

# Report 2

EE / CprE / SE 491 - sdmay25-06

Iowa Adventure Cyclists Course Creator

## Week 5 Report

*August 2024 - May 2025*

*Client & Faculty Advisor: Julie Rursch*

### Team Members

Kayley Clark - Technical Lead

Tanner Smith - Algorithm Architect

Nayma Garcia - UI/UX lead

Grant Pierce - Client Relation Manager

Nick Thoms - Testing

Eli Newland - Task Manager

Wan Elisa Wan Sarif - Component Design

React Native Application with GPX output that is read on Garmin Edge

Node.js backend

MySQL for database

IntelliJ for IDE

### Past Week Accomplishments

#### Everyone

- Chose the IDE we are going to use for the project

- IntelliJ for backend
- Visual Studio for front end
- Chose our coding language for the project
  - React Native for front end
  - Javascript for backend
  - SQL for database
- Set up team page
  - Uploaded reports
  - Created profiles for each member
- Communicated with advisor on meeting times
- Researched data compatibility for the projects hardware

### **Kayley**

- Coordinated team meeting to discuss project direction and tech stack choices
- Researched React Native capabilities for GPS integration

### **Tanner**

- Investigated APIs for elevation data to incorporate into route planning
- Drafted initial user interface flow for the application

### **Nayma**

- Set up team website structure and ensured all members have access
- Uploaded relevant project documents and created team member profiles

### **Grant**

- Established communication channel with the client for regular updates
- Began research on vulnerabilities related to web and mobile applications

### **Nick**

- Researched testing frameworks compatible with React Native
- Outlined initial testing strategy for the application

## Eli

- Led discussion on potential tech stacks and their pros/cons
- Researched compatibility between chosen technologies

## Elisa

- Analyzed component design patterns suitable for React Native
- Began sketching preliminary component structure for the application

## Pending Issues

- Getting Repo for project set up on our computers

## Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Kayley Clark	Worked on next steps for upcoming week, brainstormed ideas for what to get done in team meeting	1	3
Tanner Smith	Found API for elevation data. Rough drafted a list of screenviews and navigation paths.	1	3
Nayma Garcia	Obtained access to team website, uploaded documents and profiles	1	3
Grant Pierce	Conducted research on potential vulnerabilities associated with web and mobile applications and potential impacts	1	3
Nick Thomas	Worked to gather resources on testing frameworks and strategies for our application	1	3
Eli Newland	Led discussion on tech stack. Researched into different tech stack ideas.	1	3
Wan Elisa Wan Sarif	Analyzed component design patterns suitable for React Native	1	3

## **Plans for Coming Week**

Set up Bio page on website

Finish project description on website

Set up starter react native application

Work on connecting frontend & backend, mySQL setup