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:

Past Week Accomplishments:
Donavan Brooks: Finished script to create training and evaluation datasets.
Derrick Lockwood: Implemented predictor to asynchronously look for file changes and run prediction and output the result to tensorflow. Also added logging system. Started training model on new dataset.
Joseph Krajcir: Completed graphical overlay for lot 7, including support for handicap spots. Handicap and non-handicap spots are counted separately in the master branch app.
John Ingwersen: Added handicap support for lots and spots within app and db.
Riley Snyder: Fixed the spot image format and got the service running automatically on the pi.
Mason Schreck: Filtered data to hide and show based upon active status, showed that different DOM elements are not exempt from this, researched angularfire website structuring.

Pending Issues:
Donavan Brooks: Add clickable aspect to admin tool
Derrick Lockwood: Firestore entity write operations overflow from predictor need to optimize locally. Where the camera is going to be located in the parking lot 7.
Joseph Krajcir: Rework overlay screen so the lot selected will show the correct lot image.
John Ingwersen: Get the lot overlay library working with iOS dependencies.
Riley Snyder: Getting the script to recover from errors and start up correctly after reboot
Mason Schreck: Design

Individual Contributions:

Name	Individual Contributions	Hours This Week	Hours Cumulative
Donavan Brooks	Training, data collection,and dataset creation	7	86

Derrick Lockwood	Predictor, Logger	10	110
Joseph Krajcir	Completed graphical overlay	8	71
John Ingwersen	Mobile app improvements	8	78
Riley Snyder	Formatting, Daemon	9	80
Mason Schreck	Filter data, html manipulation	8	78

Comments and extended discussion:

Plan for coming week:
Donavan Brooks: Train model for upcoming week
Derrick Lockwood: Get a trained model plus evaluation of model and work on presentation for the upcoming Thursday.
Joseph Krajcir: Rework overlay screen to show the correct lot upon selection. Decide on the functionality of how the overlay is shown
John Ingwersen: Get the application to run on both iOS and android with all current dependencies.
Riley Snyder: Have script running 100% autonomously with no need for human intervention.
Mason Schreck: Solely design

Summary of weekly advisor meeting: