Project Plan
Volunteer Tracking App
The Capstone Experience
Team SpartanNash
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Spring 2018
Functional Specifications

• Problem
  ▪ Current Volunteer Tracking System is manual and needs to be digitized.

• Solution
  ▪ Track Volunteer Hours
  ▪ Gamify the experience
  ▪ Social Media interaction
Design Specifications

• Filling out a digitized form to track hours.

• Timeline feature to share user’s posts.

• Leadership boards.

• ChatBox
Screen Mockup: SpartanNash
Screen Mockup: SpartanNash

Username

Password

SIGN IN

Forget your Password?

Recover

Volunteer Form

Organization Name *
Enter The Organization Name

Volunteer Activity or Event Name *
Enter The Event Name

Area of support *
None selected
Area not on the list(optional)
Enter the areas

Commitment *
One Time

Date of Event *
01/29/2018

Hour of Event *

Message
Enter extra message here...

Submit →
Technical Specifications

- **Mobile Application**
  - React Native for cross-platform development in Android and iOS.

- **Web Form**
  - HTML/CSS for the front end.
  - PHP for the back end.
  - HTTP POST and GET requests to communicate with server.

- **API**
  - SpartanNash API to communicate securely with their servers.

- **Database**
  - Database to store user hours, posts and additional information.
System Architecture

MySQL

SpartanNash inSite APIs

Mobile Applications

- React-Native
  - Android App
  - IOS App

Websites

- HTML/PHP
  - Web Form
  - Admin Panel
System Components

• Hardware Platforms
  ▪ Smartphones that run IOS/Android
  ▪ Any computer with an internet connection and a web browser installed

• Software Platforms / Technologies
  ▪ React Native
  ▪ MySQL
  ▪ Jira
Risks

• Creating software for different OS and screen size.
  ▪ Software needs to adapt to device.
  ▪ Testing on diverse set of devices.

• Scalability
  ▪ Work in real time with 16,000 employees.
  ▪ Test with employees - increasing quantity incrementally.

• Utilizing different React Packages in a cohesive manner
  ▪ Selecting React Native packages that satisfy App requirements.
  ▪ Discuss with client in order to keep consistency with company standards.

• Rejection of UI/structure
  ▪ Interface or workflow may not be acceptable to user base
  ▪ Mediate with client frequently.
Questions?