

CSCI 188 Project Proposal

iWedding

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Project Abstract

I propose an iPhone wedding application for guests of weddings. It will allow them to view details of the big day as well as help them out on the day of the wedding. I have extra motivation for this project. Currently, I have a prototype web app and Android application with working functionality. I plan to port over my Android Java code into iPhone Objective-C.

Strategy

My design consists of a few parts:

- 1) a QR code reader to read a QR code which acts as the login for a particular wedding (there is an open source Obj-C lib for this)
- 2) a grid-like interface with icons, where each icon can be pressed to go to different details of the wedding (directions, wedding party, about the couple, etc.) and features of the app
- 3) the actual features, including info screens, as well as a live camera wedding picture uploading feature

Platform specific features include use of Maps/GPS (for directions), Camera (for live image upload), and Network (for talking to my web app server, which already exists) APIs. I am aiming for iOS 4 (maybe 5 since it comes out soon). I am developing for iPhone 4 since I own one.

Unknowns & Problems

I am not too familiar with Objective C, so the time to learn it and get started will be an unknown. However, I have access to a wealth of iOS book resources and online tutorials. Also, there is learning curve to figure out XCode. I have been using Eclipse my whole life. My biggest fear is not completing the project on time (or cutting features) due to my lack of Objective C background (I am a Java guy).

Implementation Plan

I plan to implement each feature individually, first working on the non-GUI code for the feature, and then focusing on the user interface. I will eliminate unknowns and test my software by comparing the end result of my iPhone app to my pre-existing Android app. They both pull data from the same server, so the results should be the same. I will also employ my fiancée to test out the various features of my iPhone app. There isn't really a

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critical path, but if I can't get Essential Details (or About the Couple, or The Wedding Party, etc...) completed, then there is no hope for the other features, as they will be implemented similarly (talk to server, pull down text/images, and display them).

Milestones include:



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User Interface:

Login by scanning QR code:



Access grid of features:



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About the Couple feature:



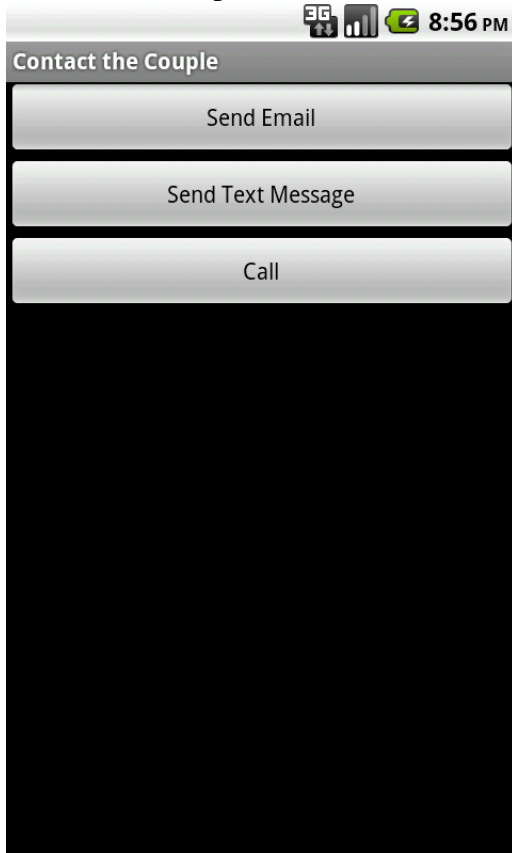
About the Couple

Rose and Jared attended the University of Virginia's School of Engineering and Applied Science. As a result, they would bump into each other on numerous occasions, especially in the computer labs. They became friends and, when final exams came around, study buddies. This friendship turned into something extra special when Rose asked Jared to a Christmas date function that her sorority was holding.



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Contact the Couple feature:



The user interface will involve with my development. I have talked to iOS developers at work, and they say the Interface Builder is really nice, which should aid me in creating a nice looking, iPhone specific UI.

Class Diagram (borrowed from my Android application):

- Model Classes
 - AboutCouple
 - Accommodation
 - AlbumImage
 - Event
 - ImageFile
 - Person
 - Registry
 - Taxi
 - Wedding
- Helper Classes
 - DatabaseHelper
 - HttpFileUploader
 - HttpUtils
 - SerializerHelper

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- XmlUtils
- “Activity” / Feature Classes
 - AboutCoupleActivity
 - AccommodationActivity
 - BeThePhotographerActivity
 - ContactActivity
 - EventsActivity
 - MenuGridActivity
 - WeddingPartyActivity
 - RegistryActivity
 - SongRequestActivity
 - StartActivity
 - TaxiActivity
 - WelcomeActivity