



ITROOTS

we think globally

www.itroots.net

Company Profile

2019 – Q4



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About ITRoots

ITRoots is IT Solutions Company located in Egypt, established with specific objectives of becoming a leading solutions provider and re-engineering expert. We understand the challenges of the increased competition within the software industry. Thus, we offer high quality and timely solutions in a cost effective manner. Our company can also assist any organization to build the most cost effective and competitive solutions. We offer professional services in the areas of software and re-engineering consulting, development, implementation, support for large projects and products. Besides that, ITRoots considered one of the highly experienced augmented reality and GIS solutions providers in the market. That is through the GIS experienced team we employed to dominate some of the critical sectors in this market and to cope with the highly growing GIS Culture in the Egyptian and regional Market.

Innovative ideas, long-standing experience, expert knowledge, high quality, suitable pricing, in-time delivery, honesty and commitment to professional standards are the engines that drive the potential and power of our company.

ITRoots has developed an engineering organization around our extensive systems integration and solution development experience. We provide both large and small companies the ability to augment their staff with highly qualified consultants from a wide range of IT disciplines. These consultants are able to enable customer's business vision by providing technical solutions that are typically outside the realm of traditional products and services. Our Professional Services staff is able to fill in the technology and resource gaps in your organization to help achieve technical excellence at the speed of the global economy of the 21st century, And in the cases where we don't have the internal expertise to meet our customer's needs, we partner with others to provide best of breed solutions.

We are also able to offer interim solutions to long term IT needs. By doing so, we take the short-term burden away so our customers can focus on their core businesses, not technology.

ITRoots Professional Services offers a comprehensive set of solutions that range from assessments to planning, design and implementation. Our solutions are modular and adapt to a variety of environments. We make sure our solutions scale as our customer's business grows. We are sure to address the interdependencies and interoperability of our customer's complex networks and systems.

Vision

To be one of leading companies in the Middle East region providing professional software and re-engineering consulting, developing, implementation services, and highly experienced GIS solutions.

Mission Statement

Our mission is to lead the regional CIT industry by providing innovative services, value-added products and IT solutions with strong emphasis on infrastructure projects that will add value to both its shareholders and the economy. This goal can only be achieved by providing customers with a variety of solutions, precise and quality wise. We are one of the best choices in the Middle East for institutions and organizations that need software design and maintenance. We provide a state-of-art, high quality and cost effective software. ITRoots offers consulting, systems development and software re-engineering".

Our technological infrastructure enables us to undertake greatly complex projects in highly varied technological fields.

Manpower

Adding all the accumulated expertise in ITRoots, one would find two views of experience in the IT field (Software, Specialized hardware), which, has, along with our ongoing policy of top quality.

Furthermore, the academic background of ITRoots + 15 staff ranges from Bachelors to PHD degrees, while that of the technical staff essentially has a diversified engineering background including Computer Science, contingency planning, emergency preparedness, crisis management, Urban Planning, Civil, Architecture, geology and Electronics. All of this has supported our business scope of building highly specialized CIT solutions that can penetrate easily the local and the regional markets.

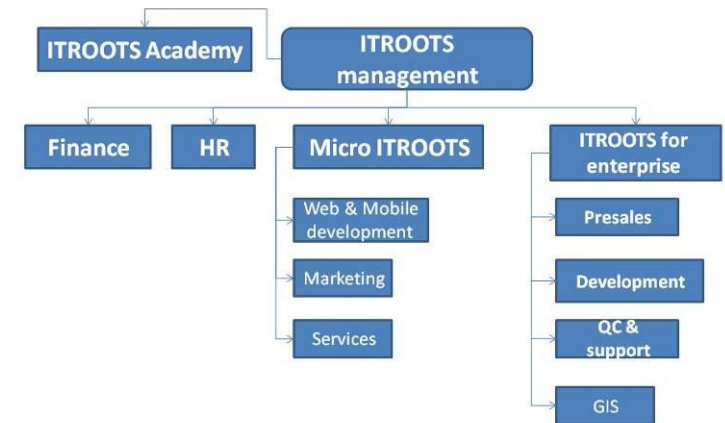
Business Strategy

In the first two years of ITRoots Life, it was mutate from a small development company to a medium size solution integrator. Moreover, as we believe in specialization and that in IT the culture and character of resources varies based on the level and nature of IT domain they working in, we adopted the strategy of creating subsidiaries based on specialization. Currently ITRoots acts as two separated subsidiaries:

- ITRoots for Enterprise, working on enterprise solutions and projects (ex. Workflow Automation, GIS Apps, SharePoint Portals, and Archiving)
- Micro ITRoots, working on small to medium projects (ex. E-Commerce Portals, Simple Mobile Apps, and Websites Development)

After training programs, we succeeded in their implementation in Egypt, Libya, and our agreement in Kuwait we are planning to have ITRoots academy as our third subsidiary.

On the other hand, ITRoots has a group of partnership agreements with a group of companies in different fields that are serving enterprise projects like the fields of survey and backlog for achieving projects.



Internal Structure

Our organization is adopting the concept of matrix organizations, therefore we have several functional departments and a technical projects department which manage the projects after being assigned to a functional team. Each project has a definite cycle through our departments starting from needs generation and assessment until delivery of the project. For this, our departments are as follows:

- **Software Development Department:** research, presales and development activities,
- **Sales and Marketing Department,**
- **Technical Support Department,**
- **Training Department,**

Partners & Representation

ITRoots is authorized reseller and business partner for local and global software, hardware and GIS data vendors that offer varieties of IT solutions:

Microsoft Partner

Gold Application Development

Microsoft Gold Application Development Partner.



The Information Technology Industry Development Agency, ITIDA, is the executive IT arm of the Ministry of Communications and Information Technology, MCIT. With local and international outreach, ITIDA plays a fundamental role as a one-stop-shop for foreign direct investors seeking to enhance their global offering using what Egypt offer and the competitive advantages of the country.

<http://www.itida.gov.eg>



“VDS technologies” founded in July 2000 as a component vendor for emerging visual development community, which capitalizes on the increasing demand for reusable objects.

<http://vdstech.com/>

Our Experience

ITRoots provides high-quality custom software development and support services. We are experienced in:

- Project Management
- Business Analysis and System Design
- Solution Development:
 - Software Re-Engineering,
 - GIS Applications (ex. GIS Portals, Tracking, Navigation, and Spatial Data Modeling),
 - Internet and Intranet applications (ex. Workflow Automation, SharePoint Portal Customization, E-Commerce, and Website Development),
 - Mobile Applications (Android, iOS and Windows Mobile),
 - CRM, especially Siebel for Public Sector,
- Archiving - especially EMC² Products -, and Backlog Operations.
- Training programs
 - Capacity Building,
 - Establish "Center of Excellence",
 - On-Job Training, for our developed solutions,
 - Technical Courses (.Net Development, and GIS training - ESRI), through our ESRI certified instructors,
 - Soft Skills and Management Skills,

The experience of ITRoots depends on two factors, the experience of the company itself and the experience of the company staff especially in the GIS field and in solution integrations. Therefore, the experience of the company and its staff combined in the following projects.

Hands on Experience



ITRoots Projects & Products

ITRoots acts as two separated subsidiaries companies:

- ITRoots, working on enterprise solutions and projects (ex. Workflow Automation, GIS Apps, SharePoint Portals, and Archiving),
- Micro ITRoots, working on small to medium projects (ex. E-Commerce Portals, Mobile Apps, and Websites Development),

ITRoots (Sample of Enterprise Projects)

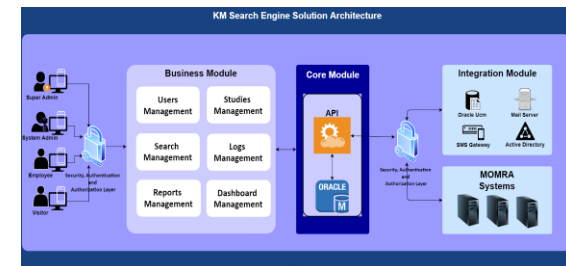
Municipal Sectors Knowledge Management

Client	Ministry of Municipal and Rural Affairs (MOMRA), (Subcontractor to Digital Geography)
Sector	Government, Saudi Arabia
Duration	18 Months
Development Platform	<ul style="list-style-type: none"> • Web: ASP.NET MVC / C#, Web APIs • Mobile Development (iOS: Swift, Android: Java) • DB: Oracle 12c • DMS: <ul style="list-style-type: none"> ○ EverSuite ○ Oracle UCM

Our Solution With the explosion of digital connectivity, government agencies all over the world are using ICT applications to increase productivity, improve accountability, enhance transparency and facilitate public sector reform. Improved knowledge management (KM) is essential to Ministry of Municipal and Rural Affairs (MOMRA) at the national, regional or local levels, because it is a knowledge-based organization. KM is also become one of the initiatives within Saudi Arabia e-Government Plans.

The key roles of ITRoots are:

- Facilitate planning of KM initiatives,
- Provide technology expertise for KM activities and solutions,
- Capture of studies, reports and lessons learnt and best practices,
- Implement document / content management systems,
- Implement enterprise portal used as search engine,



Monitoring and Follow-up the Hajj and Umrah Guests

Client	Ministry of Hajj and Umrah, (Subcontractor to CAD&GIS Co.,Ltd.)
Sector	Government, Saudi Arabia
Duration	24 Months
Development Platform	<ul style="list-style-type: none"> • Web: ASP.NET MVC / C#, Web APIs, • Mobile Development (iOS: Swift, Android: Java) • GIS: ESRI Portal For ArcGIS, • DB: Oracle 12c, • DMS: <ul style="list-style-type: none"> ○ Oracle UCM

The Ministry aims to employ the tools of transport planning, support monitoring, follow-up, Spatial operational plans with the aim of developing the transportation system of pilgrims and Umrah.

Project Scope:

- Updating and developing the Geo-Database of the system of transporting guests of Rahman, which is compatible with housing models in Mecca/Medina/Holy Sacred Sites and demographic distribution,
- Integration with plans, itineraries and packages and focus on activities (daily / seasonal) and their consequences,
- Operational plans, measures, policies, and modeling of road network optimal use,
- Building and standardizing digital templates and models for transport operational plans using modern planning techniques,
- Integration with tracking and follow-up of fleets Buses,
- Schedule the Rahman movement according to the operational plans and determine the optimal alternative,
- Raising the level of coordination with the authorities concerned with transport planning,



Dakahlia Investment Map

Client	Dakahlia Chamber of Commerce, (Prime contractor)
Sector	Government, Egypt
Duration	6 Months
Development Platform	<ul style="list-style-type: none"> • ASP.NET / C# • SQL Server • iOS • Android

Our Solution Investment Map aims to assist investment promotion and defining priority sectors for investment promotion, identifying potential investors in a given sector, identifying competitor for inward investment, and defining opportunities for investment.

Investment Map combines statistics on direct investment and national trade.

The main strength of Investment Map is the combination of different data (national trade, direct investment) into an easy-to-use, interactive Internet tool that allows analysis by city, trading partner and sector. In addition, used to identify market opportunities.

Investment Map includes information, on the location, sectors, companies, factories and stores for Dakahlia Governorate.

It Includes both Mobile application for survivors to collect filed data, and Portal for review survey output and it supports dashboards and reports for the decision maker to support the processes of taking the right decision with geographic information support.



ADA Geo Portal

Client	Royal Commission for Riyadh City, known before as “High Commission for the Development of Arriyadh (ADA)” (Subcontractor to Digital Geography)
Sector	Government, Saudi Arabia
Duration	6 Months
Development Platform	<ul style="list-style-type: none"> Portal for ArcGIS Server 10.3 Oracle 12c
Our Solution	First phase in the project was gap analysis to check the ADA data model and available GIS data and to enforce rules before publishing new data model.

Second phase, is to define collaboration and sharing data policies generalized in all ADA departments.

Finally, Portal for ArcGIS provides the same collaboration and sharing tools but in ADA secure on-site. It becomes the central repository for ADA authoritative content that only accessed by users inside the ADA. It gives them the capability to quickly and easily build maps, share these with the entire organization.

ADA keeps their content (including their own base maps and reference layers) secure behind their own firewalls. This includes sensitive data for doing confidential research or data with strict privacy controls. The administrative and account management tools provide system administrators with the ability to manage users, groups, and shared items and set user storage limitations.



Dig Electronic No Objection Certificate (Dig E-NOC)

Client Holy Makkah Municipality, (Subcontractor to Digital Geography)
Sector Government, Saudi Arabia
Duration 24 Months + 1 year support

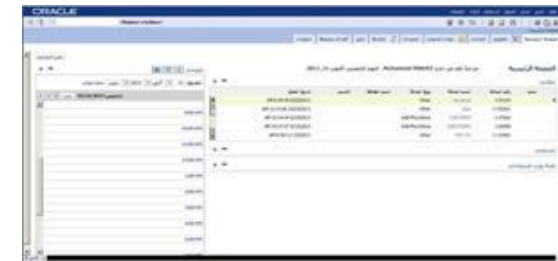
Development Platform

- Siebel Public Sector 8.2.2
- ArcGIS 10.3 for Server

Our Solution An Integrated online system developed to assist prequalified consultants, contractors and developers in obtaining Right of Way-related No Objection Certificates (NOCs) for all works undertaken within, or which may affect Makkah roads Right of Way.

The NOC system is a one-stop shop for applicants seeking No Objection Certificates as it allows them to apply for and obtain Right of Way-related NOCs online.

This system aimed at enhancing and expediting the process of issuing Right of Way-related NOCs as it is equipped with an advanced platform that allows applicants to communicate efficiently during the assessment phase. Once all requirements met and upon final approval on the application, the system will issue the No Objection Certificate on behalf of Holy Makkah Municipality.



Libya Civil Registry Authority Workflow Automation

Client	Libya Civil Registry Authority, (Subcontractor to Diwan)
Sector	Government, Libya
Duration	12 Months
Development Platform	<ul style="list-style-type: none"> • C#.NET • Oracle 11g

Our Solution An Integrated desktop application built using the SOA techniques, where business logic tier developed as web services so it invoked from any other application or different platform for future applications development or integration.

The developed system is a one-stop shop for applicants seeking:

- Birth Registration Workflows & Birth Certificates Printout,
- Death Registration Workflows & Death Certificates Printout,
- Marriage Registration Workflows & Marriage Certificates Printout,
- Divorce Registration Workflows & Divorce Certificates Printout,
- Transfer from one office to another in different city/district Workflows,
- Search for Person, Family, or Operation,
- Family Tree Printout,
- Reports (Statistical, Operational, Users, Personals, and Family),
- GIS Module, act as a reliable tool for decision making, especially in distribution of services related to population,



ITRoots (Sample of Backlog projects)

Libyan Civil Registry Documents Archiving

Client	Libya Civil Registry Authority, (Subcontractor to Diwan)
Sector	Government, Libya
Duration	18 Months
Development Platform	<ul style="list-style-type: none"> • EMC Documentum & Captiva • Oracle 11g



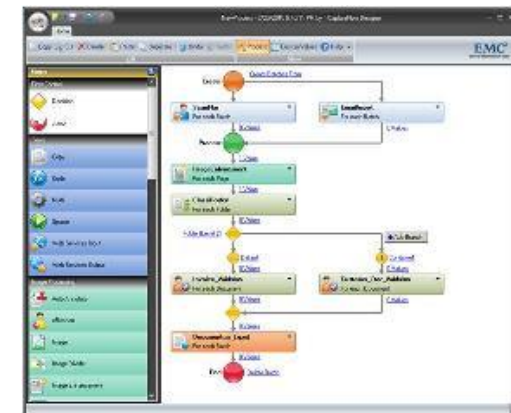
Our Solution The system delivers a comprehensive and integrated solution for content management activities. The power of the solution is the combination of the functional platform of Documentum, coupled with the configurations of the system for Libya Civil Registry Authority.

The solution developed around LCRA building a centralized document repository infrastructure that is setup with the proper taxonomy for the relevant document types managed; the proper access control lists for governing the security and confidentiality of information and the right processes to designed to manage the flow of documents between the branches and LCRA's central operations.

All offices have access to a centralized Documentum repository, which holds all of their relevant internal documents. Each remote office has private information placeholders, which helps them preserve the security around their information until they decide to share it.

Number of Documents: 75,000,000.

Number of Concurrent Users: 700.



Backlog Scanning and Document Management Services

Client	Qaliubiya Pharmacists Syndicate, (Prime contractor)
Sector	Civil Society NGOs, Egypt
Duration	9 Months
Development Platform	<ul style="list-style-type: none"> • ASP.NET MVC • SQL Server



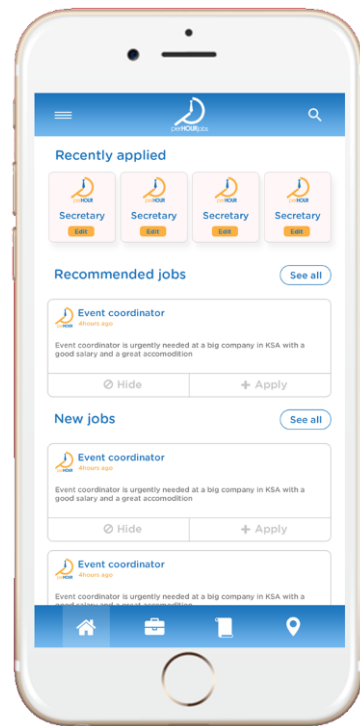
Our Solution

The solution provided is mainly three phases:

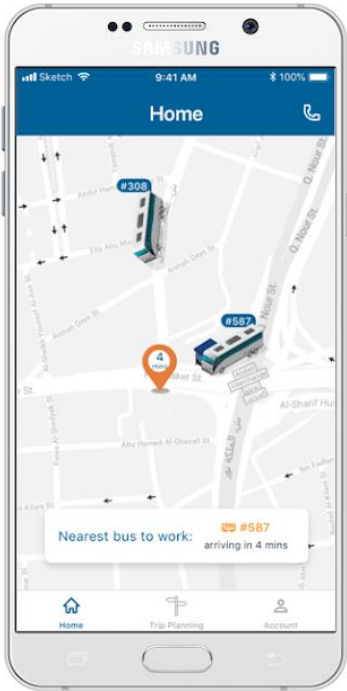
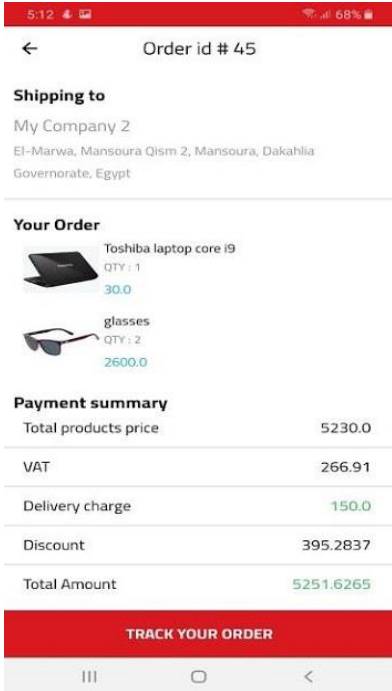
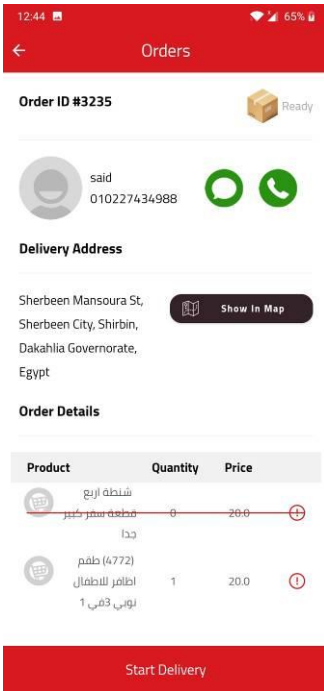
- Phase I**, install and configure documents management system inside Qaliubiya pharmacists syndicate, train the system administrator, stuff and technical support team to operate the system,
- Phase II**, Backlog of three millions documents with the following processes:
 - Receiving Files,
 - Dispatching,
 - Scanning,
 - Indexing,
 - Quality Control,
 - Rejected Files,
 - Submitting Files,
- Phase III**, Tracking system that allows managers to follow up daily work of backlog,

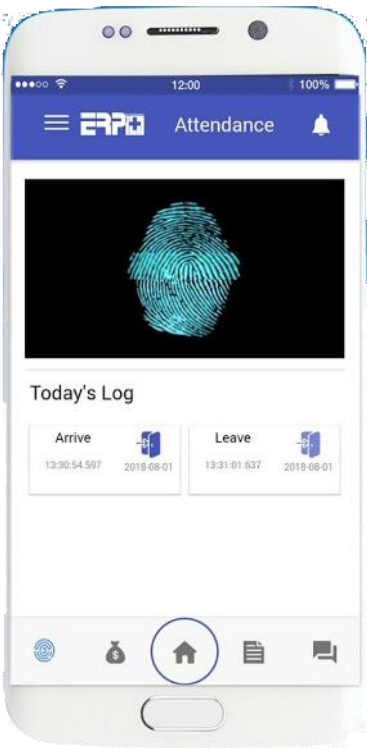
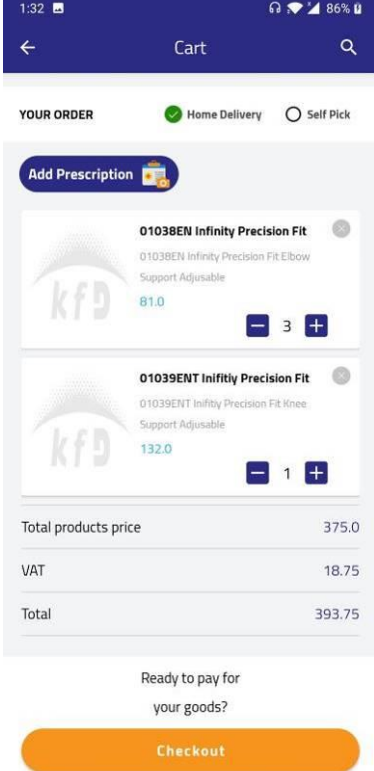
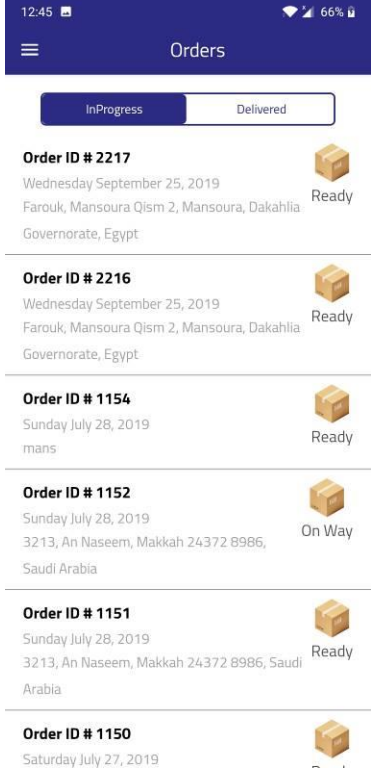


ITRoots (Sample of Mobile Apps)



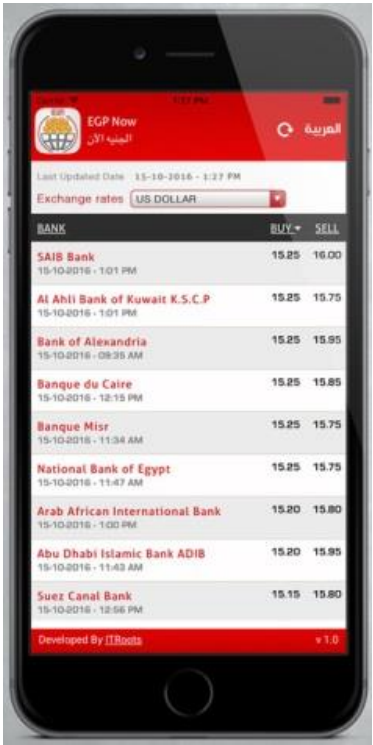
Maps & Navigation, Saudi Arabia Hajj Traffic, Traffic Maps for Hajj	Shopping, Saudi Arabia Khashm, Discount Coupons	Business, Saudi PerHourJobs, Freelance Jobs
		
Subcontractor to: CAD&GIS Co. Ltd	Prime Contractor	Prime Contractor
Client: Saudi General Directorate of Public Security General Department of Traffic	Client: My Daily Needs for IT	Client: PerHour
Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server, 	Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL,
Download: App Store or Google Play or website: http://www.hajjtraffic.com/	Download: App Store or Google Play	Download: App Store or Google Play

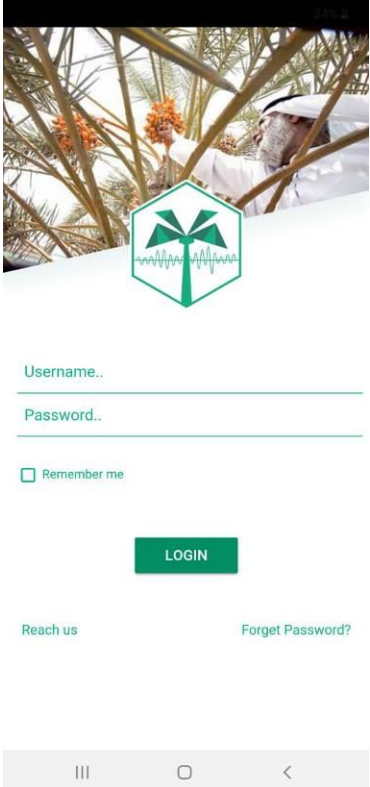


Medical, Egypt Aldoctor, Medical Services On Demand	eCommerce, UAE Aladdin Partner, Services Voice Order	eCommerce, Saudi Arabia Aghnam Elreef, Fresh Meat Delivery
		
Prime Contractor	Subcontractor to: Nakheel.io	Subcontractor to: CloudSoft5
Client: Al-Doctor App	Client: Aladdin World	Client: Aghnam El Reef App
Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (Android: Java), • Backend: Amazon Web Services (AWS), 	Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PrestaShop), • DB: MySQL,
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Maps & Navigation, Jordan Autobus, Public Transport Routes	eCommerce, Saudi GOOT: Shop Online Grocery	Maps & Navigation, Saudi Arabia GOOT Captain: Delivery Application
		
Subcontractor to: Nabdaa	Prime Contractor	Prime Contractor
Client: Comprehensive Multiple Transportation Co.(CMTC, AutoBus)	Client: Marei Bin Mahfouz Group	Client: Marei Bin Mahfouz Group
Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (iOS: Swift and Android: Java), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (Android: Java), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server,
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Business, Egypt ERP+: Attendance System	eCommerce, Saudi KFD: Online Pharmacy	Maps & Navigation, Saudi Arabia KFD Captain: Delivery Application
		
Prime Contractor	Prime Contractor	Prime Contractor
Client: CloudSoft5	Client: Marei Bin Mahfouz Group	Client: Marei Bin Mahfouz Group
Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (iOS: Swift and Android: Java), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (Android: Java), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server,
Download: App Store or Google Play	Download: App Store or Google Play	Download: App Store or Google Play

Business, United Kingdom iPest: Rodent Monitoring IOT Solution	eCommerce, Saudi Aldahayan Auto: Cars Catalog & Services	Shopping, Saudi Arabia Makady (مقاضي): Saudi Offers
		
Subcontractor to: Nakheel.io	Prime Contractor	Prime Contractor
Client: Russell IoT	Client: Aldahayan Cars	Client: Digital Region
Technologies: <ul style="list-style-type: none"> Frontend: Ionic Hybrid (iOS and Android), Backend: Amazon Web Services (AWS), 	Technologies: <ul style="list-style-type: none"> Frontend: Ionic Hybrid (iOS and Android), Backend: PHP (PHP larval), DB: MySQL, 	Technologies: <ul style="list-style-type: none"> Frontend: Ionic Hybrid (iOS and Android), Backend: PHP (PHP larval), DB: MySQL,
Download: App Store or Google Play	Download: App Store or Google Play	Download: App Store or Google Play

Shopping, Egypt Wfr (خصوصات مصر): Egypt Offers	eCommerce, Saudi Strawberry: Vegetables and Fruits Store	Finance, World Wide EGP Now: Egyptian Pound Exchange Rate
		
Prime Contractor	Subcontractor to: Nabdaa	Prime Contractor
Client: Public	Client: Strawberry Trading Company	Client: Public
Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (iOS: objective-c and Android: Java), • Backend: PHP (PrestaShop), • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server,
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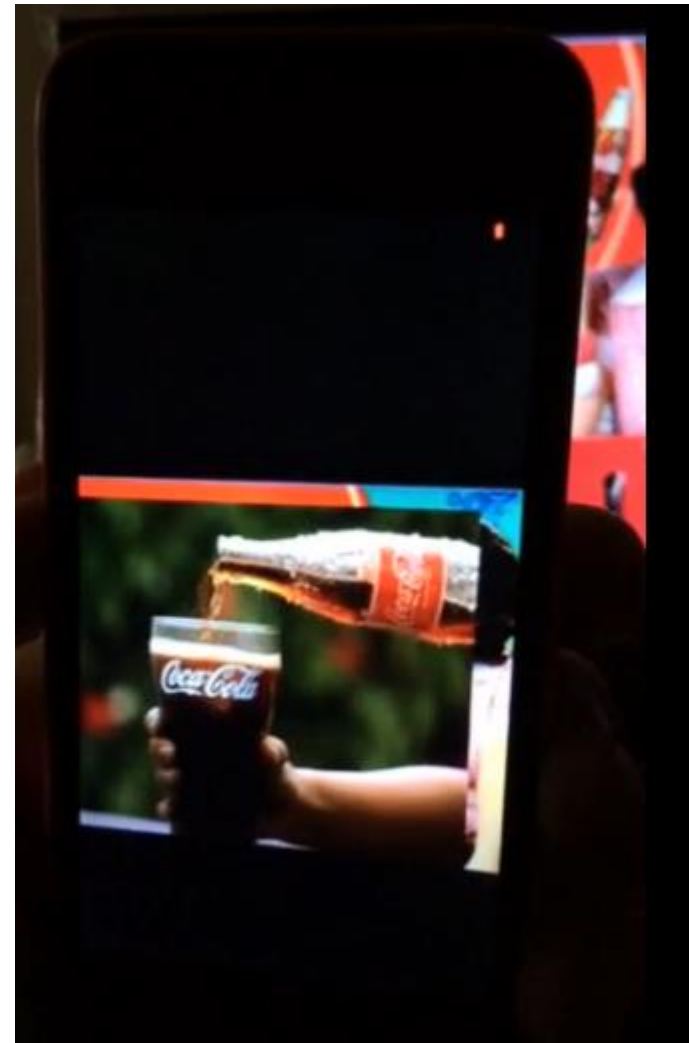
Business, Egypt Nakheel: Cognitive Palm IOT Solution	Lifestyle, Saudi Kawa3b: Online Pharmacy	Business, Saudi Arabia KPOS: Point of Sale (POS)
		
Prime Contractor	Prime Contractor	Prime Contractor
Client: Nakheel.io	Client: Rumman Technology Company Ltd	Client: Rumman Technology Company Ltd
Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval) + AWS, • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL,
Not Published at Stores based on client's request	Download: App Store or Google Play	Download: App Store or Google Play

Education, Saudi Arabia Umm al-Qura University Student Affairs	Social Network, Saudi Arabia Vote Me: Online Poll Apps and Social Media	Finance, World Wide Protect Masr: Citizens' Complaints
		
Subcontractor to: First Tent	Subcontractor to: Mqyes Al-Deka	Prime Contractor
Client: Umm Al Qura University	Client: Public	Client: Egyptian Ministry of Communications and Information Technology (MCIT)
Technologies: <ul style="list-style-type: none"> • Frontend: Ionic Hybrid (iOS and Android), • Backend: PHP (PHP larval), • DB: MySQL, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (iOS: objective-c), • Backend: PHP (PHP larval), • DB: Neo4j, Graph Database, 	Technologies: <ul style="list-style-type: none"> • Frontend Native (iOS: objective-c), • Backend: .NET (ASP.NET MVC), • DB: MS SQL Server,
Download: App Store or Google Play	Download: App Store	Not Published at App Store based on client's request

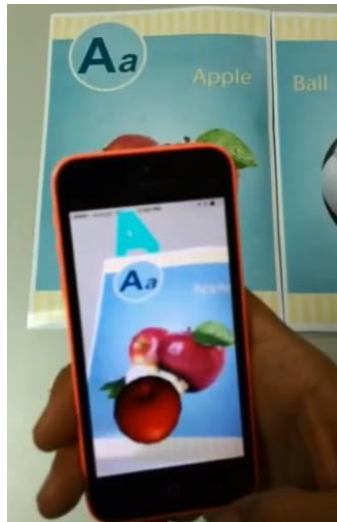
ITRoots (Sample of Augmented Reality Projects)

Media and Advertisement

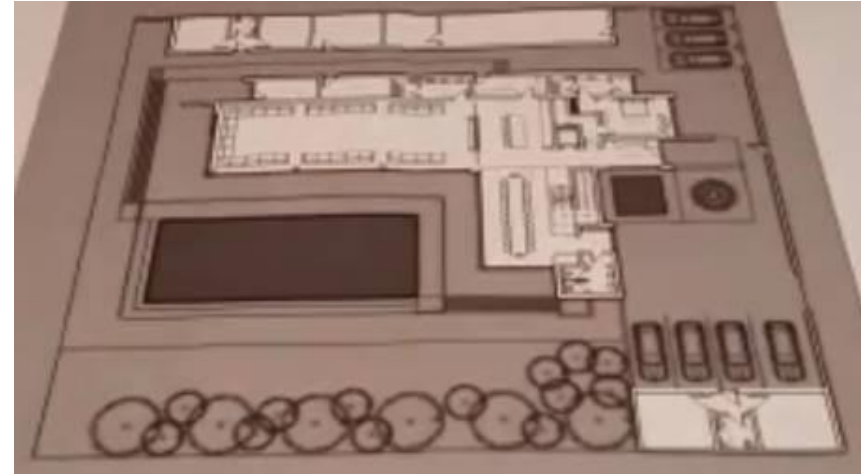




Education



Real-estate



ITRoots (Sample Localization Projects)

Next ESA SAR Toolbox (NEST) Localization

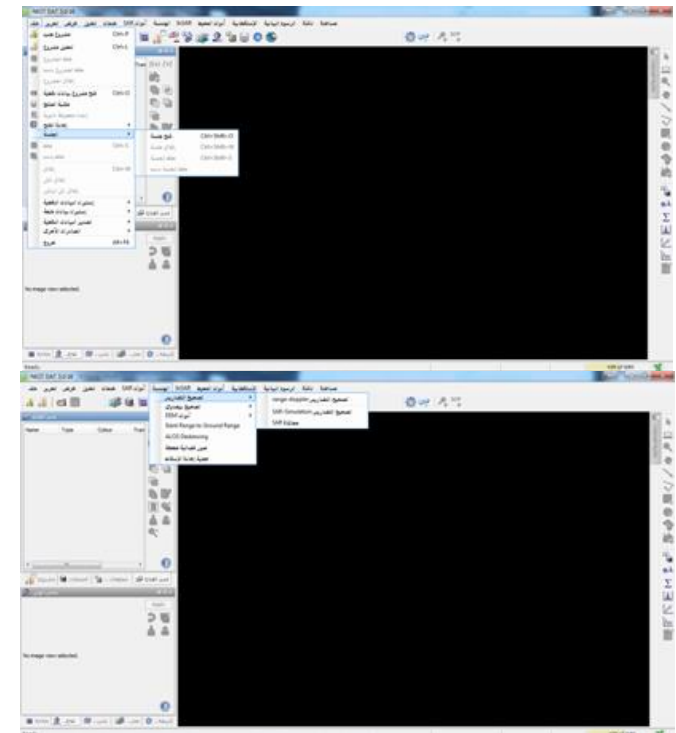
Client	King Abdulaziz City for Science and Technology (KACST)
Sector	Government, Saudi Arabia
Duration	2 Months
Development Platform	<ul style="list-style-type: none"> J2SE

Our Solution The Next ESA SAR Toolbox (NEST) is an ESA open source toolbox under the GNU GPL license for reading, processing, analyzing and visualizing ESA (ERS-1/2, ENVISAT, SENTINEL-1) and other spaceborne* (TerraSAR-X, RADARSAT 1-2, COSMO-SkyMed, JERS-1, ALOS PALSAR) SAR data processed to Level-1 or higher.

ITRoots localize this product to support space & aviation science in Arabic language.

ITRoots Role:

- Localize application to support Arabic.
- Create setup package.



E-Learning Management System (LMS) Testing & Localization

Client DUNET
Sector Education Private Sector, South Korea
Duration 6 Months

Development Platform

- J2EE
- Oracle 11g

Our Solution This system helps efficiently manage learning resources such as course, progress report, attendance, evaluation and so on.

Through various experiences from lots of projects, it provides the most suitable system. It provides the most appropriate services depending on user type such as student, professor, and administrator.

ITRoots Role:

- Application Testing.
- Fix Bugs reported in testing.
- Add Right-to-Left Feature.
- Add Resource Files techniques, to support Multi-Language.
- Create the Arabic Resource File.



ITRoots (Sample Products)

GeoBank

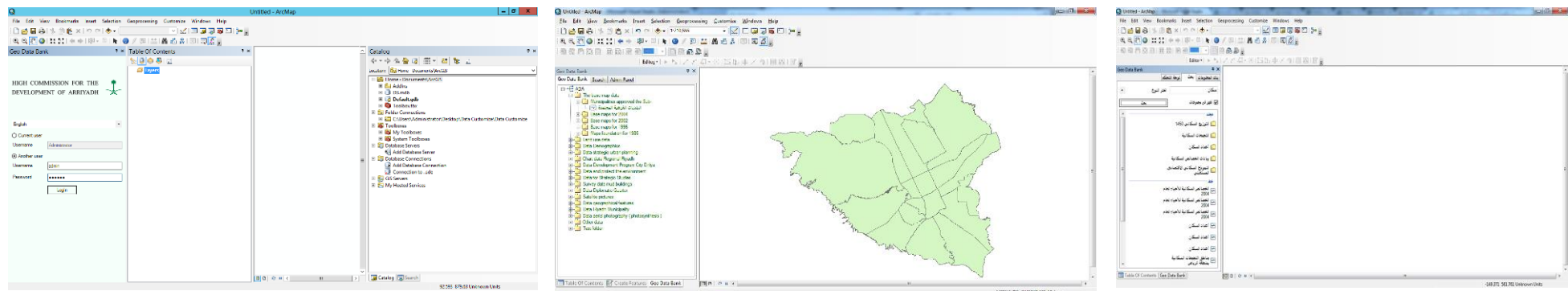
Developed as ESRI extension to ArcGIS for Desktop (Supported versions ArcGIS 10.x).

Main features:

1. ESRI extension, which leads to have updates and batches due to business needs
2. Hide server connection parameters to disable direct access to GIS data source (ex. SDE)
3. Allow administrator to have a logical structure of the data, which is easy for user and hide complicated physical database design
4. Enhance security control; Avoid limitation of applying security level on physical dataset and allow administrator can give user permission on feature class level
5. Support multi-level administration authority, (ex. organization may have super admin and administrator for each department)
6. Support multi-language: Administrator is able to add language and all forms content translated using Google translation service with ability to modify it; application installed with both English and Arabic language packs
7. Powerful search engine, allow user to search for layer using layer name, description and metadata keywords (in any language)
8. Dashboard and reports enable system administrators and decision makers to track the usage of the data
9. Centralize look and feel of GIS data through prepared layer files published by administrators
10. Integration with organization's Active Directory



Clients: High Commission for the Development of Arriyadh, Saudi Arabia



Note: Application copyrights registered please refer to section "Certificate of Copyright Registration"

GEO ETL (Extract – Transform - Load)

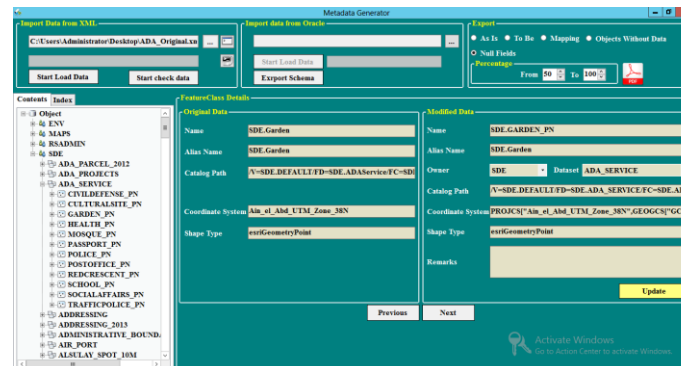
Used to automate data migration, and to modify data model with ability to show mapping between old and new data model, and generate python script to transfer data from old data model to new data model.

Main features:

1. Connect to SDE exported XML schema, and compare it to Oracle.
2. Show data model in tree, with the same look and feel of ESRI ArcGIS for Desktop.
3. Modify schema (Add/Update/Delete).
4. Automatically remove empty objects from old data model.
5. Check schema, to examine if it violate rules implemented in objects' naming (ex. objects' name not in English or objects' name contains special characters).
6. Powerful search engine to find any objects in the data model.
7. Generate PDF Reports:
 - a. As-Is Data Model (Old Data Model), which shows Feature/ Tables metadata, Columns definition, Indexes and relations
 - b. To-Be the As-Is data model after applying user's modifications
 - c. Mapping report, which summarize the modifications done on the data model and map between new and old data model
 - d. List with all Features/Tables that are empty
 - e. List with all columns that are null value

Clients: High Commission for the Development of Arriyadh, Saudi Arabia

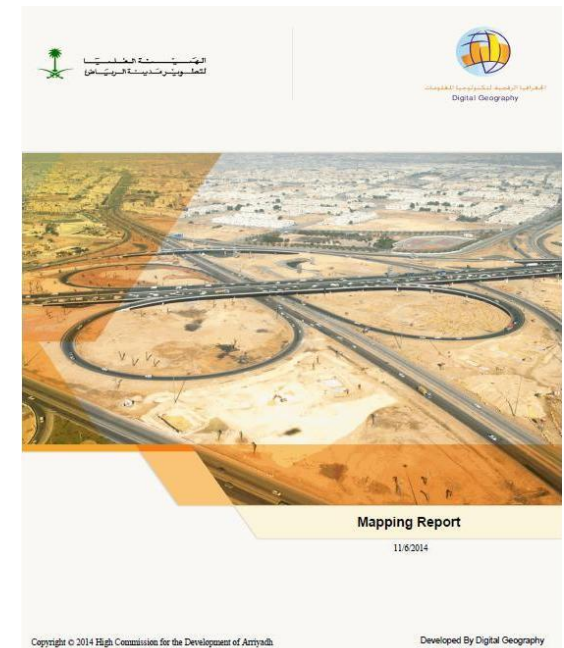
Note: Application copyrights registered please refer to section "Certificate of Copyright Registration"



Login data

Username

Password



Correspondence Tracking and Management System

Development Platform

- ASP.NET-MVC / C#
- DB: Oracle or MS SQL Server

Our Solution

Implemented as web solution to make it an easy task to connect from wherever with only web browser

Main features:

- All basic correspondence tracking features, including:
 - All correspondence organized into electronic folders
 - Folders contain: coversheet, assignments, and notes
 - Correspondence classified by user designed categories
 - Assignments classified by user designed actions
 - Dates tracked:
 - correspondence received/written
 - correspondence due (overall for entire folder)
 - correspondence folder completed/closed
 - assignment made
 - assignment due / assignment completed
 - ability to search folders, assignments, notes
 - ability to query by combinations of search keys
 - database of "standard" correspondents
- Unlimited correspondence folders / assignments per correspondence item/extended notes per correspondence item/"regular" correspondents and "one-time" correspondents,
- Security features:
 - Add a watermark on each opened document with User ID,
 - Allow/deny print/download attachments,
- Standard reports on open/past due/completed correspondence/completed assignments.



Client:

Royal Commission for Riyadh City, known before as "High Commission for the Development of Arriyadh (ADA)".

Fleet Management System (AVL Tracking System)

The system consists of two functional parts:

- **Surveillance Portal**
A real-time tracking display of vehicle locations on Map, locations of vehicles and all relevant other data received in the data records monitored online. The update frequency of the system is user definable and is always in real time. It allows multiple user access and permits each user to function independently of the others, while ensuring that the information displayed on each user's screen is current and synchronized with all other users. Each standard PC logged in using standard browser technology is able to monitor all or a grouped sub-set of the devices. There is no practical limit to the number of vehicles monitored and displayed.
- **Administration Module**
A centralized administration capability provided to allow a supervisor to create and maintain an asset inventory of vehicles and equipment; and supports associating and editing of unlimited attributes for agency vehicles, personnel and equipment. It also allows system administrators to implement security by configuring the system to allow only authorized personnel to access the system.

Product supports:

- Full Screen Display Mode (Responsive Design)
- Choose Theme

- Multi-language mode (with no limit, and supports both Right-to-Left and Left-to-Right layouts). When logging in (username, password) the stored user settings including language are selected.

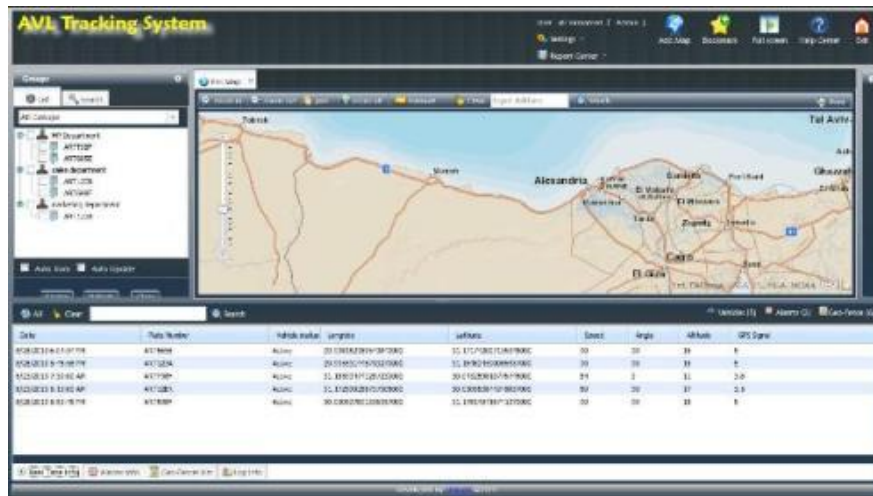


Figure 1 English Layout

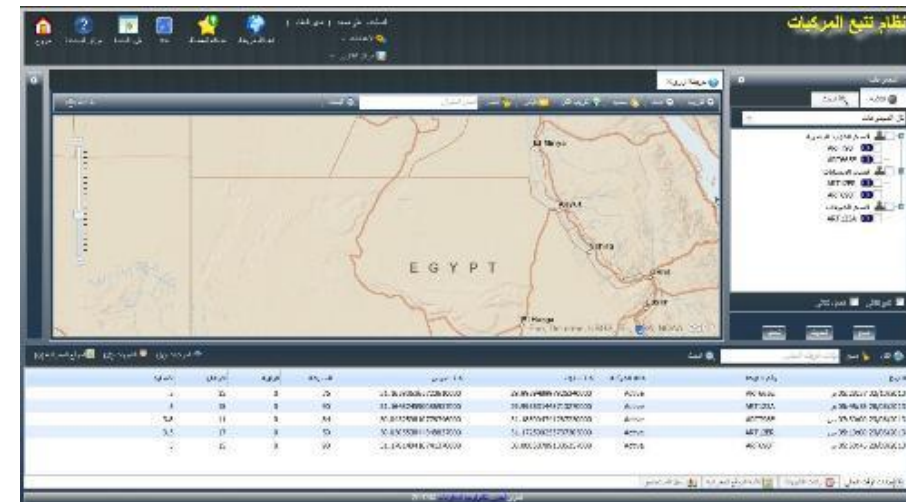


Figure 2 Arabic Layout

- Basic GIS Functions:
 - Zoom in/Out, Pan, and full extent.
 - Print.
 - Measurement Toolbox
 - Clear Map.
- Search Operations:
 - Search for a City/Governorate/District.
 - Search for a street.
 - Search for a service/landmark.
 - Search for location of a specific vehicle.
- Geo-Book Mark Module



Figure 3 Search Result

- Tracking Options:
 - One Vehicle Tracking
 - Multi-Vehicles Tracking
 - Re-Play Tracking History.

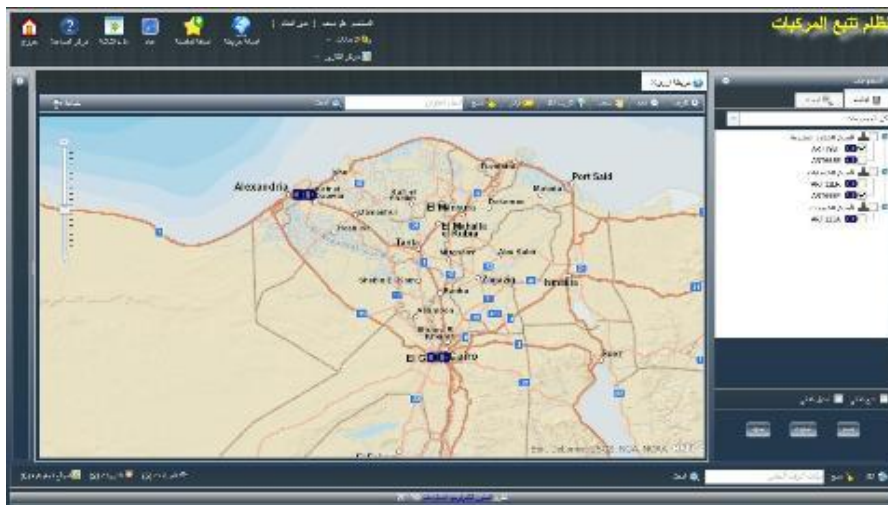


Figure 4 Multi-Vehicles Tracking



Figure 5 Re-Play Tracking History

Notify user through showing alert at the web page, and sending email/SMS when:

- Exceeding the speed limit
- Enter/Exit of the Geo-Fence defined.
- Other alerts defined based on the GPS device feature (ex. vehicle battery, seat belt ...etc).
- Geo-Fence Alert Module:
 - Alert if In/Out Geo-Fence
 - Edit Geo-Fence boundary easily.

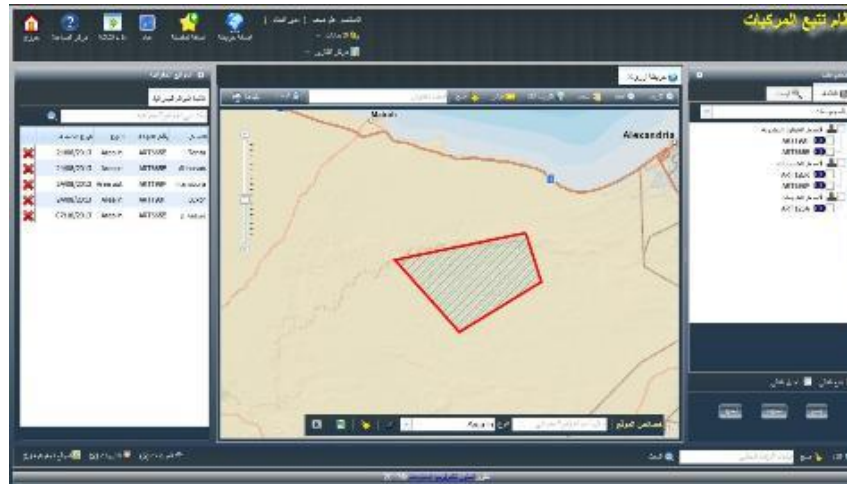


Figure 6 Draw Geo-Fence

- Reports & Charts:
 - Access daily or monthly driving reports for the last three months
 - Standard periodical reporting:
 - Total time traveled (per trip, period).
 - Maximum recorded speed (per trip, period).
 - Average recorded speed (per trip, period).
 - Trip Details Report
 - Exception reporting
 - List of speeding (device, driver, location, speed) per group/period
 - List of Geo-Fence violations (device, driver, location) per group/period

4S (Automotive Industry ERP)

4S is an ERP system to support the main modules of automotive industry, which are Sales, Service (after-sales), Spare Parts & Survey (information feedback to various auto manufacturers).

Main Modules:

1. Sales management includes vehicle sales and vehicle purchase management. It covers functions for insurance and leasing operations, vehicle trade-in, warranty and pre-delivery inspection (PDI) management and web shop management.
2. Service management provides service offer management, service scheduling and time tracking. The system has integrated bar code function. Manage multiple location services, external services and field services. Set up service packages for service operations. Service management function provides service history management and service works warranty management.
3. Spare part management combines functions spare part dealer might need ex. spare part trade management, sales order management and sales budget management. It provides non-stock catalogue integration, item substitution, item booking and bar codes to manage spare parts. Mobile compatible DMS system allows using mobile devices for mobile sales. Integrated POS & cash and e-commerce function allows spare part sales management both at shop and online,
4. Customer relationship management (CRM) for automotive industry in 4S includes CRM functions like loyalty management, contact management, task management and sales opportunity management. Automotive CRM function supports full marketing, pricing & discounting possibilities. Solution offers SMS management and Mobile CRM that allows access to the system from mobile devices.
5. Finance management includes fixed asset management, human recourse (HR) & Payroll management, cash management and bank account management. It covers any accounting and taxation processes and lets to set and control financial budgets. For international automotive business, 4S ERP allows to manage multiple currency deals and run multi-company business,
6. Inventory management for automotive business in 4S consists of functions like spare part budgeting, automatic spare part replenishment and centralized spare part purchasing. Solution also includes warehouse management (WMS) and bin management for automotive industry. Inventory management supports multiple stock location management. Access data by using any mobile device.
7. Business intelligence (BI) and reporting tools for automotive industry in 4S ensures spare part reports, inventory reports as well purchase, finance and service reports. Use mobile devices and get mobile reporting for automotive business. 4S BI and reporting function includes sales & loyalty management and intrastate reports.

Clients:

- Aldahayan Cars,

[illegible]

بحث في القيود اليومية									
رقم قيد المحاسبي	تاريخ قيد المحاسبي	تاريخ قيد اليومية	أستاذة	رقم القيد	الحد اليومي	الحد	الحد اليومي	الحد	النسبة
13568	قيد يومية عادية	21/03/2018	ali.saqr	21-03	252	848.98	252	848.98	252
13567	قيد يومية عادية	17/03/2018	husein	03-2018	739	650.00	739	650.00	739
13566	قيد يومية عادية	25/03/2018	husein	03-2018	1704	10000.00	1704	10000.00	1704
13565	قيد يومية عادية	22/03/2018	ali.saqr	22-03	3772	23.75	3772	23.75	3772
13564	قيد يومية عادية	22/03/2018	husein	03-2018	227	5500.00	227	5500.00	227
13563	قيد يومية عادية	21/03/2018	ali.saqr	21-03	513	224.35	513	224.35	513
13562	قيد يومية عادية	21/03/2018	ali.saqr	21-03	863	3115.85	863	3115.85	863
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المبالغ المستحقة									
#	التاريخ	المبلغ	الخدمة	الفرع	المعمل / العميل	الرجوع	التعليقات		
105103	22/07/2019	662.000	تم الفرجان	الحسين	عميل نادي افصح حيران	نادي			
105102	22/07/2019	662.000	تم الفرجان	الحسين	عميل نادي افصح حيران	نادي			
105101	22/07/2019	1324.000	تم الفرجان	الحسين	عميل نادي افصح حيران	نادي			
105100	22/07/2019	1324.000	تم الفرجان	الحسين	عميل نادي افصح حيران	نادي			
105099	25/03/2018	25.000	تم الفرجان	الحسين	عميل نادي افصح حيران	نادي			
105098	25/03/2018	570.500	تم الفرجان	الحسين	عميل نادي افصح حيران	بطولة الانعام			
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105096	25/03/2018	210.000	تم الفرجان	الحسين	عميل نادي افصح حيران	بطولة الانعام			
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105093	25/03/2018	210.000	تم الفرجان	الحسين	عميل نادي افصح حيران	نادي			

Admin
المدينة
تغيير الفرع
Dahayan - ERP

بحث بواسطة
بحث

الخصم المدين

الرقم	التاريخ	القيمة	العملة	الفرع	المدين	طريقة الدفع	الحالت
110134	18/09/2019	250.000	ل.س.م	المدين	Abdul Latif Jameel credit	نقدى	م
110132	31/07/2017	13280.000	ل.س.م	المدين	ALJ RIYADH CASH	نقدى	م
110128	04/03/2017	0.050	ل.س.م	المدين	Bank Pety Cash	نقدى	م
110098	30/11/2016	3255190.100	ل.س.م	المدين	Abdul Latif Jameel credit	نقدى	م

الأول
المدينة
1
شالي
الأخر

iSignage Pro

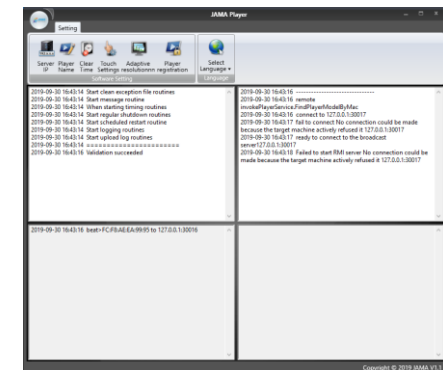
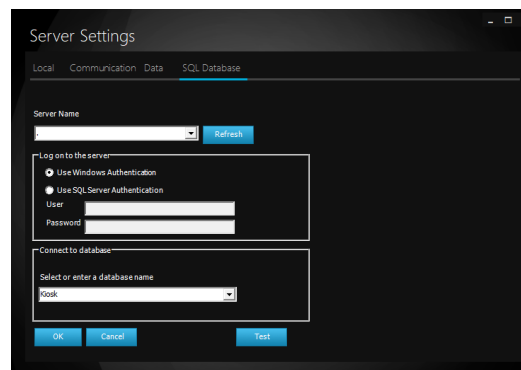
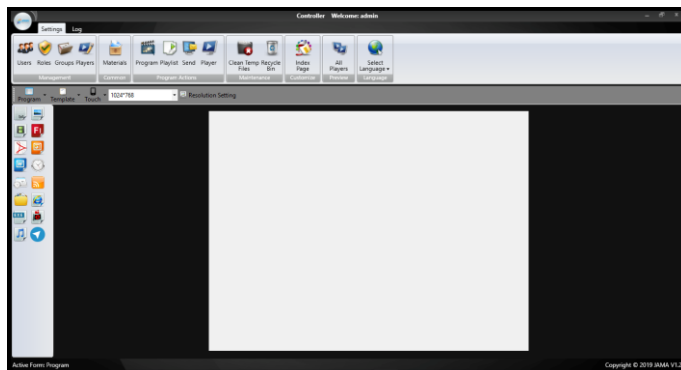
iSignage Pro platform used for creating, deploying, measuring, and managing interactive digital experiences. Create amazing highly functional multi-touch applications for any screen and any audience in record time, without coding. Powers your screen with dynamic content, which instantly engages your target viewers. With iSignage Pro you can create, design and schedule content easily, no matter how far away you are from your screens. Use attention-grabbing media like videos, images, PDF files, Office docs, data dashboards and social media to get your message across to the people that matter most to your business.

Main features:

1. Distribute content and ads across a network of any size with automated digital signage software.
2. Empower local teams to easily display beautiful custom digital signage messages with template-based content management,
3. Automated scheduling for easy messaging,
4. Little training required, any user could quickly create and display unique content on their screens, no technical or design skills required,
5. Accurate insight into your screens, make informed decisions about what appeared on your screens with details about each player on your network,
6. build a successful digital signage network,
7. Integration with organization's Active Directory,

Clients:

- First Tent, Saudi Arabia,
- ESCL, Saudi Arabia,



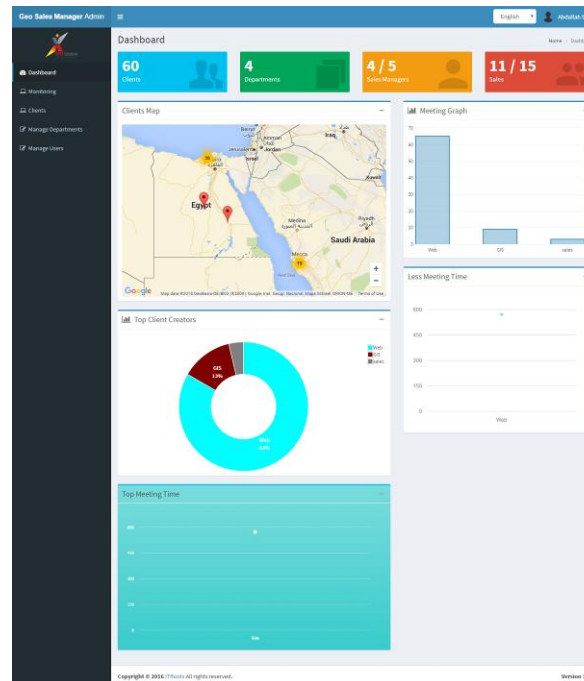
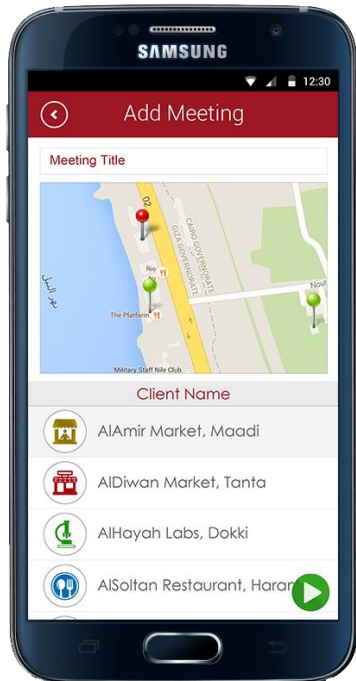
Geo Sales Manager - Sales Force E-Supervisor (SFES) Solutions

Provide a range of tools to manage salespeople most effectively. With visibility over the movements of your sales force territories will managed more efficiently, fuel expenses controlled and productivity increased.

With the increasing demands on a business to provide effective monitoring of work-related road safety, the solution monitors distances driven and speeding. In addition knowing where your salespeople are during the working day via mobile phone tracking provides the same level of protection as lone worker solutions. Access to this information allows the implementation of Health & Safety across the whole organization.



For more information, visit website: <https://www.geosalesmanager.com>



Note: Application copyrights registered, please refer to section "Certificate of Copyright Registration"

ITRoots Academy (Enterprise Capacity Building)

1000 Employee Training

Client Libya Ministry of Interior
Sector Government, Libya



Our Solution ITRoots roles:

- Study the Organization Chart, and review the employees' titles & educational records.
- Interview Employees to define organization Skills Matrix
- Define Training Programs
- Start Courses for 1000 Employees in different four cities
- Evaluate the attendees

Courses Tracks:

- Software Development
- System Administration
- GIS Basic Courses
- Soft Skills
- Management Skills
- Planning Courses
- Human Resources Courses
- Financial Courses
- Quality Control
- ICDL



Kuwait Municipality GIS Training

Client Kuwait Municipality
Sector Government, Kuwait



Kuwait Municipality

Our Solution ITRoots roles:

- Introduction of GIS and field's teams management and determine courses of action and raise the construction sites and irregularities

Courses Tracks:

- Introduction to GIS
- Data model design & building physical model
- Configure workflows and irregularities and construction sites classified maps
- Routes for Raising work and construction sites and irregularities paths
- GIS analytical tools in the distribution and management of teams and identifying and controlling best routes
- The publication, circulation and provide geographic data for each of the projects and irregularities and filed teams

Micro ITRoots (Sample Projects)

E-Gov

Holy Makkah Municipality Forum (Website, Attendance System on Touch Screens, Certificates of Attendance Print Out)





E-Commerce

eCommerce, Order Food Online, Egypt

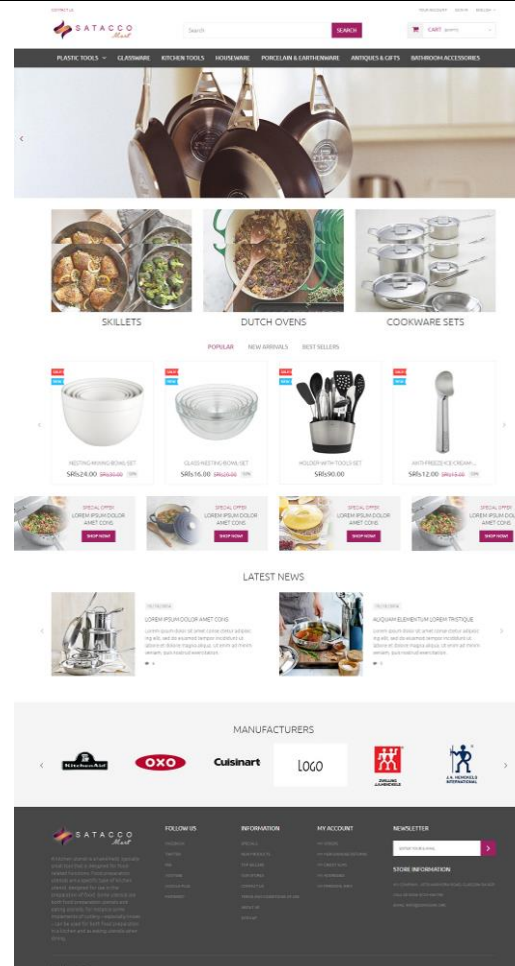


Prime Contractor

Client: French Fries Restaurant

URL: <http://frenchfries-eg.com/>

eCommerce, Kitchenware, Saudi Arabia

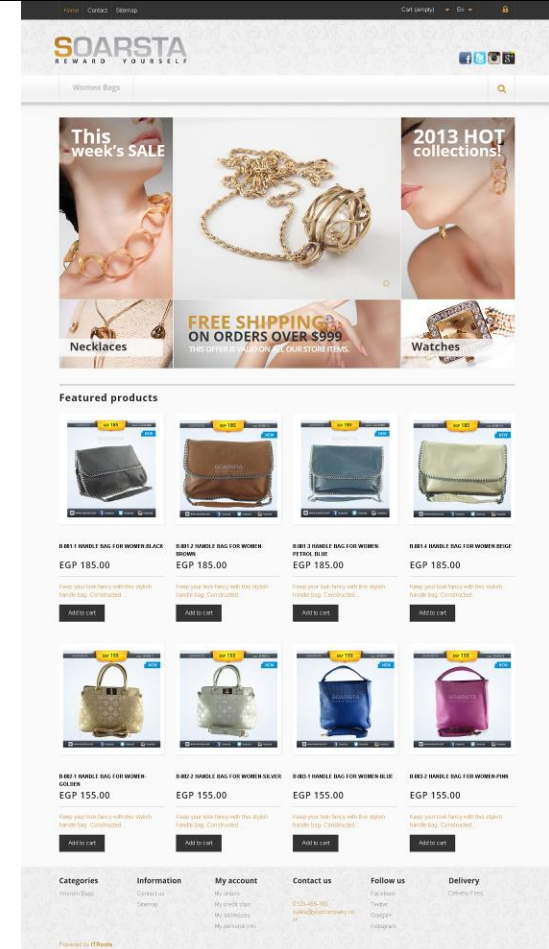


Prime Contractor

Client: SAM Arabia

URL: <http://www.sataccomart.com/>

eCommerce, Ladies Fashion, Egypt

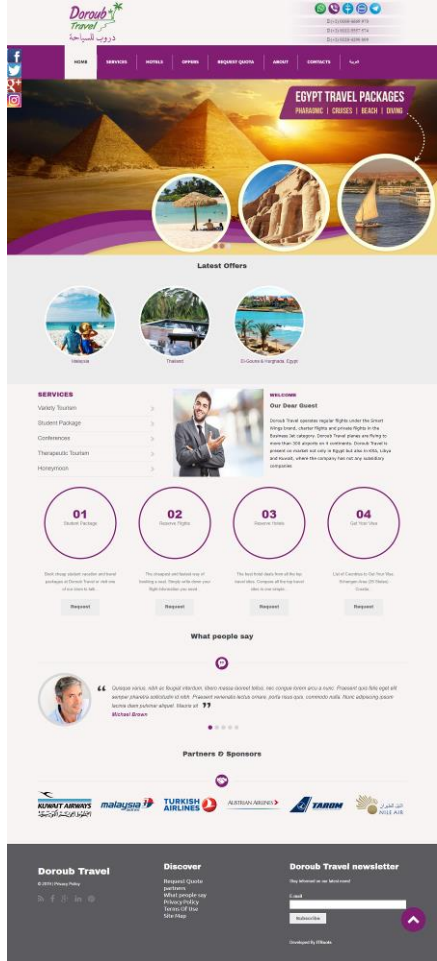
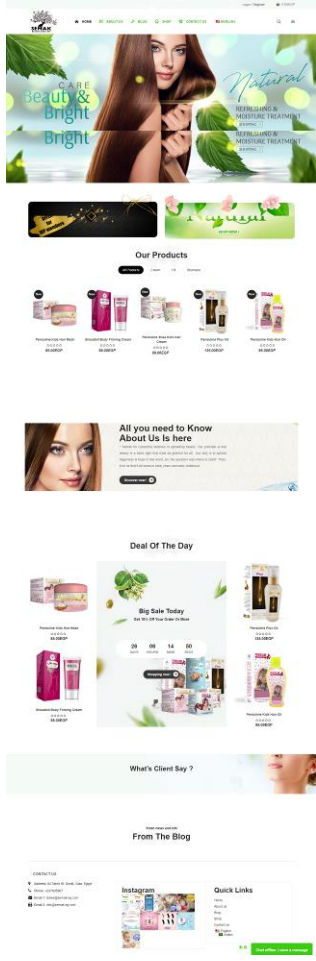



Prime Contractor

Client: Soarsta Bags & Accessories

URL: <http://www.soarsta.com/>

Business Website

Tourism Agency, Egypt	eCommerce, Cosmetics, Egypt	Business Consultation, Saudi Arabia
		
Prime Contractor Client: Doroub Travel. URL: http://www.doroubtravel.com/	Prime Contractor Client: SEMAK URL: http://www.semak-eg.com/	Subcontractor to: ISOTEC Client: CANPEL URL: http://canpelco.com/

Tourism Agency, Saudi Arabia



تأشيرتك على بُعد خطوة من اتصالك

إن إجراءات السفر تحتاج تخطيطاً ودراية

فالمفكر من الدول تتطلب تأشيرة دخول، "ألوو فيزا" يوفر لك كل ما تحتاجه لإنهاء إجراءات تأشيرتك

كل ما عليك هو اختيار الوجهة المطلوبة ودع الباقي لنا فهذا هو اختصاصنا

دعونا نساعدك، والتأشير @ ألوو فيزا 2019 جميع الحقوق محفوظة. | تطوير شركة ألوو فيزا

Subcontractor to: ISOTEC

Client: Aloo Visa

URL: <http://aloovisa.com/>

Umrah Service Provider, Saudi Arabia

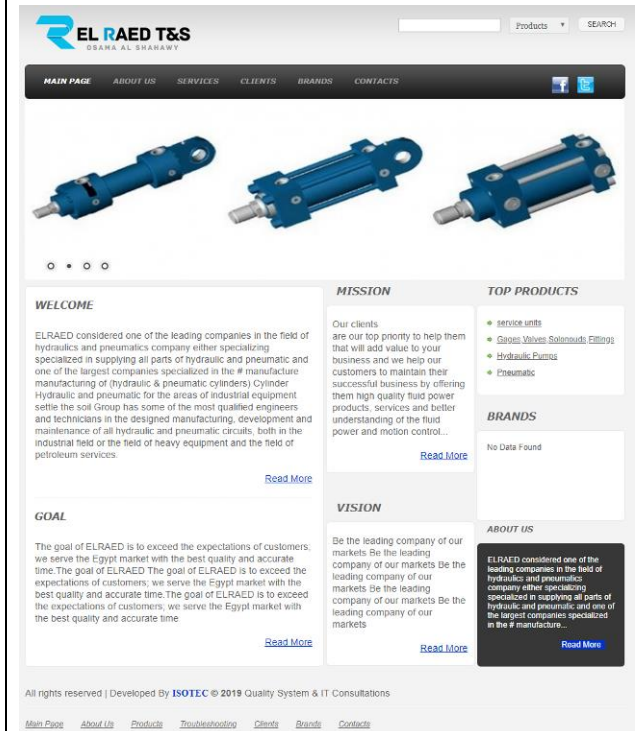


Subcontractor to: ISOTEC

Client: Azowar Umrah Services company

URL: <http://azowar.com/>

Hydraulics & Pneumatics, Saudi Arabia



Subcontractor to: ISOTEC

Client: El-Raed co.

URL: <http://elraedco.com/>

Personal Website

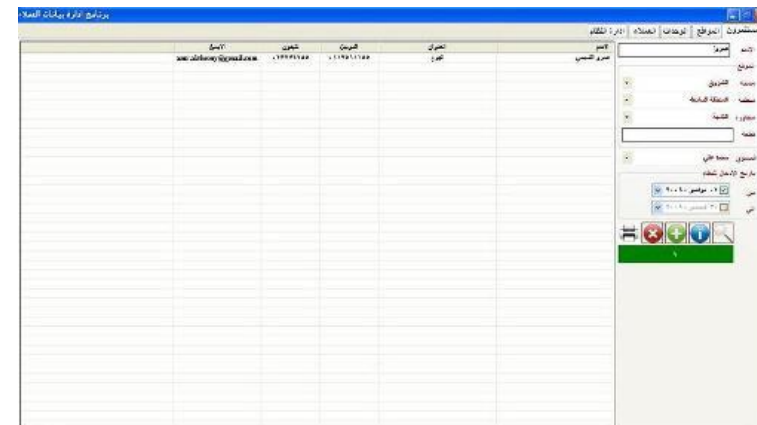
Sheikh Marie bin Mahfouz, Saudi Arabia	Bani Shehr Tribe, Saudi Arabia
	
Prime Contractor Client: Marei Bin Mahfouz Group URL: http://maraibinmahfouz.com/	Subcontractor to: ISOTEC Client: Bani Shehr Tribe URL: http://moltaqaattakrim.org/

Micro ITRoots (*Sample Products*)

Real-estate CRM

The application provides the following functions:

- Investor (Add / Update / Delete / Search / Print)
- Sites (Add / Update / Delete / Search / Print)
- Units (Add / Update / Delete / Search / Print)
- Customers (Add / Update / Delete / Search / Print)
- Reports
- Administration:
 - City (Add / Update / Delete / Search / Print)
 - Region (Add / Update / Delete / Search / Print)
 - Floor (Add / Update / Delete / Search / Print)
 - Finishing (Add / Update / Delete / Search / Print)
 - Installments (Add / Update / Delete / Search / Print)



Activities

ITRoots has succeeded in offering various services relying in that on the multiple educational backgrounds and skills that our Development team enjoys, which is proudly our most fundamental asset presented by the Presales & Development department. In the coming part a brief account of the main services offered by our team.

Application Development

ITRoots development team leads IT application development in the region following latest Technology worldwide, and guides users' to move through the IT implementation process efficiently. We are proud that our development team is one of the most professional teams in the region. ITRoots Development Team provides services covering the development life cycle, from presales activities to system delivery and operations.

Presales Activities

Covering customer consultation services before sales and contracting:

- Orientation Seminars
- Demonstrations & Presentations
- Preliminary Needs Assessment
- Technical proposals including solution concept, preliminary design, and preliminary cost assessment

Turn-key solutions

This includes consultation and systems design, database design, application design, system implementation, system testing, and delivery. ITRoots provides various applications such as, enterprise solutions, desktop applications, Web based applications, E-commerce applications, Mobile commerce applications, data mining, and spatial data warehousing.

Consultation Services

This involves considering and planning customer needs before embarking on system acquisition, application and database development. ITRoots experienced consulting staff will provide several services to support the design of efficient databases, applications and systems to best meet customer needs. These services include:

- User needs assessment,
- Data evaluation and system Sizing,
- Functional requirements,
- RFP preparation and responses through technical proposals,
- Data Quality Assurance,
- Cost Recovery Strategies,

Training

- Designing, preparing and implementing GIS training programs (VDS technologies, ESRI Like courses),
- Managing GIS scholarships,

Outsourcing

- In times of globalization, specialization and efficiency play a decisive role in order to keep up with the international competition. More and more companies source out their supported processes like IT and back office to concentrate on the business process and to be furthermore successful,
- ITRoots is a suitable partner company for a successful and goal-oriented outsourcing,
- You have always a local partner on management level and with invariable bilingual employees, a direct communication on operational level is ensured,
- ITRoots offers you the valuable possibility to combine European quality with Egyptian costs,

Awards

2014	2013
 <p>The image shows a yellow certificate from EgyptInnovate. On the left is a logo with two stylized figures holding a star above a lightbulb. The text on the certificate reads: 'Certificate of Recognition', 'This is to certify that Company ITROOTS Has been selected for EgyptInnovate ICT Award 2014', and 'Class Small Enterprises'. It is signed by Dr. Hossam Osman, TIEC Manager.</p>	 <p>The image shows a glass trophy with a black base. The base has the logo of the Holy Makkah Municipality and Arabic text. The glass part has a plaque with Arabic text, including 'مكة المكرمة' (Makkah) and 'الخدمات الإلكترونية' (eServices).</p>
<p>EgyptInnovate ICT Innovation Award 2014 - Technology Innovation and Entrepreneurship Center (TIEC)</p>	<p>Governmental eServices Forum Award - Holy Makkah Municipality</p>

Certificate of Copyright Registration

GeoBank

GeoETL

Geo Sales Manager

جمهورية مصر العربية
وزارة الاتصالات وتكنولوجيا المعلومات

هيئة تنمية صناعة تكنولوجيا المعلومات
مكتب حماية حقوق الملكية الفكرية

شهادة إيداع وتسجيل مصنف حاسب آلي

رقم الإيداع / التسجيل: ٠٠ ٢٥٩٣

تاريخ الإيداع / التسجيل: ٢٠١٥/٠٨/٢٤

تاريخ الإصدار: ٢٠١٥/٠٨/٢٤

إسم المصنف: **بنك المعلومات الجغرافية (جيوبنك) - Geo Bank**

رقم الإصدار: (١) تاريخها: ٢٠١٤/٠٣/٠١

طبيعة المصنف: ☒ برنامج حاسب آلي ☒ قاعدة بيانات ☐ موقع على الإنترنت

وصف المصنف: **خلف الصفحة**

تاريخ النشر الأول للمصنف: ٢٠١٤/٠٣/٠١ المدينة: **جمهورية مصر العربية** المدينة: **القاهرة**

رقم الإيداع السابق: (-) بتاريخ: -

إسم صاحب حقوق الاستغلال المالي: **الجذور لتكنولوجيا المعلومات IT Roots** الجنسية: **مصرية**

العنوان: ٢٨ ش جميع الحاكم الرئيسى - قسم نان المنصورة - الدور السادس علوي شقة رقم (٦٠٧) C

طبيعة الاستغلال: ☒ إستثنائي ☐ غير إستثنائي

غرض الاستغلال: - صورة الاستغلال: -

مكان الاستغلال: - مدة الاستغلال: -

إسم المؤلف: **الجذور لتكنولوجيا المعلومات IT Roots** الجنسية: **مصرية**

العنوان: ٢٨ ش جميع الحاكم الرئيسى - قسم نان المنصورة - الدور السادس علوي شقة رقم (٦٠٧) C

سجل جاري رقم: ٧٢٧٧٤ صادر من: سجل جاري استمار القاهرة بتاريخ: ٢٠١٤/٠٣/٣٠

جمهورية مصر العربية
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مكتب حماية حقوق الملكية الفكرية

شهادة إيداع وتسجيل مصنف حاسب آلي

رقم الإيداع / التسجيل: ٠٠ ٢٥٩٢

تاريخ الإيداع / التسجيل: ٢٠١٥/٠٨/٢٤

تاريخ الإصدار: ٢٠١٥/٠٨/٢٤

إسم المصنف: **جيوتي إل Geo ETL**

رقم الإصدار: (١) تاريخها: ٢٠١٤/٠٣/٠١

طبيعة المصنف: ☒ برنامج حاسب آلي ☒ قاعدة بيانات ☐ موقع على الإنترنت

وصف المصنف: **خلف الصفحة**

تاريخ النشر الأول للمصنف: ٢٠١٤/٠٣/٠١ المدينة: **جمهورية مصر العربية** المدينة: **القاهرة**

رقم الإيداع السابق: (-) بتاريخ: -

إسم صاحب حقوق الاستغلال المالي: **الجذور لتكنولوجيا المعلومات IT Roots** الجنسية: **مصرية**

العنوان: ٢٨ ش جميع الحاكم الرئيسى - قسم نان المنصورة - الدور السادس علوي شقة رقم (٦٠٧) C

طبيعة الاستغلال: ☒ إستثنائي ☐ غير إستثنائي

غرض الاستغلال: - صورة الاستغلال: -

مكان الاستغلال: - مدة الاستغلال: -

إسم المؤلف: **الجذور لتكنولوجيا المعلومات IT Roots** الجنسية: **مصرية**

العنوان: ٢٨ ش جميع الحاكم الرئيسى - قسم نان المنصورة - الدور السادس علوي شقة رقم (٦٠٧) C

سجل جاري رقم: ٧٢٧٧٤ صادر من: سجل جاري استمار القاهرة بتاريخ: ٢٠١٤/٠٣/٣٠

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شهادة إيداع وتسجيل مصنف حاسب آلي

رقم الإيداع / التسجيل: ٠٠ ٢٦٢٢

تاريخ الإيداع / التسجيل: ٢٠١٥/٠٨/٢٤

تاريخ الإصدار: ٢٠١٥/٠٨/٢٤

إسم المصنف: **مدير المبيعات الجغرافي Geo Sales Manager**

رقم الإصدار: (1.0) تاريخها: 01/11/2016

طبيعة المصنف: ☒ برنامج حاسب آلي ☒ قاعدة بيانات ☐ موقع على الإنترنت

وصف المصنف: **خلف الصفحة**

تاريخ النشر الأول للمصنف: - المدينة: **جمهورية مصر العربية** المدينة: **القاهرة**

رقم الإيداع السابق: (-) بتاريخ: -

إسم صاحب حقوق الاستغلال المالي: **محمد عبد الفضيل إسماعيل عبد الفضيل وشريكه (الجذور لتكنولوجيا المعلومات IT Roots)** الجنسية: **مصرية**

العنوان: ٢٨ ش جميع الحاكم الرئيسى - قسم نان المنصورة - الدور السادس علوي شقة رقم (٦٠٧) C - الدقهلية

طبيعة الاستغلال: ☒ إستثنائي ☐ غير إستثنائي

غرض الاستغلال: - صورة الاستغلال: -

مكان الاستغلال: - مدة الاستغلال: -

إسم المؤلف: **محمد عبد الفضيل إسماعيل عبد الفضيل وشريكه (الجذور لتكنولوجيا المعلومات IT Roots)** الجنسية: **مصرية**

العنوان: ٢٨ ش جميع الحاكم الرئيسى - قسم نان المنصورة - الدور السادس علوي شقة رقم (٦٠٧) C - الدقهلية

سجل جاري رقم: ٧٢٧٧٤ صادر من: سجل جاري استمار القاهرة بتاريخ: ٢٠١٤/٠٣/٣٠

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