

Enterprise Application on ipad

Overview

This white paper talks about the capabilities of iPad to implement enterprise level application and using iPad as a virtual desktop. It also discusses the possibility to implement database applications like the old conventional client server applications but in a much sophisticated manner.

Introduction

It has been few years since iPhone was introduced. It was a revolutionary highly sophisticated hardware along with very user friendly interface. It also opened up a new door for developers by introducing the concept of App Store.

Now, after iPhone being so popular and thousands of application being developed for iPhone, when people started expecting a big screen for same product, Apple Launched iPad. Suddenly, the daily conversation topics changed. The “number of hits” changed to “number of downloads”, The popularity of website changed to popularity of application.

The monetization model given by apple for both iPhone and iPad has turned out to be a very successful model for both Apple and Developers. And when iPad is launched, even the limitations of small screens for application developer was taken care and now highly sophisticated applications are available for all category of users.

iPad for Enterprise Applications

iPad is expected to grow and become popular in enterprise sector multifold in coming months. Though, right now people have to buy their own iPads but eventually companies may plan to go for a distribution of iPad amongst the employee to carry it easily and be a regular user of it

This type of arrangements looks most feasible for Sales People who can have their catalogs and other activities at Point of Sales being done via iPad.

The advantage of carrying a database using SQLite and ease of using the device with large screen size makes it best suited for enterprise applications. Large number of sales people might already be using the device to carry their day to day activities.

Imagine a scenario when a sales person has to show a catalog to a customer and he display the paper catalog versus the iPad catalog. No doubt, the paper catalog with its quality and printing may appeal the customer but what about regular updates, what about catalog carrying a heavy number of items, what about the changing prices, the deals, discounts for different customers.

Now, imagine the same catalog been displayed on the iPad. This catalog is updated with latest products, images, prices discounts etc. and moreover, the sales person, instead of carrying a heavy paper catalog is carrying a simple iPad with thousands of items displayed in very sophisticated way. This sales person, when displaying the catalog to its users by swiping the fingers on iPad screen, the user experience is altogether different.

iPad is coming with multiple facilities and applications. Database Applications, Bar Code Scanning, Printing from iPad, making 3D applications, Gaming and Video Conferencing and many more facilities, when available on iPad, eventually it will become the virtual desktop and can be used for multiple enterprise level applications.

We did a tremendous amount of work to make sure that the enterprise level applications runs smoothly with minimum dependency on the connectivity and using the power of iPad in most optimum way. Our expertise in designing the application from all perspective including UI, Database and Performance Optimization has resulted in a great iPad experience for Enterprise Users.

Challenges

Despite of all the surprising sales figures of iPad from Apple, few challenges still remains with development work being done on iPad.

- Still the large scale Enterprise Applications needs to be developed which will eventually need a high performance iPad.
- UI Design is another big challenge. The expectations from iPad Applications is obviously very high due to its sophisticated hardware and touch experience.
- Battery Consumption while using a heavy internet connection, push notifications (from websites like facebook, twitter etc.).
- Limited Facility with SQLite Database to create complex applications.
- Flash doesn't play on iPad so the retailers have to make their applications iPad friendly.
- Security – to protect the enterprise level data on device.

Opportunities in Enterprise Applications on iPad

Today, most of the enterprise have either already started their mobile initiatives or are planning to go for a mobile. The mobile initiative is expected to increase productivity and high level customer satisfaction.

With Introduction of iPad, Apple has given a strong benefit to the organizations who are planning to go mobile for their business applications such as BI, Sales Force Automation etc.

Though, some analyst have declared that the iPad is not ready for Enterprise Application because of Security, Some are keeping a wait-and-watch approach, lot of Enterprise Applications have already come to the market. Big Giants like Mercedes-Benz, Wells Fargo had already started experimenting their enterprise level applications on iPad.

Last but not the least, the competition. A survey reveals (I don't know how authentic that is) that 54% of Android/ BlackBerry Users are already planning to switch to iPhone/iPad. May it be the carrier loyalty that is stopping them from doing so (its not yet available on Verizon). But eventually, it will be Apple.



iPhone Capabilities

Apples iPhone and AppStore changed the paradigm of mobile and multimedia industry. Apple entered into Smartphone market a few years ago with touch devices. iPhone OS is a fastest, most powerful, GPS and Wi-Fi enabled Operating System.

Diaspark is one of the very few companies which delivered applications on iPhone platform soon after the release of iPhone. Diaspark has delivered various applications on iPhone platform in Games, Media, Entertainment and Healthcare domain . Some of its own products are also launched on AppStore. These applications are highly feature rich and have very attractive user experience.

Diaspark's iPhone Capabilities

With a team of over 30 People in iPhone, Diaspark has developed multiple applications that are available on App Store. These applications cover wide range of audience including a Corporates, Entertainment Industry, Music Industry, Healthcare etc.

Any Project in Mobile Application development has multiple components which affects the overall performance of the Mobile Application. To address this, Diaspark has dedicated teams for Technical Development, QA, Creative Designing and Project Coordination. This arrangement helps us achieve high quality standards in each area of development.

Our key areas of expertise includes:

- Rich GUI across all applications.
- High Performance Database Applications
- Location Based Service Applications
- Augmented Reality
- GeoTagging
- Social Media Integration
- Multi-Tier Application.
- Porting Across Various Resolutions
- Server Side Development in .Net and J2EE platforms
- Expertise in Deploying on App Store
- Expertise in HTML5, CSS, JavaScript and Frameworks like PhoneGap, Titanium.
- 3D Gaming with UNITY
- Billing Integration and In-App Purchase
- Voice To Speech Translation
- Localization
- Chat Applications – XMPP Based Frameworks
- Printing Implementation from Mobile Applications.
- Testing Across Various Carriers in USA.
- Applications for Mobile Reading Experience.
- Live Video Streaming
- Integration of RealTime Feed for Applications with Live Data.



Android Capabilities

After Android has been introduced by google, it has gained heavy popularity in competition to iPhone. Diaspark has high level of expertise on Java Platform to support development on Android Platform. Diaspark has developed and published multiple applications on Android Platform which are available on Android Market Place.

Diaspark's Expertise in

- Implementing Standard MVC architecture code for Development
- Rich User Interface as per standards of Android Development
- Porting Across various devices.
- Integration with Social Networking Sites.
- A Dedicated team of developers for Android Platform.
- Phonegap and Titanium Development
- Chat Application using XMPP.
- Third Party API Integration like Twitter, XMPP, Facebook etc.
- Webservice Integration.



Software & Services

Microsoft office

Microsoft office SharePoint Server 2007

Microsoft Office 2007

Server

Windows Server 2003

SQL Server 2005

Development

Microsoft Visual Studio 2008

Microsoft SharePoint Designer

Technologies

Microsoft .NET Framework 3.0

InfoPath and Excel Services



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