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Mobile App Development

Professor Steven Cutchin

## Final Project - Project Proposal

### Introduction

Our team is developing a Hiking App dedicated to efficiently tracking and saving hiking routes. This app aims to provide a simple yet powerful tool for hikers to record their journeys with ease.

### Project Overview

Our project will focus on developing a user-friendly application that allows hikers to track their routes in real time and save them for future reference. The app will offer a clean and intuitive interface, ensuring a seamless experience for users of all skill levels.

## Blueprint

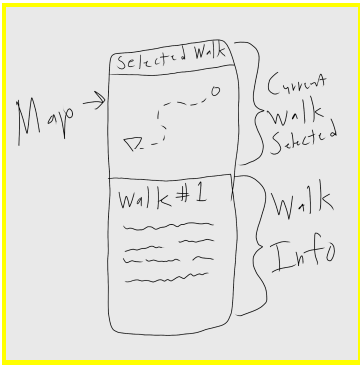
App Structure and File Hierarchy:

**App.js:** The central hub of our application, integrating all functionalities and modules.

**HikeInfo.js:** A dedicated module for tracking the ongoing hike, utilizing GPS technology to map the route accurately.

**HikeList.js:** A module designed to save the details of completed hikes, including route maps and essential statistics.

Implementations



User Manual Overview

Text

Projected Timeline

Sun - Nov 5	Mon - Nov 6	Tues - Nov 7	Wed - Nov 8	Thurs - Nov 9	Fri - Nov 10	Sat - Nov 11
x	x	x	x	x		Proposal
Sun - Nov 12	Mon - Nov 13	Tues - Nov 14	Wed - Nov 15	Thurs - Nov 16	Fri - Nov 17	Sat - Nov 18
	Create Project and Share				Started Each Planned File	
Sun - Nov 19	Mon - Nov 20	Tues - Nov 21	Wed - Nov 22	Thurs - Nov 23	Fri - Nov 24	Sat - Nov 25
			Tracking Complete		Save Hikes Complete	
Sun - Nov 26	Mon - Nov 27	Tues - Nov 28	Wed - Nov 29	Thurs - Nov 30	Fri - Dec 1	Sat - Dec 2
	Design Doc				View Previous Hikes Complete	
Sun - Dec 3	Mon - Dec 4	Tues - Dec 5	Wed - Dec 6	Thurs - Dec 7	Fri - Dec 8	Sat - Dec 9
			Complete CSS	Clean Up Lingering Problems	Arch Doc User Manual Source Code	
Sun - Dec 10	Mon - Dec 11	Tues - Dec 12	Wed - Dec 13	Thurs - Dec 14	Fri - Dec 15	Sat - Dec 16
	Final Package		Final Pres		Final Sub	

# BLUEPRINT

## Design:

The summary of our project is here. All details and requirements of the project should be listed here. Below are the files the project will be divided up into:

- **App.js**

The “main” function of the app.

- **Util.js**

Utilities for —.

- **Project.html**

Contains the “main” function of the program.

# DUE DATES

(Project Proposal Nov. 11)

Samuel:

Aidan:

Martin:

Due Date (Nov. 27)

Samuel:

Aidan:

Martin:

Due Date (Nov. ##)

Samuel:

Aidan:

Martin:

# BRAINSTORMING

## Project Ideas

### a. Hiking App

Proposed Features:

- Tracks exact path and altitude
- Plans a path
- Saves previous hikes in list

## 1. App Description and Functionality

Hiking Tracker App is a mobile application designed to cater to outdoor enthusiasts, particularly hikers. Its primary function is to enable users to track their hiking routes using GPS technology and save these routes for future reference. The app aims to be a simple, user-friendly tool for hikers to record and revisit their journeys.

Key Features:

- **Route Tracking:** Utilizes GPS to track and map the user's hiking route in real-time.
- **Route Saving:** Allows users to save their completed routes, including date, time, and distance.
- **Route History:** Users can view and manage their saved routes, providing a personal hiking history.

## 2. App Components

Core Modules to Develop:

- **GPS Tracking:** Integrates GPS functionality to track and display the user's current location and route.
- **Data Storage:** Manages the saving and retrieval of hike data, including route details and statistics.
- **User Interface (UI):** Offers a clean and intuitive design for easy navigation and interaction with the app's features.
- **History Viewer:** Allows users to view their past hikes, sort by different criteria, and select routes for more details.

### 3. User Interaction

User Journey and Interface Sketch:

- Start Screen: Simple welcome screen with a 'Start Hike' button.
- Tracking Screen: Displays a map showing the current hiking path. Buttons for 'Pause/Resume' and 'End Hike' are available.
- Save Hike: Prompt to save the hike post-completion, with options to name and tag the hike.
- Hike History: A list of saved hikes, selectable for detailed views.

### 4. Project Timeline

Weekly Goals until Final Submission:

- Week 1: Project setup, initial research, and design of the app interface.
- Week 2: Development of the GPS tracking module.
- Week 3: Implementation of the data storage module for saving hikes.
- Week 4: Creation of the history viewer and user interaction testing.
- Week 5: Integration of all modules and initial testing.
- Week 6: Refinement of UI/UX, addressing any bugs or issues.
- Week 7: Final testing, preparation of project documentation.
- Week 8: Compilation of the final package, preparation for presentation and submission.