

# MOBILE APPLICATION DEVELOPMENT

# CAPABILITY DOCUMENT



**Innodeas**

**Innovative Ideas into Profitable Solutions**

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## INNODEAS – A BRIEF PROFILE

Innodeas is a Singapore based software services and IT Product Company that provides services in web and mobile application development. We apply innovation to all developments so as to make the product profitable. The slogan we follow is 'Innovative Ideas into Profitable Solutions'.

Innodeas is a leading software solutions provider at the forefront of web and mobile technologies. We have a team of talented software engineers, test engineers, graphic designers, business analysts, architects and XHTML/CSS specialists. We provide our clientele across the globe with innovative solutions to their business problems. We are backed by two software teams (one is having a strength of 290+ and another with a strength of 45+) in India which are into business for last 11 years.

Innodeas specializes in offering innovative solutions to all, no matter what the size of the company or budget. We help our clients' businesses by developing robust, fast and secure applications.

Innodeas has developed enterprise-grade products for several successful companies and have earned the reputation of being a high-end service provider who is also profitable.

## INNODEAS' SOFTWARE DEVELOPMENT APPROACH

Innodeas adopts a highly responsive and transparent approach towards our clients. We provide full visibility of all the processes as we design, develop, test and deliver the applications. They get to see the status of the latest builds; the application takes shape right before their eyes. The applications are developed in a strict, quality controlled environment.

Innodeas promotes a project management process that encourages frequent inspection and adaptation, a leadership philosophy that encourages teamwork, self-organization and accountability, a set of engineering best practices intended to allow for rapid delivery of high-quality software, and a business approach that aligns development with customer needs and company goals.

## PROCESS @ INNODEAS

Innodeas uses agile software development methodologies to improve quality while reducing cost and time-to-market. Agile software development refers to a group of software development methodologies based on iterative development, where requirements and solutions evolve through collaboration between self-organizing cross-functional teams.

Today's businesses operate in a fast changing environment, where they have to respond to market changes quickly by introducing new products or changing existing ones. Typical projects are now three months or less and not years as it used to be. New technologies are coming to market every other day, so if a product takes years to build, it sure will get outdated before it is being launched. The web-based model allows companies to launch a bare bones version of the product first, get feedback from end-users and then incrementally add new features based on that feed back.

Agile methodologies take an iterative approach and do not require a 'requirements freeze' upfront. Work is carried out in iterations, which typically last one to six weeks. All of the features required for the project are put in a wish-list. Then depending on business priority, these features are assigned to releases which are tied to iterations.

Scrum is the default process we use. A custom-made process for a client is usually a variant of Scrum. The requirements for the product are collected into what is called the product backlog, which is a prioritized wish list of features. Features may be described using user stories or use cases. The Product Owner maintains the product backlog. The Product Owner is a Scrum role that represents the interests of the customer. It could be the customer or a business analyst representing the customer. The product backlog is never frozen, users can suggest new requirements and the Product Owner can add them to the backlog and prioritize it.

The product is developed iteratively in multiple sprints. A sprint is a time-boxed iteration, which usually lasts 30 days. The duration of a sprint can be fixed based on the nature of the project. Typically a release follows a sprint, though a release can be made after multiple sprints. Each sprint will implement a set of features. A sprint backlog is created prior to the beginning of a sprint during the sprint planning meeting. The sprint backlog contains all the tasks that need to be done to implement the features included in that sprint. Once a sprint starts, the scope of the sprint cannot be changed by adding new features. This allows the developers to complete a sprint without external interference. The Scrum Master is responsible for making sure that the process is followed. Typically, this is the Project Manager.

### iPhone

- Objective C
- Cocoa Touch Framework
- iPhone SDK 2.2.1, 3.x
- XCode 3.2.1
- SQLite Database
- Snow Leopard
- Ruby On Rails

### BlackBerry

- JDK 1.6
- BlackBerry JDE v4.7, v4.6.1
- Eclipse v3.4.1
- Sybase UltraLiteJ Database

### Windows Mobile

- .Net CF 3.5
- Windows Mobile professional
- SQL CE compact edition
- Visual Studio 2008 (c#)

### Android

- JDK 1.6
- Android SDK 2.0
- Eclipse
- SQLite Database

## iPhone

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## BlackBerry

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## Android

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# iPhone Applications

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## ChargeNGo

ChargeNGo iPhone application provides healthcare solution for clinics. The application provides instant access to patient medical history. This app also helps physicians efficiently schedule appointments and better manage time. The client application runs on the iPhone and synchronizes with the server data.



'ChargeNGo' is available in the Apple App Store.

The ChargeNGo iPhone application transforms the administrative and clinical operations of health care organizations. The physician has to log in and select the location. This is used as a filter parameter to generate the patient list. The physician can access their messages and schedules from the main menu. They can perform actions like forward, reply and delete with the messages and schedules. A notable feature of the application is that the physician can view the patient list and get afore knowledge about the history of the patient.

The physician can update the patient database by using the 'add new' option. For this, the application gets information like date of birth, floor, wing, room, visit type and so on. At the same time, they can also update the patients' health record. It can also record voice and send it as a memo to the transcriptionist.

The database used for this application is SQLite and it synchronizes with server database.



PrivateFly is an online booking network that makes it quicker and easier to charter private jets.



By selecting a source and destination one can get a quote from a number of charter service providers. The iPhone application enables a single individual to search for aircrafts and get a quote based on the results obtained.



## Application

The application starts by displaying an Aircraft search screen where he can choose inputs for Departure station, Arrival Station, Departure Date and an Optional Return Journey.

Clicking on a Departure/Arrival cell takes the user to an Airfield select screen from which a user can select a destination from a list of 8000+ airfields. The search can be made on the fly by querying in the airfield name, ICAO code or IATA code. Once these parameters are entered, the user can search for the aircrafts and the results are displayed in the screen

Each result is a single aircraft that describes its nature like availability, type of aircraft, seats, speed, range and quote starting from (in pounds ).

After viewing these results the user can get a quote via Phone or Email





## BIBLE MEMORY

'Bible Memory' is an iPhone application that enables users to learn and memorize new passages from Bible. An elegant interface presents inspiring passages from the Bible, and an engaging quiz feature helps users memorize the passages. The app makes memorizing fun with a quiz and scoring system that provides feedback and keeps motivation high.



### The Application

'Bible Memory' can be downloaded from the Apple App Store. The application can be broken down into four primary sections.

1. Read: Read presents a passage to learn from the Bible. Passages to learn are collected in a study List and associated with a particular topic.

2. Review: Review helps the user memorize the passage by displaying only a particular portion of a topic on the screen. Here the passage is displayed progressively revealing a section at a time.

3. Quiz: Quiz tests the user on their recollection of the passage using fill-in-the-blank questions. The user is encouraged to make multiple attempts until they have successfully completed the quiz.

4. Management: Manage Curriculum allows the user to monitor progress and adjust the curriculum and study list settings. There are also interactive features like 'My Goals' which the user can make use of to set targets.



## SNOVEO SKI APP

Snoveo ski app is an iPhone web-service application which is used to display the weather and snow report of a particular ski resort. The app fetches reports from countries around the world and displays it in an elegant view for the user. Currently there are 16 countries and more than 250 resorts in the app.



### Application

The application allows the user to create their profile, choose their preferred resort and then view the weather reports. So application basically manages the user profile, fetches weather report through a web service and streams video report. Initial loading of application takes user to create profile screen, otherwise for registered users the “choose resort screen” appears.

In create profile screen the user is made to enter their details, then proper validations are done before committing the details to the online database.

Weather and Snow report is integrated into a single screen that switches between the two reports through sliding interface.

Video Report button is enabled when a video is available for the selected resort or else it is disabled.

The initial preference and data entered can be updated and the selected resort can be changed anytime by the user. The user details are stored and updated in an online database and a local cache of the details are also kept.



## FOMS - FIELD ORDER MANAGEMENT SYSTEM

FOMS is an Order Management application for a Singapore based company K.N.P Trading Private Limited. The main objective of this application is to help the field staff take orders from customers at one go.

### The Application

The application provides a simple order management system for users to see product listing, select products from the list and finally submit the complete product list to server thereby ordering the same in one button click.



## SONY APPLICATION PROTOTYPE

This application is developed as a prototype for Sony Singapore.



The main objective of this application is to give users, details of the products on offer by Sony Singapore. The prototype lists the products and its details available in the link <http://www.sony.com.sg/section/home>

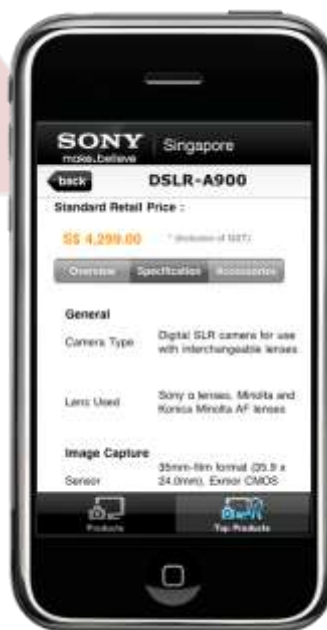


### Application

The prototype application has two navigation options, one option is to select products from the Top rated Product Menu and the other from the complete Product List.

Once a product type is selected; a page displays showing the various product models on offer for sale along with the price listing.

You can get more detail of the product in the next page “The Product Details Page”, which displays the features, specification, price etc



## 3<sup>rd</sup> WHALE

Treehugger, Huffington Post, Mashable, Sustainable Industries and many more have recommended the 3rd Whale iPhone application. 3rd whale helps its users to lead a green living. With more than 25,000 green business listings, the application spans green businesses in almost all of North America.



### Application

3rd Whale is an application for the environmentally conscious. It helps the public locate the nearest vegetarian restaurant, fair trade store, yoga center or bicycle shop. The user can search for what's around and search for green places. The usage of GPS enables to locate the nearest green place.



The app also uses the built-in Google map, which further helps to find directions to the selected location. The application provides interactive features for planning trips. If a user wants to add certain green business or some environment friendly green place into the application, they can register and submit information. This can be done either through the client application in the iPhone or through the 3rd whale website.

## EXPENSEBOOKS

ExpenseBooks iPhone application helps travelers to login FreshBook expenses on the go.



### Application

The ExpenseBooks iPhone application not only helps travelers lodge expenses but also help companies keep track of employee expenses and timely invoicing. The main advantage of this application is that the expense in business meetings, purchases et cetera do not pile up when you are travelling, you can enter them immediately to FreshBooks thereby giving a clear picture of your expenses.

The ExpenseBooks iPhone application helps quickly authenticate and replicate to FreshBooks, there is no need to look up and then enter again to FreshBooks like in most other applications. You can view, update, delete existing expenses with Freshbooks.com using Expensebooks. ExpenseBooks can work online as well as offline. ExpenseBooks will Sync any expenses, created offline with FreshBooks next time when an online connection is present.



## WORKSNUG

WorkSnug is an iPhone application that connects mobile workers to the nearest and best places to work in the major cities of the world. It shows available workplaces near to you using Augmented Reality and location-based services. It also provides you detailed information on the workplaces including WiFi availability, noise levels etc, helping you to make informed choice.

### Application

WorkSnug team, dozens around the world, have visited and reviewed hundreds of viable workspaces.

Review parameters include WiFi, noise levels, power provision, community feel and even the quality of the coffee. The iPhone application shares this reviewed database for those on the move, searching for the nearest and best places to connect.



The application enables you to make an informed choice on the workplace. More than that, worksnug application is open up to user reviews. Stories and reviews of favorite locations are shared, forming an active network. The application even includes a decibel meter, enable you to measure the noise level and send to share with the community.

## LOVESTRUCK

Lovestruck is an online dating agency which helps singles to get in touch with each other. Once a user completes registration the application searches for singles based on the user-defined search preferences. Lovestruck is currently available in some of the major cities like London, New York, Singapore etc.



### Application

The application starts by allowing the user to create their profile, choose their match preferences and view profiles based on point of interests.

The Home screen has links to the user's messages (inbox / outbox), winks, viewed me (the number of views that has been made to the user's profile), Online now, Free for Lunch, Free tonight.



The Search screen displays the results for the Best Match, Nearest Match and Newest Match based on the user's search preferences. Clicking on any particular result directs the screen to the respective member's profile page.

The Messages screen displays all the messages the user has received from other members. This page also has the provision for the user to send a new message and thus continue a conversation.

My profile screen displays all the information about the user and has the provision to edit his personal information and search preferences





# BlackBerry Applications

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## ChargeNGo

ChargeNGo BlackBerry application provides healthcare solution for clinics. The application provides instant access to patient medical history. This app also helps physicians efficiently schedule appointments and better manage time. The client application runs on the iPhone and synchronizes with the server data.

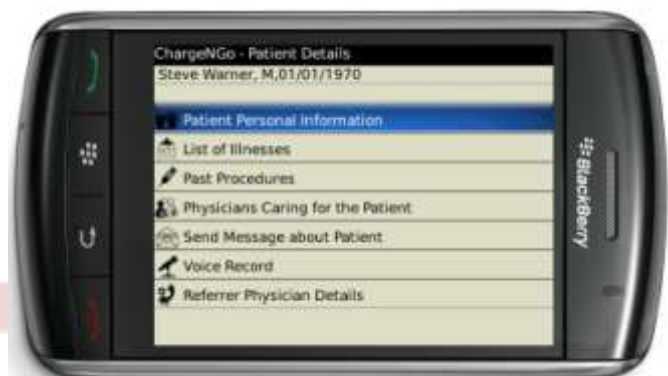


### Application

The ChargeNGo BlackBerry application transforms the administrative and clinical operations of health care organizations. The physician has to log in and select the location.

The physician can update the patient database by using the 'add new' option. For this, the application gets information like date of birth, floor, wing, room, visit type and so on. At the same time, they can also update the patients' health record. It can also record voice and send it as a memo to the transcriptionist.

The database used for this application is SQLite and it synchronizes with server database.



'Petro' is a BlackBerry application that gives the location of petrol stations in Singapore within a radius of 5 km, from where the user is located

### Application

The PETRO application locates petrol stations for a user within a radius of 5km, based on his location.

If the user has a BlackBerry device which supports GPS and is connected to the Internet, Petro application will make use of this GPS facility, internet and will detect and display all the nearby Petrol Stations on a Map.



Navigation in the map is made extremely easy with the help of a pointer which can be controlled by a trackball as well as by Touch operations.

Once a Petrol Station is chosen you can get driving directions in steps to that corresponding station. In addition to providing driving directions, Petro provides you with a whole lot of information on the facilities (Address, Telephone number, Postal code etc) available in that particular Petrol Station.

# Android Applications

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## EXPENSEBOOKS

ExpenseBooks Android application helps travelers to login FreshBook expenses on the go.



### Application

The ExpenseBooks Android application not only helps travelers lodge expenses but also help companies keep track of employee expenses and timely invoicing. The main advantage of this application is that the expense in business meetings, purchases et cetera do not pile up when you are travelling, you can enter them immediately to FreshBooks thereby giving a clear picture of your expenses.

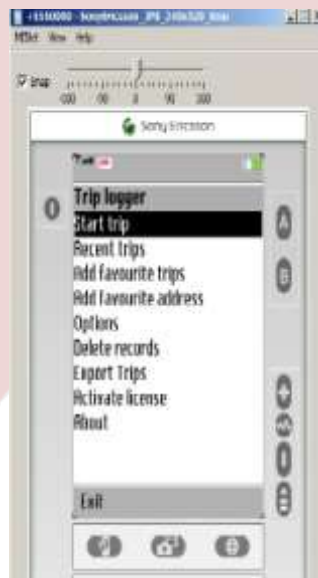
The ExpenseBooks Android application helps quickly authenticate and replicate to FreshBooks, there is no need to look up and then enter again to FreshBooks like in most other applications. You can view, update, delete existing expenses with Freshbooks.com using Expensebooks. ExpenseBooks can work offline as well as online. ExpenseBooks will Sync any expenses, created offline with FreshBooks next time when an online connection is present.



## MOBILE TRIP LOGGER

MobileTripLogger is an Android Mobile Application developed for owners and drivers of Vehicles where they want to log their trips (either personal or business) and generate reports. These reports are useful in claiming refunds from your company for your business trips or claiming rebate in Tax when you use your car for your business needs.

The package comes up with a client application that operates in the handheld and a supporting desktop application which incorporates the data from the handheld to generate reports in the desired formats.



Some of the key features of this application are listed below:

- Easy to understand interface
- See logs online
- Transfer to your computer
- Enter your trips on the way
- Based on the extent of private use calculated for tax purposes.
- Determining the private use of a company car
- Meets the requirements of tax authorities
- Comes in two languages (German/English).

# Windows Mobile Applications

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## ChargeNGo

ChargeNGo Windows Mobile application provides healthcare solution for clinics. The application provides instant access to patient medical history. This app also helps physicians efficiently schedule appointments and better manage time. The client application runs on the iPhone and synchronizes with the server data.



### Application

The ChargeNGo Windows application transforms the administrative and clinical operations of health care organizations. The physician has to log in and select the location.

The physician can update the patient database by using the 'add new' option. For this, the application gets information like date of birth, floor, wing, room, visit type and so on. At the same time, they can also update the patients' health record. It can also record voice and send it as a memo to the transcriptionist.



The database used for this application is SQLite and it synchronizes with server database.





# Symbian Applications

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## MOBILE TRIP LOGGER

MobileTripLogger is a Symbian Mobile Application developed for owners and drivers of Vehicles where they want to log their trips (either personal or business) and generate reports. These reports are useful in claiming refunds from your company for your business trips or claiming rebate in Tax when you use your car for your business needs.

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