sdmay19-34: Context-Aware Clothing Recommendation
Week 1 Report
August 27 - September 17

Team Members

Ethan Wieczorek — *Lead Developer*
Will Parr — *Communications/Meeting Facilitator*
Christian Ehlen — *Lead Quality Assurance Engineer*
Nicus Hicks — *Head of Report Development*
Tyler Witte — *Software Project Manager*
Nickolaus Eaton — *Hardware/FW Project Manager*

Summary of Progress this Report

Over the past few weeks, we've begun narrowing down options for implementing the project. This includes deciding roles, suggesting database resources, and brainstorming hardware solutions to unique problems. Code has yet to be developed until final decisions are made for language and hardware requirements.

Pending Issues

Without making decisions on language and hardware, there's little work that can currently be done. Additionally, the longer those decisions are put off, the higher the chance that bugs will be unresolved. Some basic issues that may occur include hardware incompatibilities and external resource issues.

Plans for Upcoming Reporting Period

Over the course of the next week, research should be done on the optimal choices for database management, as well as effective hardware choices. Additionally, requirements for getting information from outside resources should be looked into.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Ethan Wieczorek	- Worked on researching database systems to use. - Worked on the lightning talk presentations. - Took a look at React Native for mobile app development.	3	3
Will Parr	- Communication with the faculty advisor/client to set up meetings as well as take meeting notes. - Gave the team reminders and provided documentation about updates. - Helped write documentation for team	3	3

	decisions revolving around technologies to use.		
Christian Ehlen	- Prepared for lightning speech presentation. - Looked into possible options for mobile app development and React Native seemed to be a good fit for the work we are trying to do. - Began research into possible backends needed for the project.	1.5	1.5
Nicus Hicks	- Looked into AWS and other database systems - Began learning Google Calendar API	2	2
Tyler Witte	- Prepared for lightning talks - Looked into Google Authentication API - Looked into affordability of RF ID tags for hardware solution.	1.5	1.5
Nickolaus Eaton	- Studied the alternative options for context clothing recommendations on the market - Determined a good weather-based sample to work from is DressRight (Google Assistant API) - Began research on the feasibility of a hanger-indicator system	1.5	1.5

Advisor meeting summary
9/10 Meeting:

Established academic problem of utilizing data from multiple outside sources to form a unique decision based on all inputs. Additionally, the following points of interest/research were brought up:

- How to tag clothing- specifically, how to keep in the system what is available and what is selected
- How to represent selections to the user
- Research existing recommendation systems- Transportation recommendation document provided
- Look into available database systems and APIs for external data sources