FIU School of Computing & Information Sciences

VIP Vertically Integrated Projects

# Advanced Software Engineering- Fall 2016

## Phone Shopping Network Ver 1.0

**Student:** Khaja Mohammed, Florida International University
**Mentor:** *Mohsen Taheri*, Florida International University
Charles L. Green, Social Mobile , USA
**Instructor:** Masoud Sadjadi, Florida International University

### Problem

1. We are looking to do a test trial of 500 to 1000 phones that are part of the Lifeline "Obamaphone" program and hopefully expand from there. These phones are all in the hands of low income families that could benefit from great deals on necessities as well as help in establishing credit.

### Solution

- Developed mobile application that can be pushed on to the phones.
- ADUPS FOTA technology is used to push the ads.
- This Application shows user ads.
- User can purchase a product.
- Application collects user data

### Current Status

- Phone Shopping Network Ver 1.0
- As this is the first version of it, it is not completely developed

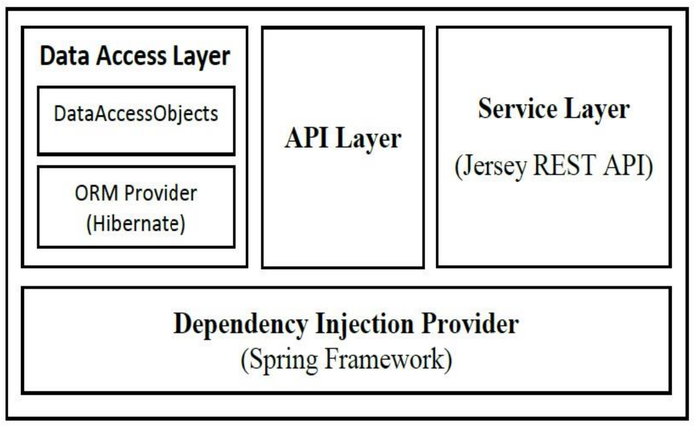
### My Core Contribution

- Registration module
- Registration UI Design
- Front-end development of Registration and Product page of the application
- Product page UI design
- Pair programming other modules

### Requirements

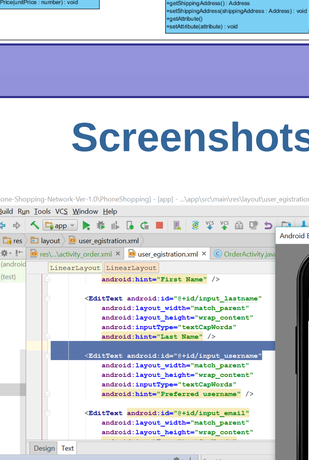
- Registration module allows user to register
- The User information is sent to the server
- The backend application is used to view & Use the information
- Registration page UI gives great look to the application
- Order Product activity gives user view product
- Order activity page UI gives great look to the application

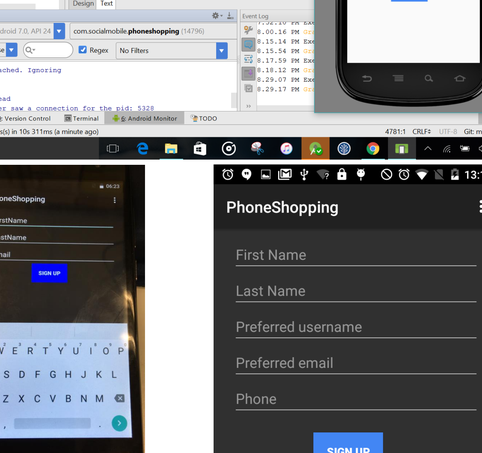
### System Design




- **Architecture is Client-Server**
- **Client side – MVC**
- **Server Side- Layered**

### Object Design




### Implementation

This application is developed using android technology, Java & XML used at client side application, Java Spring framework, Hibernate, and JSON at server side, MariaDB as a database.

### Verification

**Test case 1 (Sunny day)**

**Purpose**: To ensure that the user must register

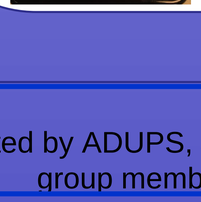
- **Precondition**: The user is not registered before
- **Expected Result**: The user registration page sends data to the server.
- **Actual Result**: The User registration page accepts data and send to the server.

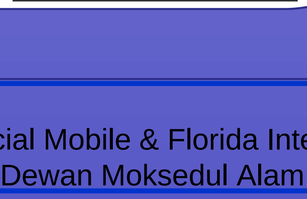
**Test case 2 (Rainy Day)**

- **Purpose**: To test if the user registration page provide unique username.
- **Precondition**: Provided already existing username during registration
- **Expected Result**: The system fails to create a user for the provided username
- **Actual result**: The server application fails to accept the information by raising an exception mentioning that a user is already present with the provided username.

### Screenshots




### Summary

The phone shopping network will provide new opportunities for both the end users and the service providers. The end users i.e. the low income families can be able to get great offers of savings. At the same time the service providers of the life line program can be able to generate revenue from the phones that remain not useful. It also helps build credit of the user.

### Acknowledgement

The material presented in this poster is based upon the work supported by ADUPS, Social Mobile & Florida International University. I am thankful to the help that I received from my group member, Dewan Moksedul Alam.