MICHIGAN STATE UNIVERSITY Project Plan Mobile Audit Itinerary

The Capstone Experience

Team Auto-Owners

Jacob Burger Garrett Stevenson Ladi Oyeleye

Department of Computer Science and Engineering Michigan State University

Spring 2014



From Students... ...to Professionals

Project Overview

- Underwriting Field Service Representatives
- Updates Policy Information via Excel Sheets
- Cannot update policies on the go

Mobile Audit Itinerary App

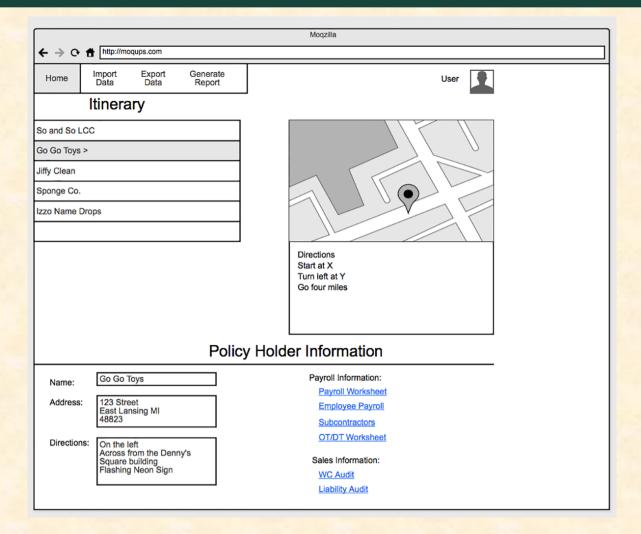
Functional Specifications

- Login System
- Collect and update policy holder information
- Manage Itinerary
- Google Map with Driving Directions
- Generate PDF Report
- Import and Export files
- Available both on and offline
- Cached locally for offline use
- Responsive Design

Design Specifications

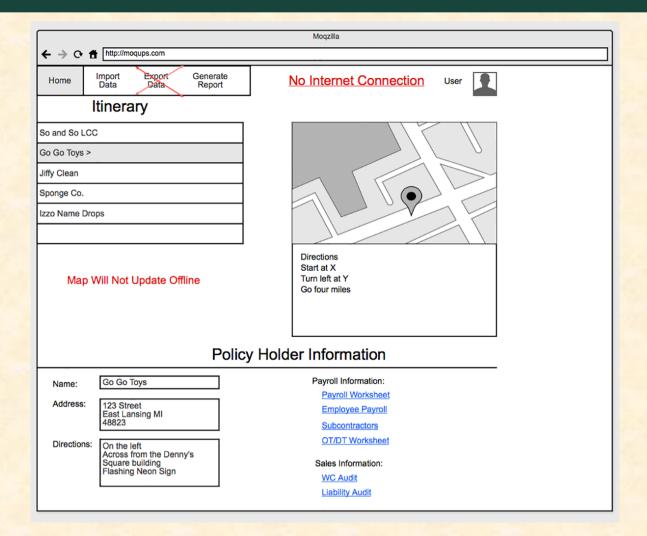
- Login Page
- Main Page
- Main Page Offline
- Mobile
- Mobile Offline
- Generate Report
- Import Data

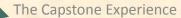
Screen Mockup: Main Page



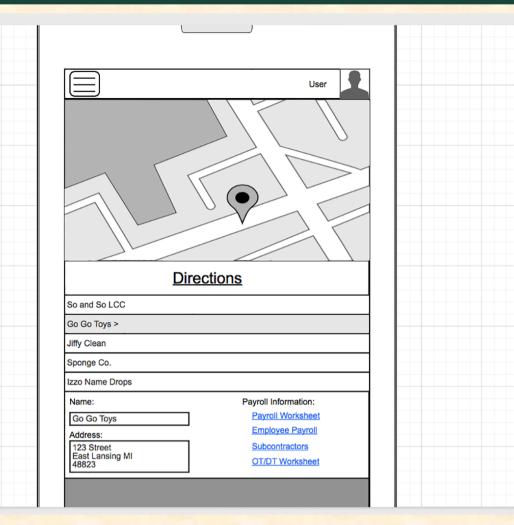


Screen Mockup: Main Page (Offline)





Screen Mockups: Mobile Application



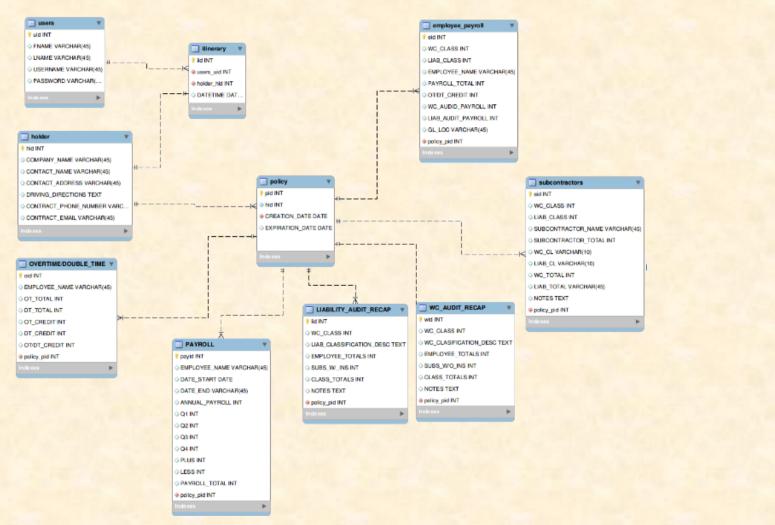
The Capstone Experience

Team Auto-Owners Project Plan

Technical Specifications

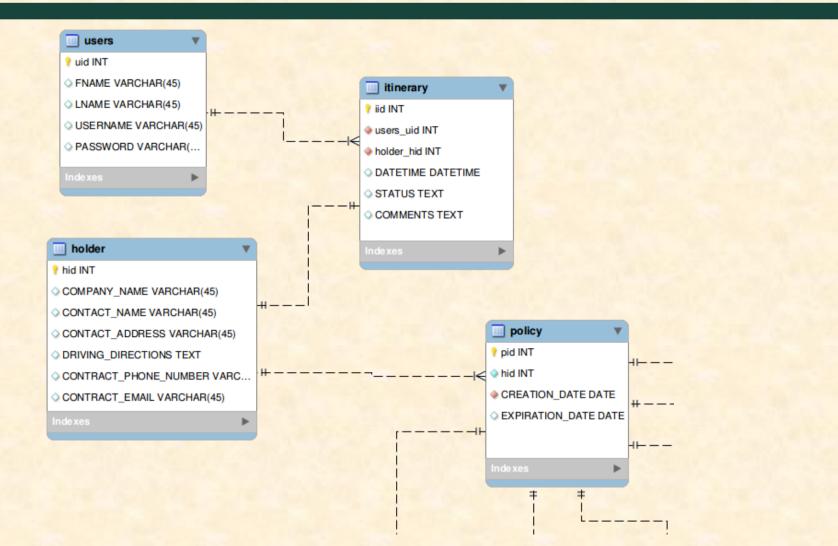
- HTML5
- CSS3
- Javascript
- jQuery
- JavaServer Pages
- Bootstrap

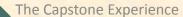
Technical Specifications



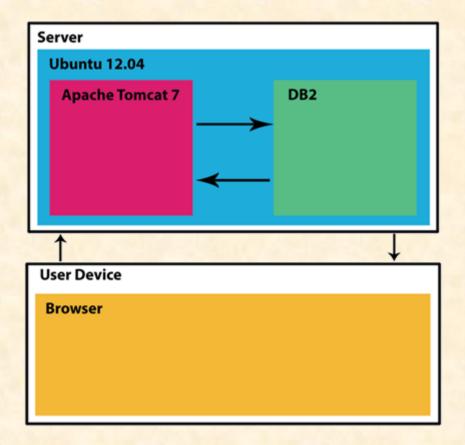
The Capstone Experience

Technical Specifications





System Architecture





System Components

- Hardware Platforms
 - Dell PowerEdge R210
 - 2.8 GHz Intel Xeon X3460
 - 8GB 1333 MHz Dual Ranked UDIMM
- Software Platforms / Technologies
 - Apache Tomcat7
 - Ubuntu 12.04
 - IBM DB2

Testing

- Rapid Prototyping
 - Offline Caching
 - User-Interface
 - PDF Generation
 - XML Import/Export
- Frequent Check-ins with Client
 - Verify Standards

Risks

• DB2 database

Client-Side PDF Generation

- HTML5 Caching
- Excel Spreadsheet Migration

