

SDMAY18-37 - System and app for managing general faculty/staff parking on ISU campus
Advisor: Ahmed E. Kamal

Donavan Brooks: Backend Lead
Derrick Lockwood: Team Lead
Joseph Krajcir: Quality Assurance
John Ingwersen: Mobile Master
Riley Snyder: Webmaster
Mason Schreck: Communications Lead

Weekly Summary:

This week we each took a look at things that will enable us to complete the design plan. This ranged from looking at technologies to planning out the schedule, and taking a first look at possible implementation locations. We also discussed possible options for equipment purchases with our initial budget of \$500 and any possible extra funds that may come from the parking division.

Past Week Accomplishments:

Donavan Brooks: Finalized dates and basic tasks in order to create overall project timeline for our project plan v1. Began to do research on Tensorflow and object recognition.

Derrick Lockwood: Building model in Tensorflow, designed workflow for project, worked on project plan, research into color schemes and name.

Joseph Krajcir: Surveyed several parking lots and took pictures of possible camera placements. Worked on project plan.

John Ingwersen: Created template iOS application handling Firebase as well as a new UI.

Riley Snyder: Finished project website v1. Researched networking ideas for raspberry pis along with power options.

Mason Schreck: Researched functional requirements and IP cameras, and worked on the project plan.

Pending Issues:

Donavan Brooks: None

Derrick Lockwood: Finding color schema and name.

Joseph Krajcir: None.

John Ingwersen: Waiting on the OK to use Firebase or if something else must be used since it is a google service. UI improvements and more pages.

Riley Snyder: None.

Mason Schreck: None.

Individual Contributions:

Name	Individual Contributions	Hours This Week	Hours Cumulative
Donavan Brooks	Project Plan contributions and informed myself and more technologies we will be using for this project	3	11
Derrick Lockwood		3	18
Joseph Krajcir	Contributed to project plan, surveyed parking lots	3	11
John Ingwersen	Basic iOS application to show Firebase capabilities.	3	12
Riley Snyder	Website v1 & researched power solutions.	3	11
Mason Schreck	Researched camera solutions, brainstormed a basic architecture, and worked on project plan	2	12

Comments and extended discussion:

Plan for coming week:

Donavan Brooks:

Derrick Lockwood: Starting to implement and save model versions to git.

Joseph Krajcir: Research viable cameras to use.

John Ingwersen: Look into other database options in case we do not get approval for Firebase.

Keep thinking of other ideas for UI.

Riley Snyder: Add project plan to website. Finalize possible options for networking and power.

Mason Schreck: Get a basic Android application updating with dummy data from Firebase.

Summary of weekly advisor meeting: