

MICHIGAN STATE

UNIVERSITY

Project Plan

Ford Idea Place Mobile Edition

[The Capstone Experience](#)

Team Ford

Josh Kitchens

Derek Ulch

Sam Djab

Victor Kupatavetin

Department of Computer Science and Engineering

Michigan State University

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*From Students...
...to Professionals*

Project Overview

- Mobile Idea Submission database
- Submit ideas from your phone to improve Ford
- Subscribe to other users to see their ideas
- Push ideas to other users
- Browse idea database and search by various criteria



Functional Specifications

- Submit new idea to database from phone
- Utilize phone features such as audio/video capture, gps, etc...
- Browse and search through database via easy-to-use interface
- Subscribe to other users to view their submissions, as well as push submissions to other users for them to view
- Offer achievements to incentivize users
- Achievements and idea submission can be pushed to Yammer to broadcast within Ford

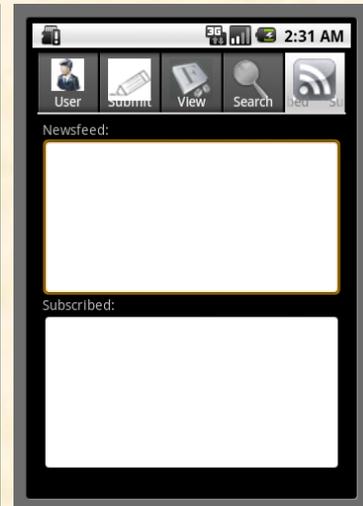
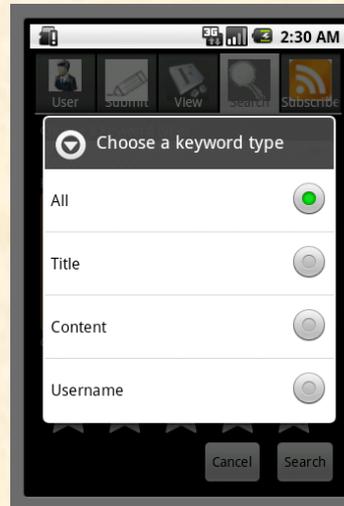
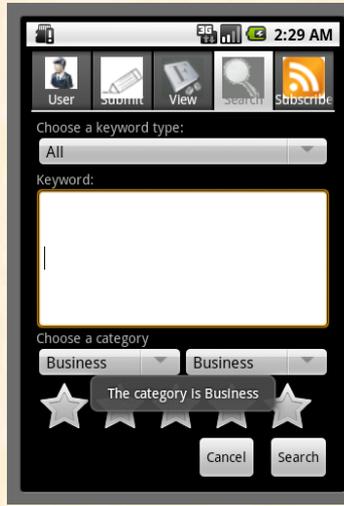
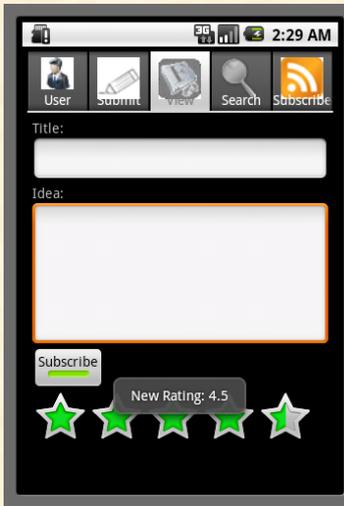
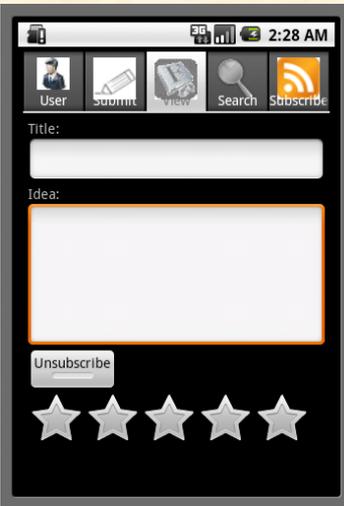
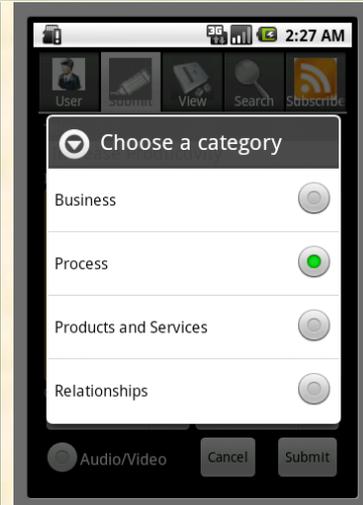
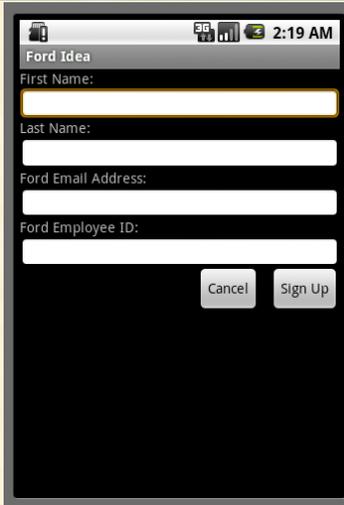
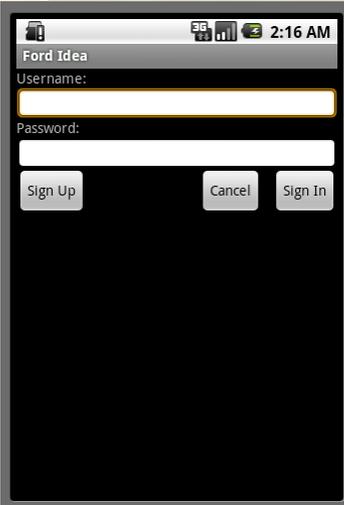


Design Specifications

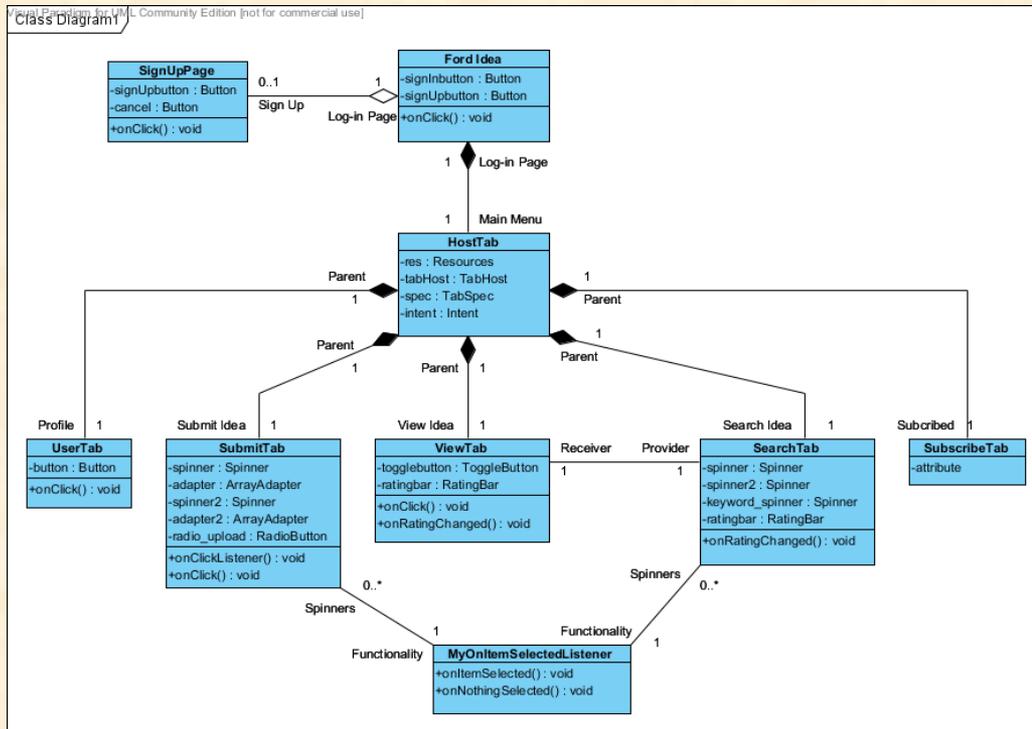
- Utilize iPhone and Android OS's
- Log in using Ford credentials which are stored, then use PIN # to open app.
- Multi-Tab menu application for fast task switching. Tabs include: View and edit user profile, search ideas, submit ideas, etc...



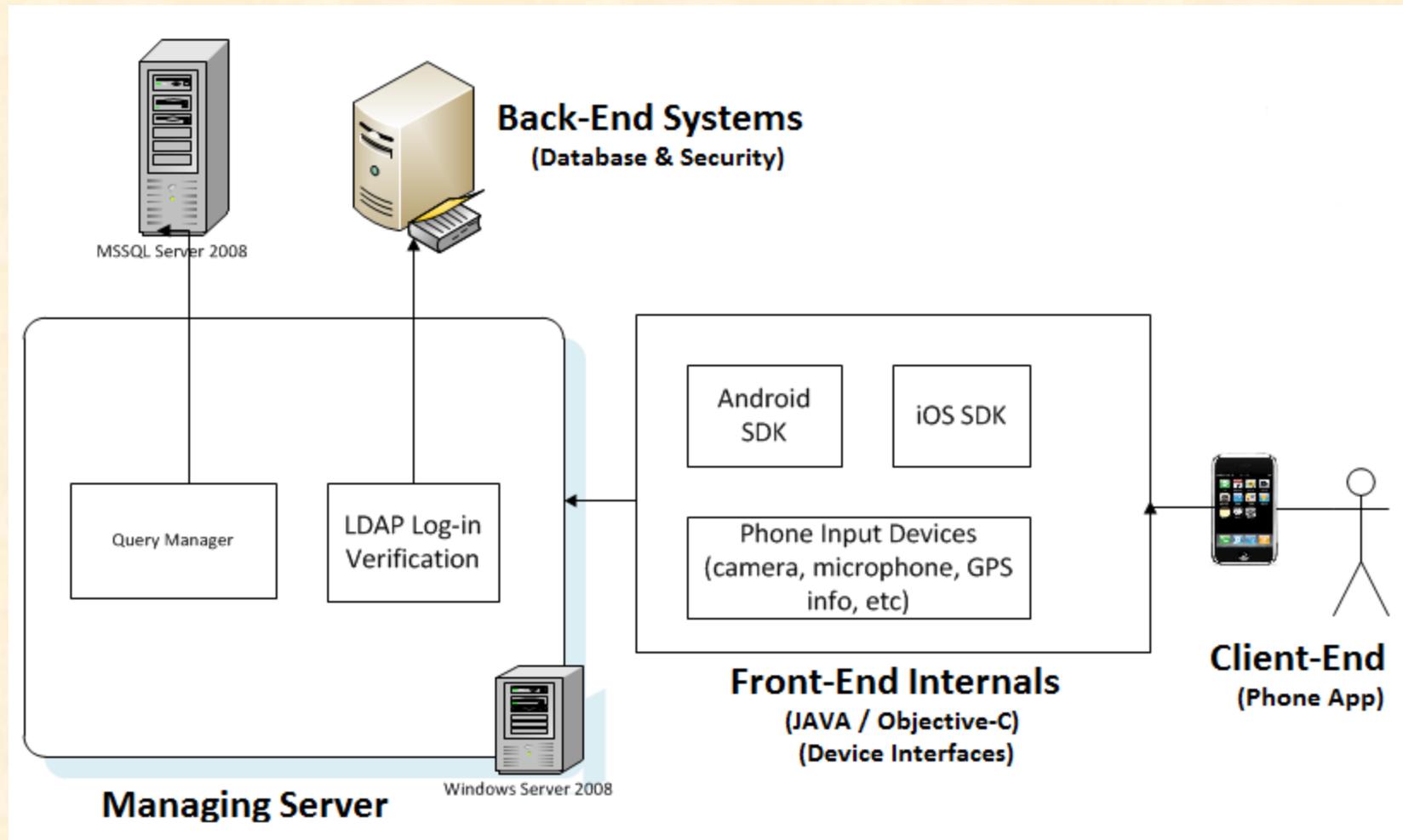
Screen Mockups



Technical Specifications



System Architecture



System Components

- Hardware Platforms
 - Android 2.x compatible phones
 - iPhone/iPod Touch
 - Windows Server
- Software Platforms / Technologies
 - Android 2.x Operating System written in Java using Eclipse IDE with Android Library Plug-in
 - iOS written in Objective-C using Xcode
 - Windows Server 2008 running MSSQL Server 2008 and Apache 2.2
 - Local LDAP server for testing purposes, later directed to Ford's LDAP server
 - VisualSVN and TortoiseSVN used for version control and backing up of Source Code



Testing

- Installing mock LDAP server for testing corporate ID log-in
- Testing UI-based Android application on phone / emulator
- Interaction between SQL and mobile devices
- Test encryption on information submitted



Risks

- No experience administering web or database servers
- No experience in any Mobile OS programming
- Little experience in selected languages
- No experience in interfacing with LDAP, SQL or Yammer servers
- No experience with SQL-Java and JDBC (Java Database Connectivity)

