SOFTWARE DEVELOPMENT

eleks®

MOBILE SOLUTIONS OVERVIEW

Mobile Solutions Overview

The term "mobile" already means a lot more than mobile phones. Consumers are connecting more and more devices wirelessly to the Internet. To satisfy ever growing consumers' needs ELEKS uses the most advanced mobile strategies and cutting-edge technologies to make its products stand out from the pack and retain user loyalty.

ELEKS has years of experience in software development for smartphone, mobile, PDA and now tablet devices. We develop custom mobile solutions for end-users and corporate needs, as well as create custom mobile applications for Independent Software Vendors (ISVs), which are often resold as part of expanded product offerings.

BUSINESS CHALLENGES

- Custom Mobile Application Development
- Porting Applications across Various Mobile Platforms
- Integration of Mobile Solutions to Enterprise Systems
- Financial Applications for Mobile Devices
- Sales and Field Force Mobile Solutions
- Mobile Barcode and QR Code Scanning Solutions
- Payment Processing Solutions
- Time Management Solutions
- Logistics and Transportation Solutions
- HealthCare Solutions
- Applications with GPS Navigation
- Both server and client side solutions
- Multi-platform HTML 5 based solutions
- Solutions for Entertainment industry
- Wholesale, Distribution & Retail Solutions

TECHNOLOGIES WE WORK WITH:

Mobile platforms

Android, iOS Devices (iPhone, iPad, iPod), Windows Mobile, BlackBerry, webOS

Data and resources

MS SQL Server, MS Analysis Services, BlackBerry Enterprise Server (BES), Mobile Data System (MDS), Sqlite, Interoperability via web-services (SOAP, REST)

Environment & Tools

.NET Compact Framework, iPhone SDK, BlackBerry Java Development Environment (JDE), Android SDK, Java ME

Programming languages

C#, Objective C, Java, HTML5, JavaScript

ELEKS as your partner brings you such Business Benefits:

ELEKS applications for mobile and PDA devices enable our customers to:

- Have instant access to up-to-date business data and corporate information
- Use the latest technology for improved and faster data input and processing
- Significantly improve business processes, performance and decision-making capabilities
- Manage field force activities more efficiently while reducing operational costs

- Raise workforce productivity through better time and efforts management
- Increase responsiveness to customers and improve other aspects of customer service
- Increase cost-efficiency and overall business performance.

Below we provide an overview of some our applications developed for mobile devices.

AN APPLICATION FOR SELECTING APPROPRIATE AIR-CONDITIONING

Industry: Wholesale, Distribution & Retail

ELEKS created a custom iPhone app for calculating required cooling and heating capacity. The application is used to aid in selecting the appropriate air-conditioning system for given living or work space. It roughly calculates the air-conditioning requirements for given spaces based on area, the number and size of windows, insulation factors and more to produce the capacity requirements. From this, the user can select an appropriate Fujitsu air conditioning system.

To simplify the selection, the application supplies related specifications and images of Fujitsu Air-Conditioning appliances.

This productivity application is targeted for both end user and a service personnel use and provides remote mobile access to important specification data and images. This iPhone app was localized for use in German and English and can easily be switched by the user.

AN ANDROID TABLET-BASED APPLICATION FOR MEDICAL EQUIPMENT DELIVERY PROCESS CONTROL
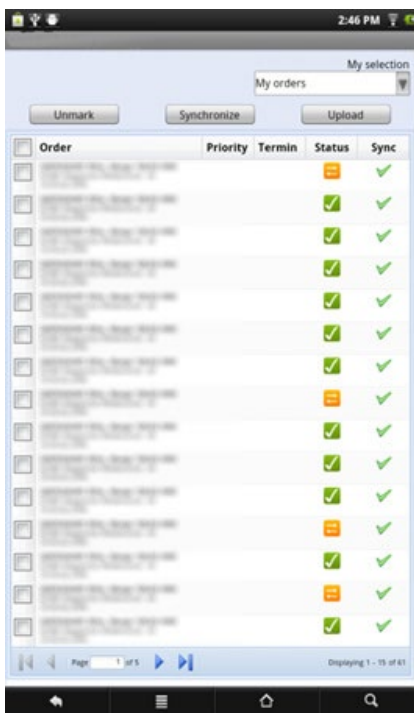
Industry: Healthcare

ELEKS developed and delivered an Android application designed to improve the distribution process of delivering medical equipment to insured people.

Each of the customer's couriers is equipped with Android tablet loaded with Delivery Process Control application. The application communicates with the dedicated server via SOAP-based protocol. Delivery orders are retrieved from the server and stored locally in a SQLite database (on device) to provide the ability to view individual work orders in both online and offline modes. Processed delivery orders can be synchronized later with server when network becomes available.

When the courier delivers ordered equipment from the company, the receiving party "signs" with his or her signature in a designated field to confirm a delivery directly on the Android tablet. This signature is then processed as an image, attached to order, and later a PDF document is generated (with the client's signature as image) on the android device. Furthermore, this generated PDF document is then transmitted to server-side (via SOAP) and system changes the order status to "Delivered".

A MEDICARE PATIENT ASSESSMENTS SYSTEM FOR MOBILE DEVICES

Industry: Healthcare

ELEKS was involved into development of information system for collecting Medicare-mandated patient assessments and providing real-time analysis of both patient and facility indicators, which ensures continuous quality monitoring and improvement. Patient assessments can be stored locally (on device) when network is unavailable. Later when a network connection is available, collected data is synchronized with a server-side application.

The customer originally requested that ELEKS create mobile applications specific for each mobile platform (Android, iOS, etc.). ELEKS offered an alternative solution of creating a single HTML5 cross-platform application that the customer's management team felt was very acceptable. This approach not only saved them a considerable amount of money but also significantly reduced the time for developing, testing and bringing the product to market, not to mention it was far easier to maintain and could scale much more easily in the future.

SOFTWARE STATISTICS SERVICE FOR MOBILE APPLICATIONS

Industry: Enterprise Solutions

Under a close relationship with MagneticOne (MagneticOne.com), ELEKS developed the software solution called Software Statistics Service (SSS) that they in turn offer as a service to software authors and owners that allows them to obtain essential software usage data on their mobile and desktop applications. Their statistics offering provides detailed reporting on how a software product is actually being used in the field, how many times the product is run, the number of downloads, tracks user paths within the applications, tracks versions of software actually used, obtains geographic location data, view screen resolution, and much, much more. By using the data obtained from real users, developers can spot key trends on how your software is actually being used in the real world and see what's working and what's not. The provided statistics can be essential for helping to guide future product development.

ELEKS made the code for each software application platform compact and highly efficient, while being easy to use for installation and maintenance. With a few lines of code, the service natively supports mobile apps made for Apple iOS, Google Android and Windows Phone 7 smartphone and tablet devices. For desktop applications, the service supports Windows, Mac OS X and applications based on .NET, C++, Java, Delphi and Microsoft Silverlight.

Data is collected regardless of Internet connection. When an Internet connection is found, the statistical data is sent in the form of XML statistics to a secure server on the Cloud where the data is then collected and tabulated for analysis and displayed in simply-to-understand reports. It is also possible to manage what statistic information is tracked for each device.

Software developers can access statistics from anywhere on the planet with access to the Internet. Source code is also available for customers of certain plans. Find Software Statistics Service (SSS) Screenshots below:

AN APPLICATION FOR ACCELERATED ANALYTICS

Industry: Wholesale, Distribution & Retail

ELEKS developed a Retail Point of Sale Reporting and Analytics iPad application for its customer Accelerated Analytic, an American data warehouse consulting and engineering company. Data is stored on the customer's secure website and accessible to their subscriber base. ELEKS created an Apple iPad application that was designed to optimize the workflow of sales reporting figures. Data is extracted from their website and displayed in a simple, easy to understand format. ELEKS' team developed the application to automate key sales and inventory reports. The benefits include improved sales, in-stock & sell-through performance, increased productivity, real-time team collaboration, elimination of manual data handling, and ease of use.

A BLACKBERRY APPLICATION FOR BILLING & MANAGING LAWYER'S SERVICES

Industry: Legal services

ELEKS created a Blackberry application that allows attorneys to easily capture completely time-based billable activities and expenses directly on a BlackBerry smartphones. It also allows information to be automatically transferred wirelessly into the Enterprise system and seamlessly synchronized with the firm's existing time and billing system.

AN ANDROID-BASED APPLICATION FOR PROFESSIONAL SERVICE PROVIDERS
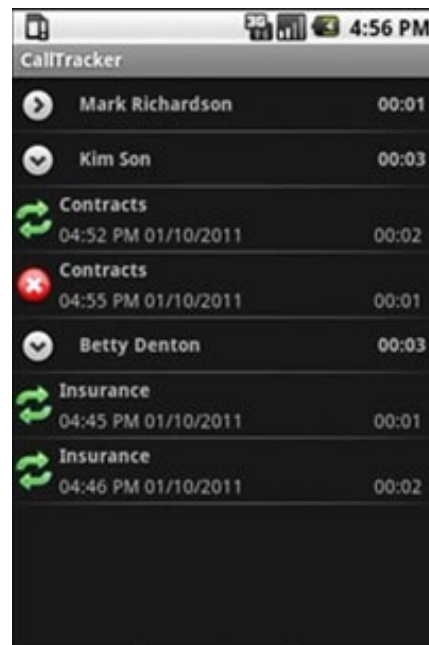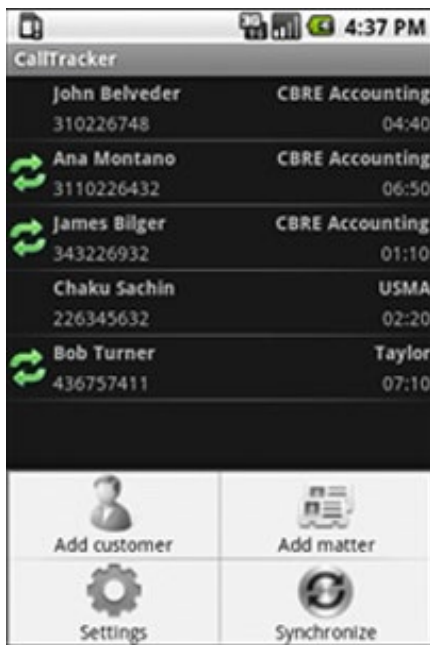
Industry: Product Implementation

ELEKS developed an advanced Android-based smartphone application to store and manage calls-related data. The smartphone application was created for lawyers, consultants and professional service providers who need to track and log phone calls to and from their clients for billing purposes. The tracking log of calls is then transferred securely via a wireless connection to an assigned server.

The application also enables its users to immediately obtain and store comprehensive call reports, which makes it easy to bill the quantity of time spent for each client over a period of time.

The Android application created by ELEKS has the following features:

- Organizing calls by projects
- Organizing clients and projects in a variety of ways
- Remembering the user's last decision regarding invoicing calls per particular phone number
- Secure storage on server.

A CUSTOM IPHONE APPLICATION FOR A LEADING PROVIDER OF FINANCIAL TECHNOLOGY SOLUTIONS

Industry: Banking & Financial

ELEKS created a custom iPhone application for its customer to help increase the efficiency of its system administrators. The iPhone app provides real-time status of the customer's internal information systems.

The customer derived significant benefits from outsourcing the iPhone application development processes to ELEKS. They included expanding their technical capabilities, significant costs reduction and improved in-house staff efficiency.

A CUSTOM IPHONE APPLICATION FOR A MAJOR REINSURANCE SERVICES PROVIDER

Industry: Reinsurance

ELEKS developed an iPhone client application for the world's premier reinsurance intermediary and capital advisor. The application is used by the company's legal staff for entering and editing critical information about a policy from any location. It integrates the enhanced tools for data visualization (maps, photos, GPS). The location data is extracted from the system and can be filed with the information being gathered. All data is then sent securely to the customer's appropriate internal systems.

The application provides a number of advantages to the customer including instant access to up-to-date data; better and faster data archival and analysis, decreased manual workloads and increased staff efficiency.
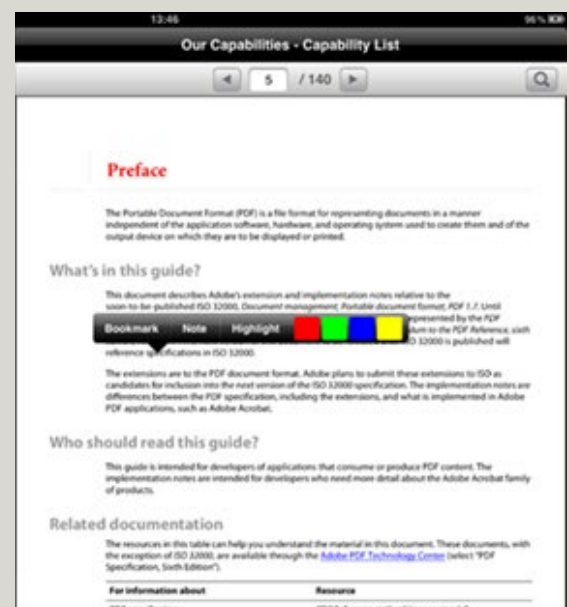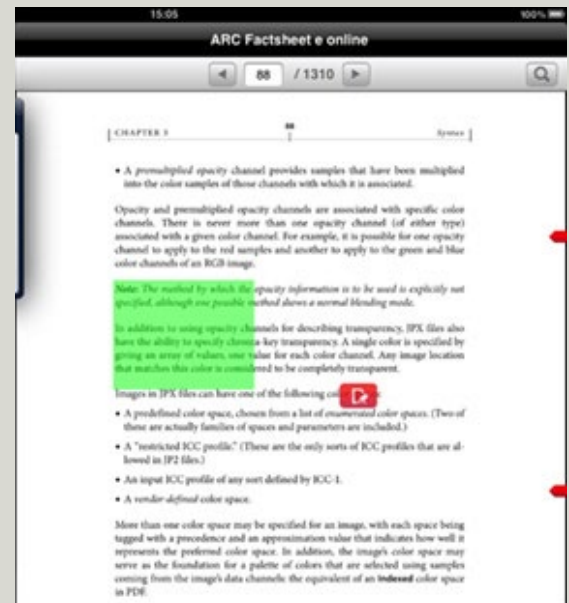
A TRAINING MANAGEMENT MOBILE APPLICATION

Industry: Aviation, E-Learning

ELEKS team has developed a mobile application for trainees (Boeing maintenance stuff) that helps them use PDF, images and video training materials for their studies. The application's main feature is support of encrypted PDF files which allows to protect the intellectual property from illegal copying or access.

The other features were developed using only native iOS frameworks: structured displaying of the course materials; Possibility to work in offline mode; the possibility of convenient displaying, managing and modifying of the folders and user's notes (edit, move, delete) and bookmarks, search in PDF, native PDF bookmarks (links); the possibility to highlight square area that can be filled with different colors, change the application topic without changing the initial code and work in offline mode. All website and the course structure updated materials are supported.

Trainees can study the course materials on the go, without depending on the desktop computers or internet connection. All the materials are handy and ready to use.

The solution is secure and protects the training company data ownership.

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