

https://github.com/dannyyiu/410coffee

# Work Breakdown

The components of this project are fairly independent of each other, can be split into small iterations, and is required for release in three months time. As such, agile methodologies will be used instead of the standard SLDC approach. Below is a breakdown of tasks required to complete this project.





= To do (more difficult)

### 1. Server



## Amazon Web Services (AWS)

- Set up server and development environment: AWS instance, security policies, SSH key pair, Linux 32-bit, Python and all required modules, Apache 2
- Hello world Django test.
- Register SSL certificate to implement HTTPS

Time required:



# Database



- Schema design
- Implement database with sqlite3 for development
- Create Django models based on schema, including dynamically named tables
- Migrate to MySQL for production
- **Load Testing**

Time required:

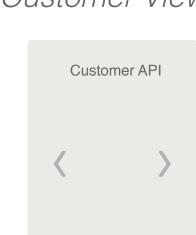


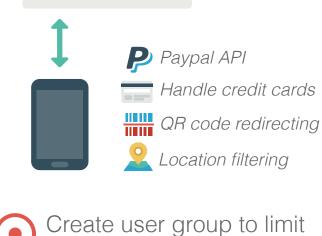


2. Web framework



### Customer View





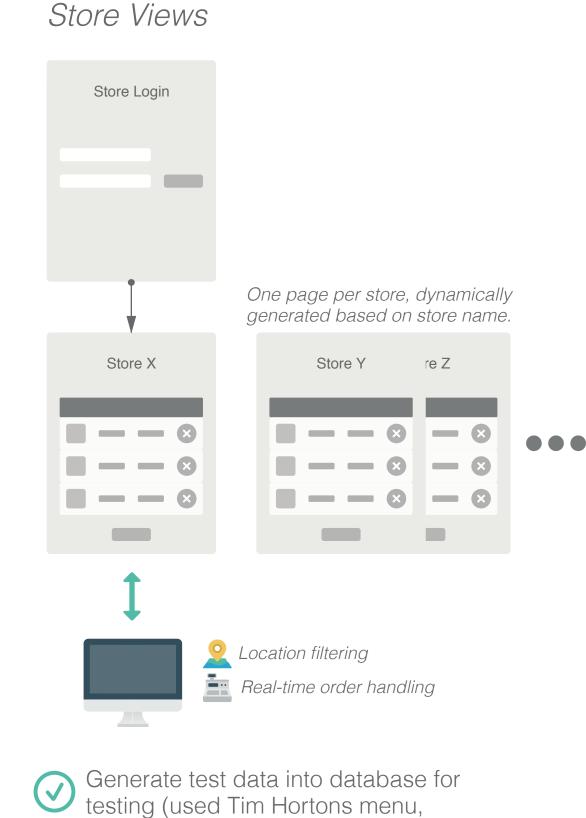
- customer permissions Design and create customer
- API to POST/GET JSON data Create automation scripts to
- simulate customer ordering in a real environment. Implement PCI compliant credit card payment

handling, or PayPal API.

Time required:







- locations, and people names from NNDB). Create the store view, dynamically listing inventory based on store name.
- Create user group to grant Store permissions.
- Dynamically display customer orders in real-time. (ie. Twisted + pyopenssl) Create functions to handle POST/
- DELETE requests. Make some automation scripts to simulate a full franchise operating

environment.

an app template. This will be used to generate apps for every store added.

Finalize a Django app for one store into

## Franchise View



Create admin pages to 1) add/delete stores and 2)

Create user group to grant

Franchise permissions.

add/edit/delete inventory for each store. Automation script to generate new a Django app

whenever a new store is

Time required:

added.



Register

Time required:

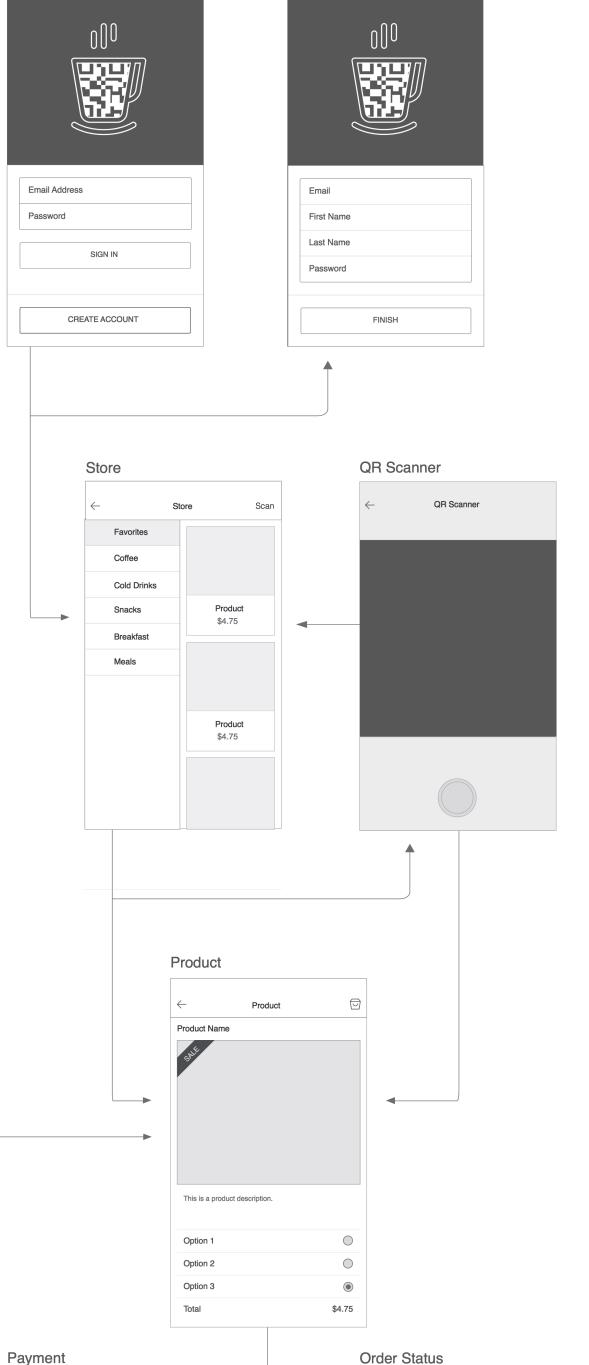






# Home/Login

3. Mobile App



Payment

PayPal

PURCHASE

Full Name

Card Number

Expiration

CVC

Month

Order Status

Order Number: #501

All app pages with correct transitions.

IDE: IntelliJ IDEA 13 with Java 1.7 compiler.

Language Level: 7.0 (instead of standard 6.0 due to zxing

Create a QR generating script, and test QR scanner.

Android: API 15+, target 19

UI: Sketch 3 SVG drawables

*library requirement)* 

Fully functional app without payment Implement credit card or Paypal API

Fully link with cloud API

Implement QR scanner

Test some pages with cloud





