

EE / CprE / SE 491 - sdmay20-19
To Online Shop or To Not Online Shop
Week 1 Report
September 22 - October 6
Client: Goce Trajcevski
Faculty Advisor: Goce Trajcevski

Team Members:

Amiah Gooding - Electrical Engineer
Matthew Martin - Report Manager/Scrum Master
Max Minard - Software Manager
Smruthi Sandhanam - Meeting Manager
Travis Stanger - Test Engineer
Yana Aleksandrova - Meeting Facilitator

Past Week Accomplishments

- Design Thinking Process
 - Researched the 5 main principles of design thinking: empathize, define, ideate, prototype, test.
 - Discussed how these principles could contribute to our own development processes and ways to integrate them.
 - Diagrammed a process model that applies these principles and portrays the overall process of pursuing the project throughout two semesters.
- Created project objectives
 - Reviewed the project proposal to gain a better understanding of the clients goals of the project
 - Discussed the project with the client to ensure the correct conclusion were drawn
 - Wrote the Functional Requirements for the lightning talk
- Established communications and fileshares
 - Created Slack channel for team discussions and a way to share files
 - Created a Trello board for project management
- Design Document
 - Worked on the first version of the design document
 - Discussed objectives regarding project in more detail
 - Detailed development process and finalized date for deliverables

Pending Issues

- Deciding whether or not to use RFID vs Bluetooth for updating the database with the contents of the pantry.
- Researching and determining whether Arduino or Raspberry Pi would be the best fit for our microcontroller to process data from the sensors and communicate them to the server.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Amiah Gooding	Researching sensors, slide in presentation	2	2
Matthew Martin	Researched into using AWS for our backend solutions and how it can be used for an iOS application.	2	2
Max Minard	Researching backend technologies, created presentation slides.	2	2
Smruthi Sandhanam	Research microcontrollers for project. Worked on presentation slides.	2	2
Travis Stanger	Created ways of communication for the team as well as fileshares, created presentation slide	2	2
Yana Aleksandrova	Research IOS application solution, presentation slide	2	2

Plans for Coming Week

- Types of Sensors - Amiah
 - Researching current types of sensors used for IOT purposes
- Educate on IOS - Yana
 - As a team member that has only done android development, familiarizing myself with the IOS process by starting to reach up on it
 - Preparing for our next meeting with questions and discussion for our client
 - Prepare next lightning talk, start version 1 design document
- Begin Customizing Website - All
 - Get more documents updated to website
 - Customize front page to give a description of the project with a diagram
 - Edit the About the Team page
- Additional research into AWS - Matt
 - Look into the exact infrastructure that will be needed

- Start to lay out the plan for using AWS with an iOS project
- Raspberry Pi versus Arduino
 - Figure out which microcontroller would be the best for communicating between the sensor and server
 - Research cost and benefits of each one and report findings back to team