Santiam Wagon Road: Self Guided Tour

Group 43 Spring MidtermProgress Presentation

Introduction

Project Introduction

- Self guided tour
- Mobile application for interpretive events
 - What is an interpretive event
- Content creation tools for Ranger service volunteers

Our Solution Overview

Three primary components:

1. Content Packages

- a. Zip archives of tour multimedia assets and map information
- b. Pre-downloaded allowing complete offline access while on a tour

2. Web Control Panel

- a. Provides administration interface for overall system
- b. Allows for creation and publishing of tours

3. Mobile Applications

- a. Cross platform between iOS and Android
- b. Shows and download available tours
- c. Act as virtual tour guide

Recap Project Purposes

Charles Henninger

Android Ul

Current Progress

Current/Recent Challenges

- Dynamic Waypoint Lists
- Storing files inside an Android device
- Media Player
- Unzipping files

Further Work

Jiawei Liu

iOS Development

Jiawei

Topics:

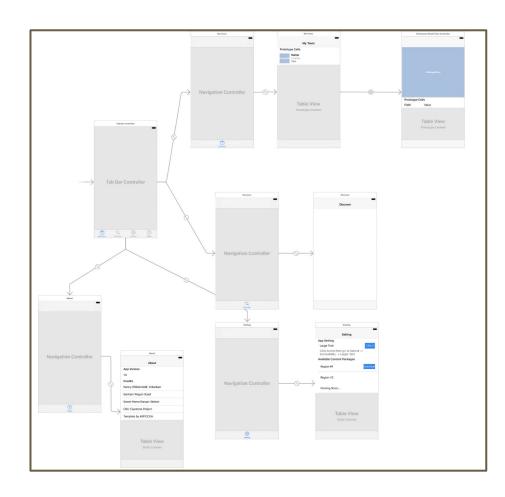
- Demo App in Expo
- Current Progress
- Things left to do
- Problems
- Solutions

```
iewController: UIVie
  weak var textView:
String = ""
rView:ViewController

func viewDidLoad()
  viewDidLoad()
```

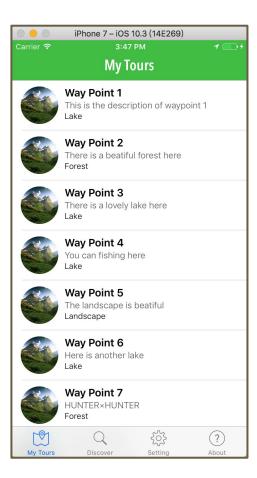
Current Process

- Finished All of Functionalities
- Tab Bar Style App
 - My Tours
 - Discover
 - Setting
 - About



Home Page -- "My Tours"

- Waypoint List
 - Title
 - Short Description
 - Picture

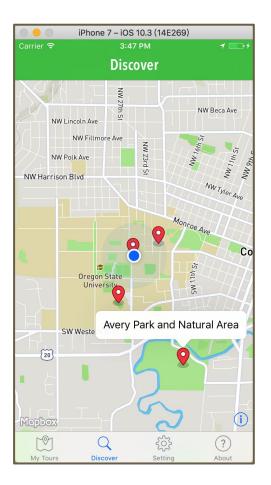


- Waypoint Details Page
 - Picture
 - Name
 - Type
 - Full Description



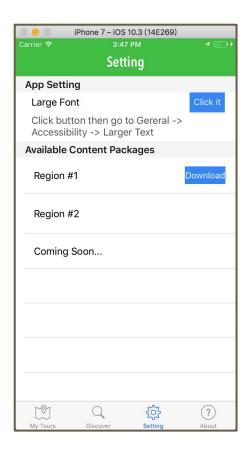
Discover Page:

- Display map via Mapbox
- User's location
- Available Waypoints
- Waypoint name



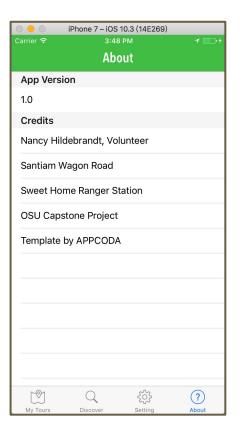
Setting Page:

- App Setting
 - Large Font
- Available Content Packages
 - More regions
 - More tours



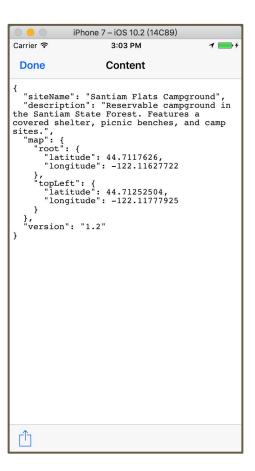
About Page:

- App Version
- Credits Info



Things left to do

- Synchronization
 - Now app read waypoint locally
 - Next step is read from the server



Problems

- Nobody familiar with iOS development
- OSU doesn't teach iOS and Swift
- Cannot have Map and List in same page
- Popular map-provider charge for offline map

Solutions

- Study iOS and swift by myself
- Find tutorials on Google and YouTube
- Re-designed iOS app by using Tab Bar Style
- Using Mapbox as the map-provider

iOS Code and Demo

Duncan

Due to the illness, Duncan cannot work for that.

Our group talked with Kevin and Kristen, they allow Duncan submit his part when he is healthy.

Sorry for the inconvenience.

Conclusion

Overall Status

Reassuring developments on mobile applications

Proof of concepts completed for:

- MapBox usage
- Dynamically fetching maps
- Offline map storage
- Using server to provide MapBox coordinates
- Basic 'tour' functionality
- A functional web control panel