

**MICHIGAN STATE**  
**UNIVERSITY**

**Project Plan**  
**Talent Connections Careers Mobile Site**  
**The Capstone Experience**

**Team Spectrum Health**

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

# Project Overview

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- Mobile HR Website
- Search for Open Positions
- Apply for Positions
- Responsive Design
- Third-Party Integrations for Résumés
- Secure Server-to-Server Communications

# Functional Specifications

- Search for Open Positions Within Spectrum Health by:
  - Location
  - Career
  - Keyword
- Fast Track for Internal Applicants
- Responsive Design
- Third-Party Integration for Resume Uploads



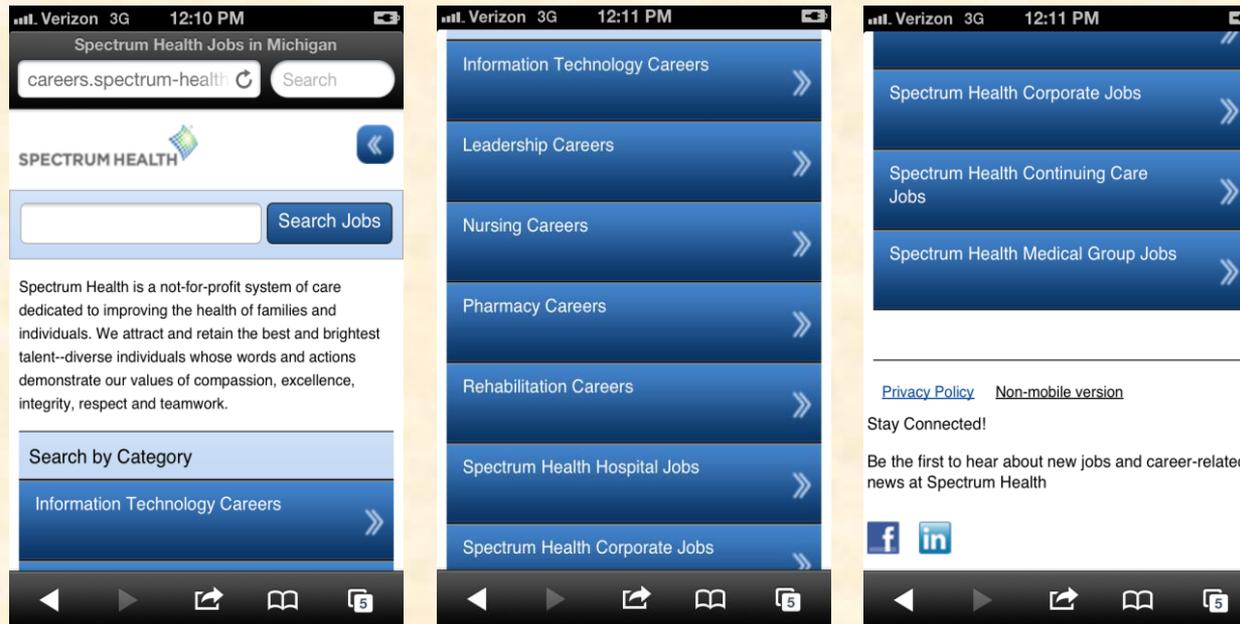
# Design Specifications

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- Use Cases
  - Apply for positions within Spectrum Health
  - Employees of Spectrum Health applying for other positions
- Main Pages
  - Landing and Search
  - Search Results
  - Position Description
  - Application



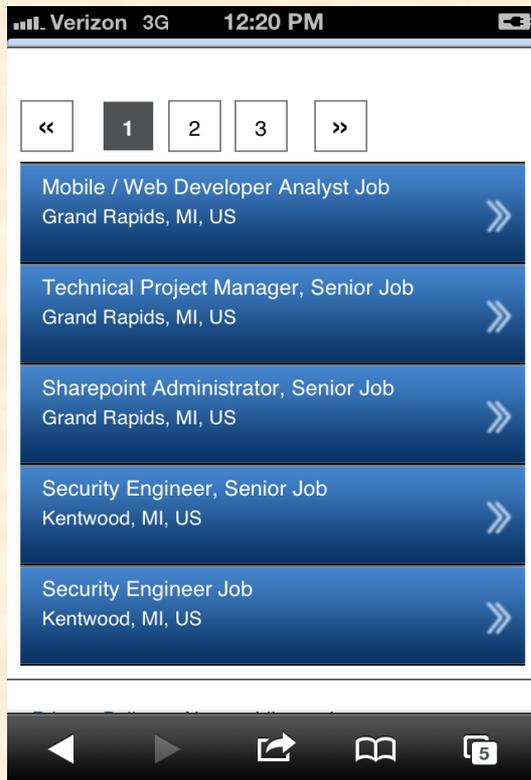
# Screen Mockups: Landing and Search



- The landing page will include a brief description of Spectrum Health
- A user may search by keyword using the search box
- A user may also search by careers



# Screen Mockup: Search Results



- Search results will be provided in a paged list format
- Each posting will include the job title and location
- A user may select a position to view the full job description

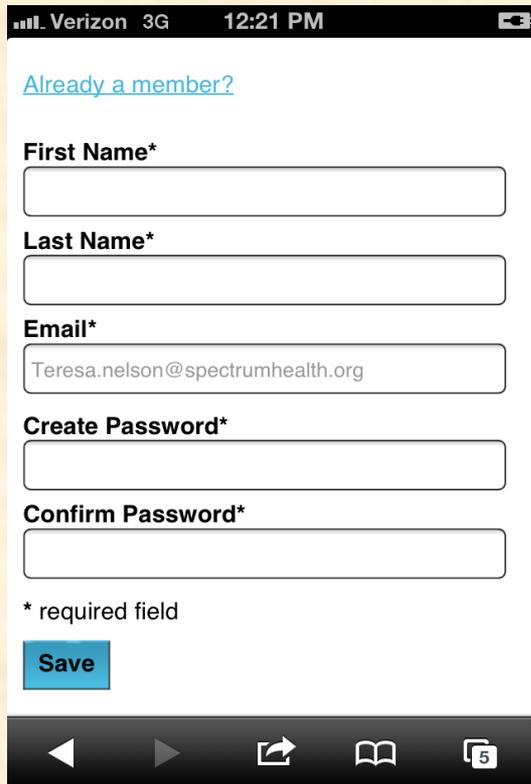


# Screen Mockup: Position Description



- The user will be able to view general details regarding the specific position he or she has chosen.
- Additional Options Include:
  - Apply for the Position
  - Search for other positions
  - Return to the previous search

# Screen Mockup: Position Description



The mockup shows a mobile app interface for creating a profile. At the top, the status bar displays 'Verizon 3G' and '12:21 PM'. Below the status bar is a link for 'Already a member?'. The form contains several input fields: 'First Name\*', 'Last Name\*', 'Email\*' (with the text 'Teresa.nelson@spectrumhealth.org'), 'Create Password\*', and 'Confirm Password\*'. A note '\* required field' is positioned below the password fields. A blue 'Save' button is located at the bottom of the form. The bottom of the screen features a navigation bar with icons for back, forward, share, home, and a notification badge with the number '5'.

- A user will create a profile using his or her basic information
- Once a profile is created, the user may upload a resume using a third-party (mockup not available)



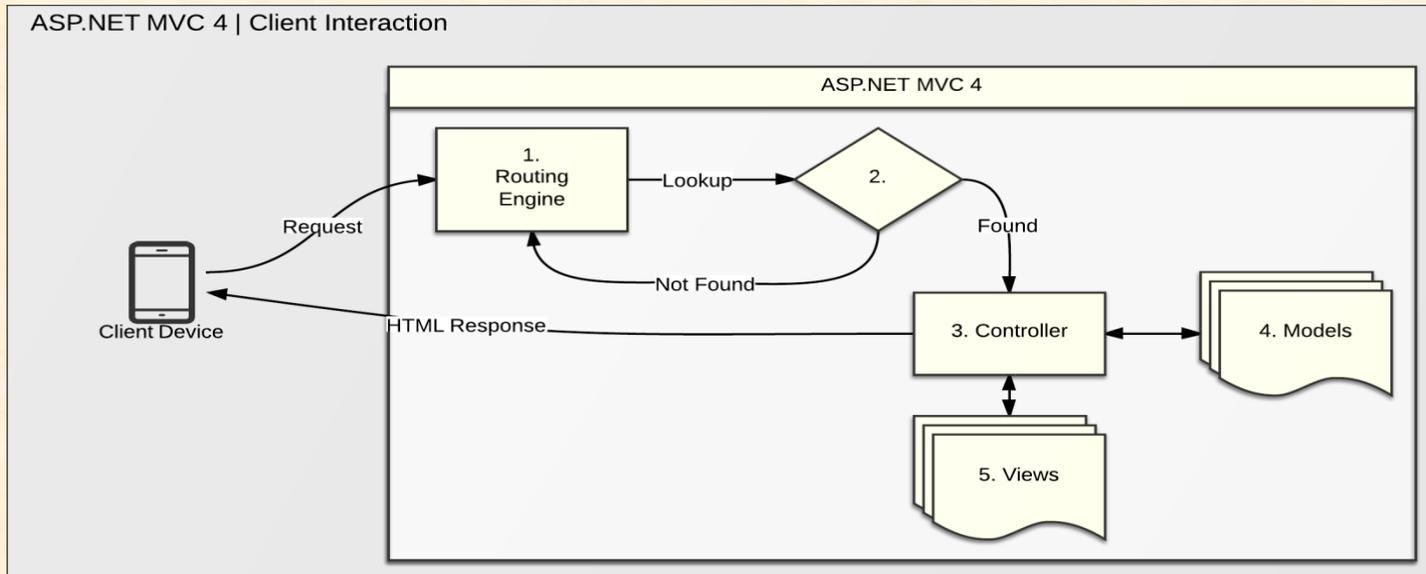
# Technical Specifications

- Simple Object Access Protocol

- SOAP with WS Security will be used for server-to-server communications

- ASP.NET MVC 4

- A web framework allowing business logic to be separated from the data and its display logic

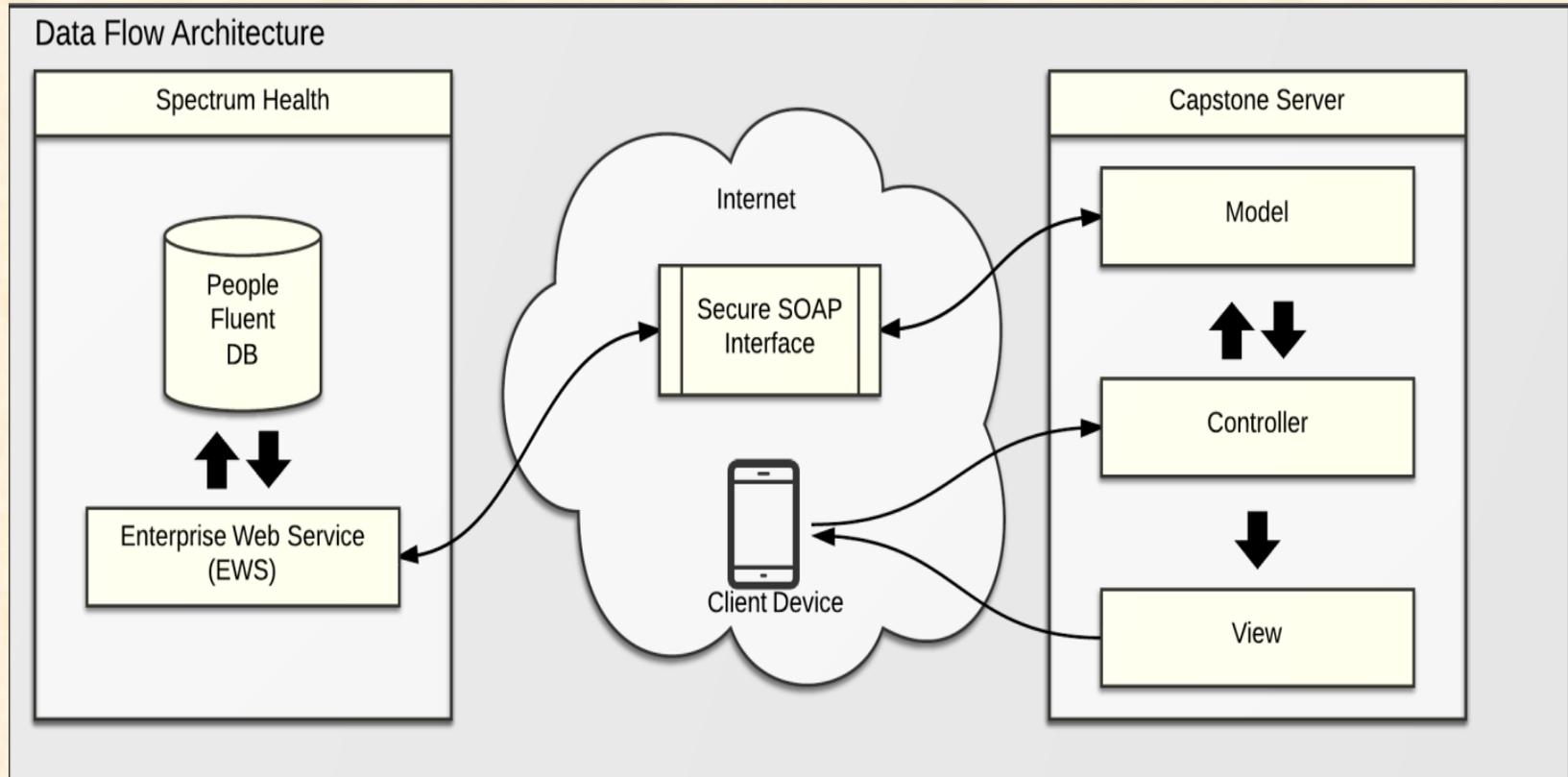


# Technical Specifications

- HTML5, CSS3
  - Using modern coding standards for HTML and CSS ensures a consistent page across all modern mobile devices
- jQuery Mobile
  - An efficient client side framework for browser detection, page transitions, ajax calls and other key requirements in mobile website development
- AngularJS
  - A client-side JavaScript framework allowing the implementation of an MV\* pattern in the development of a webpage and easy integration with a server-side REST service



# System Architecture



# System Components

- Hardware Platforms
  - Dell R210 rack mount server
  - iMac, Macbook Pro running Windows VM for development
  - iPad and other mobile devices for testing
- Software Platforms / Technologies
  - Windows Server 2008 RS
  - Visual Studio 2012
  - ASP.NET MVC 4
  - Web Technologies
    - Bootstrap
    - Font Awesome
    - jQuery Mobile
    - AngularJS



# Testing

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- Test Driven Development
  - Tests will be written for new data models and business logic before functions are created
- Client-Side Testing
  - Various test cases using SeleniumHQ for testing the UI
- Testing various mobile devices and browsers to ensure consistency



# Risks

- **Security Integrations**

- The SOAP integration with WS Security may cause the project to come to a halt due to Spectrum Servers not able to communicate with ours
- Mike Ply (Web Services Manager) has volunteered his time to help Team Spectrum Health in this endeavor

- **Uploading Resumes / Third-Party Integrations**

- The ability to submit a resume via third-party integrations presents a risk due to the lack of experience with these APIs
- Creating a realistic goal of only API integration will mitigate this risk

- **Data Layer / EWS**

- The SOAP layer for communicating to Spectrum Health's People Fluent software is not yet written
- Spectrum Health will speed development of their SOAP layer for this project by providing stubs if necessary.

