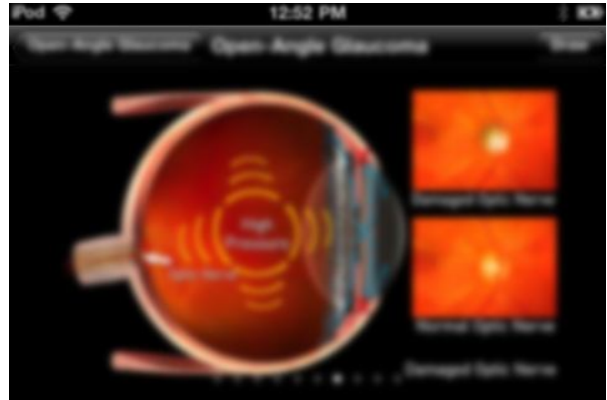# iOS App for Ophthalmologists

An iPhone / iPad App

Executive summary

This app works to combat blindness in developing and developed countries, restoring sight through specialist treatment and eye care. It is used by eye care professionals to help demonstrate various eye diseases, conditions and treatments to their patients. The app is neither meant to serve for definitive diagnostic purposes nor as a substitute for clinical judgments.

This app was developed as a reference application for eye doctors. The application shows 3D images and videos which include eye structure as well as various types of problems that occur in the eyes. These pictures/videos are categorized according to their relevancy to the eye problem.

About our Client

Client : Confidential | **Location** : USA | **Industry :** Healthcare

Business situation

The primary goal of this application is to build an iPhone/ iPad (Universal) based application which helps eye care professionals to demonstrate various eye diseases, conditions and treatments to their patients. Although solutions were proposed by multiple software service providers, Mindfire excellent software solution(s) and strategy stood out, fulfilling the core requirement of the app implementation, and providing a definitive roadmap to deliver required product versions and supporting services/processes.

In addition to this, the application is very easy to learn for any naive person using an iPhone/iPad. It does not take a lot of effort to describe the various feature of the Product .Mindfire has understood, analyzed and laid out well defined plans for supportive business cases to the original product idea.

info@mindfiresolutions.com   www.mindfiresolutions.com

Solution Details
The Mindfire Solution

Mindfire built this app in two phases:

1. First Phase : This section had a list of complete information on eye and vision problems. Topics get listed via image and video presentations

2. Second Phase : This consisted of the playlist features, drawing feature and store feature. These all features were added to the existing APP .

    i) In the Playlist feature, you can create a video playlist of exiting topics such that when you want to you can play a video on a particular topic related to eye sight.

    ii) In the Drawing feature one can use the drawing to elaborate the concept related to eye disease such that it is easy to explain and understanding. One has different colors with dimensions and one can write on images.

    iii) In the Store feature one can show new topics present on the App store.

a) If App gets deleted from device, it automatically downloads the purchased products.

b) Also user can re download their purchased items. From the user's prospective there is no need to keep any information about "purchased products" .

c) The App store has two versions of the app available for this App.

Achievements

The Client's requirement was to add a new type of mechanism to elaborate eye problems with the help of Video or Graphics from the App Store .The client wanted the product to be available on a mobile platform without losing out on quality or speed .It was a very tough task but the capable iPhone development team at Mindfire Solutions brainstormed and developed an application precisely as desired by the customer.

Technologies:

iPhone SDK, Xcode 3.1, Cocoa Touch, Core Graphics, Plist/ XML

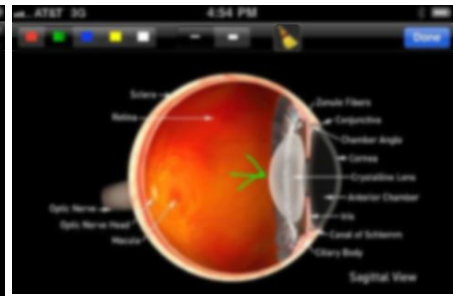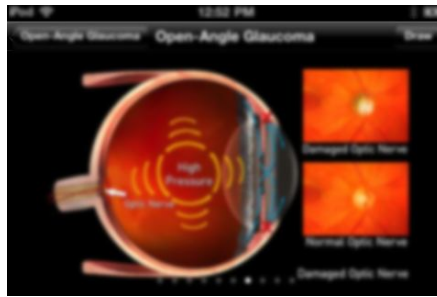## Software system

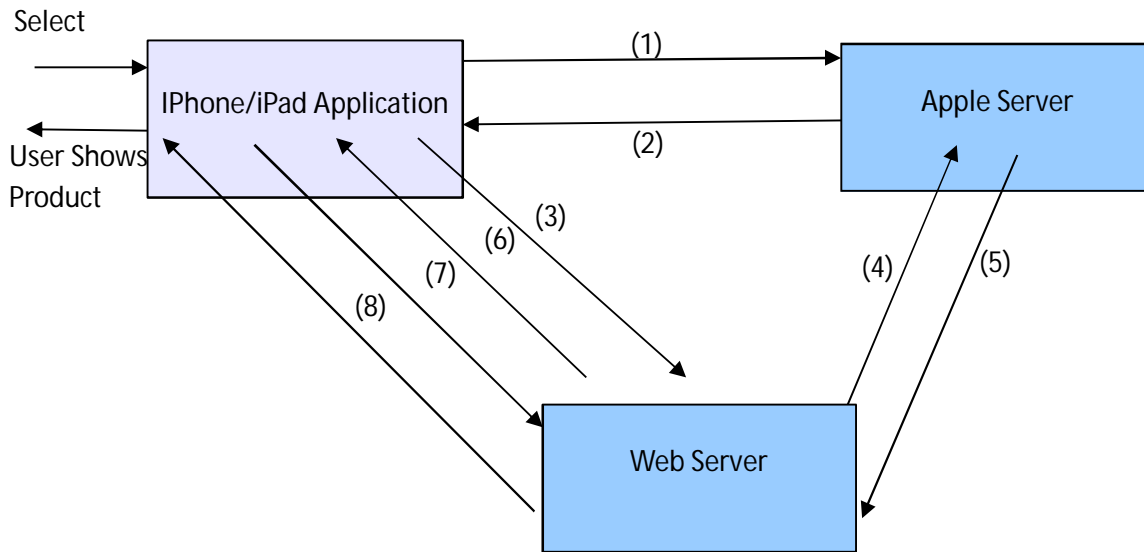Figure1- Home Page   Figure2-Full Item View   Figure 3-Editable Screen

Figure 4- Project Deployment

1. Purchase Request   2. Response <Token>
3. Send <Token> to Webserver   4. Request <Token> Verifications
5. Verified<Token> Response   6. Send<xml> to application
7. Request loads the data from web server.   8. Data from web server.

Figure 5– Home Screen

Customer benefits

This App demonstrates various eye problems and their cure. This APP can be used by doctor, medical colleges for teaching purpose and even by a naïve user. Doctors can easily describe and elaborate eye related problems and cure to their patients. Medical colleges can teach their students by elaborating with videos and images, the eye states in various situations. Using this app, the naïve user will find it easy to understand their eye problems.

Future relationship

After the successfully launch the first version of the app, the client also wanted us to work on developing the next two versions. These new version of the app has been released in the market. Based on the quality of our deliverable the client was glad to offer us another app development assignment which has been successfully completed and submitted to the APP store.