Instrument Recognition Software
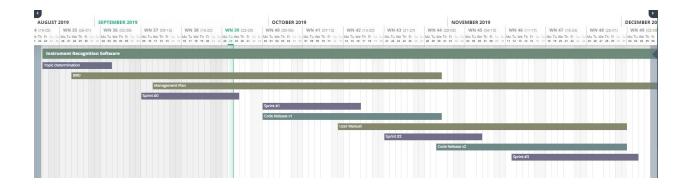
Management Plan

A strategic approach to the development and timely

export of machine learning software by Team Six

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Gantt Chart: 9/23/19

The gantt chart allows us to visualize what our allocated time are on a graph. This allows us to

use and keep track of our time wisely. It can also be used to plan future events so that we will not

be late in turning in assignments. Overall, it is just an efficient way to view our allocated time on

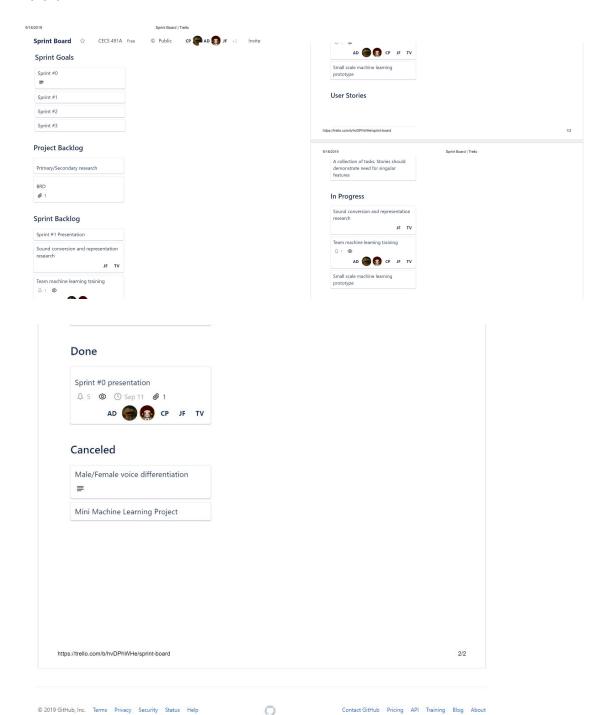the project.

Project Tracker Matrix

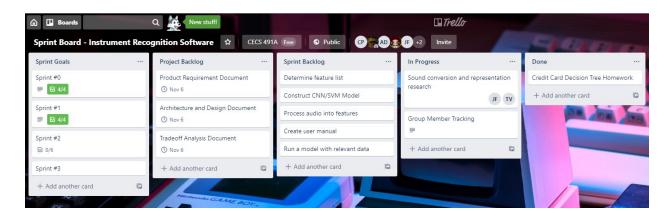|													
Project:	Instrument Recognition Software					Project Team:	1						
Start Date:	9/9/19					End Date:	11/4/19						
Task	Task Type	Task Status	Est SLOC	Actual SLOC	Priority	Assigned To	Assigned Date	Deadline	Estimated Hrs	Start Date	End Date	Hrs Done	% Done
Primary Research	Marketing	Re-Opened	N/A	N/A	High	Joe	10-Sep-19	15-Sep-19	6	10-Sep-19	15-Sep-19	8	100
Secondary Research	Marketing	Re-Opened	N/A	N/A	Medium	Aleks	10-Sep-19	13-Sep-19	5	10-Sep-19	13-Sep-19	4	100
User Stories	Marketing	Re-Opened	N/A	N/A	Medium	Axel	15-Sep-19	18-Sep-19	4	15-Sep-19	18-Sep-19	2	100
Segment Profile	Marketing	Re-Opened	N/A	N/A	Medium	Aner	15-Sep-19	18-Sep-19	2	15-Sep-19	18-Sep-19	2	100
SWOT Analysis	Marketing	Re-Opened	N/A	N/A	High	Cuong	15-Sep-19	18-Sep-19	2	15-Sep-19	18-Sep-19	2	100
Monetization/Commercialization	Marketing	Re-Opened	N/A	N/A	Medium	Axel	15-Sep-19	18-Sep-19	2	15-Sep-19	18-Sep-19	2	100
Market Segments	Marketing	Re-Opened	N/A	N/A	Medium	Aner	15-Sep-19	18-Sep-19	2	15-Sep-19	18-Sep-19	2	100
Project Tracker	Development	In-Progress	N/A	N/A	Low	Joe	15-Sep-19	18-Sep-19	2	15-Sep-19	18-Sep-19	2	100
Gantt Chart	Development	In-Progress	N/A	N/A	Medium	Cuong	15-Sep-19	18-Sep-19	2	15-Sep-19	18-Sep-19	2	100
Burndown Chart	Development	In-Progress	N/A	N/A	Medium	Thomas	15-Sep-19	18-Sep-19	2	15-Sep-19	18-Sep-19	2	100
Front End	Development	In-Progress	1000	800	Low	Aleks	9-Oct-19	16-Oct-19	4	9-Oct-19	16-Oct-19	4	10
Architecture Design Diagram	Development	Completed	N/A	N/A	High	Aleks and Cuong	9-Oct-19	13-Oct-19	6	9-Oct-19	13-Oct-19	6	100
Architecture and Design with Trade Off Analysis Document	Development	Completed	N/A	N/A	High	Cuong	9-Oct-19	16-Oct-19	4	9-Oct-19	16-Oct-19	4	100
Architecture Low Level	Development	In-Progress	N/A	N/A	Medium	Aleks and Axel	9-Oct-19	16-Oct-19	4	9-Oct-19	16-Oct-19	4	100
High Level Architecture	Development	In-Progress	N/A	N/A	Medium	Aleks and Axel	9-Oct-19	16-Oct-19	4	9-Oct-19	16-Oct-19	4	100
Management Plan	Development	Completed	N/A	N/A	High	Aleks, Aner, Axel, Cuong, Joe and Thomas	20-Sep-19	25-Sep-19	4	20-Sep-19	25-Sep-19	4	100
Product Requirement Document	Development	In-Progress	N/A	N/A	High	Aleks, Aner, Axel, Cuong, Joe and Thomas	6-Oct-19	11-Oct-19	4	6-Oct-19	11-Oct-19	4	100
Trello Sprint Board	Development	In-Progress	N/A	N/A	Medium	Aleks, Aner, Axel, Cuong, Joe and Thomas	25-Sep-19	30-Sep-19	2	25-Sep-19	30-Sep-19	1	100
Burndown Chart	Development	In-Progress	N/A	N/A	Low	Thomas	13-Oct-19	16-Oct-19	2	13-Oct-19	16-Oct-19	2	100
PowerPoint Sprint # 0	Presentation	Completed	N/A	N/A	High	Aleks, Aner, Axel, Cuong, Joe and Thomas	28-Aug-19	11-Sep-19	2	28-Aug-19	11-Sep-19	2	100
PowerPoint Sprint # 0 Final	Presentation	Completed	N/A	N/A	High	Aleks, Aner, Axel, Cuong, Joe and Thomas	18-Sep-19	2-Oct-19	2	18-Sep-19	2-Oct-19	2	100
Decision Tree Working Model	Machine Learning	Completed	100	120	Medium	Joe	10-Sep-19	15-Sep-19	10	10-Sep-19	15-Sep-19	8	100
PowerPoint Sprint # 1	Presentation	Completed	N/A	N/A	High	Aleks, Aner, Axel, Cuong, Joe and Thomas	9-Sep-19	23-Sep-19	2	9-Sep-19	23-Sep-19	2	100
PowerPoint Sprint # 2	Presentation	Completed	N/A	N/A	High	Aleks, Aner, Axel, Cuong, Joe and Thomas	30-Oct-19	4-Nov-19	2	30-Oct-19	4-Nov-19	2	100
Music Recommendation for Data Appreciation Assignment	Class Assignment	Completed	N/A	N/A	Medium	Aleks, Aner, Axel, Cuong, Joe and Thomas	23-Oct-19	30-Oct-19	6	23-Oct-19	30-Oct-19	6	100
Gradient Descent Assignment	Class Assignment	Completed	N/A	N/A	Medium	Aleks, Aner, Axel, Cuong, Joe and Thomas	23-Oct-19	30-Oct-19	6	23-Oct-19	30-Oct-19	6	100
Credit Card Assignment	Class Assignment	Completed	500	250	Medium	Aleks, Aner, Axel, Cuong, Joe and Thomas	23-Oct-19	30-Oct-19	6	23-Oct-19	30-Oct-19	10	100
Setting up the database	Development	In-Progress	15	5	High	Aleks	30-Oct-19	4-Nov-19	3	30-Oct-19	4-Nov-19	3	90
Instruction Manual	Marketing	Completed	N/A	N/A	Medium	Aleks, Aner, Axel, Cuong, Joe, and Thomas	23-Oct-19	30-Oct-19	3	23-Oct-19	30-Oct-19	3	100
Updated Management Plan	Marketing	Completed	N/A	N/A	Medium	Cuong	30-Oct-19	4-Nov-19	2	30-Oct-19	4-Nov-19	2	100
Credit Card Assignment Demo	Class Assignment	Completed	N/A	N/A	Medium	Thomas	23-Oct-19	30-Oct-19	6	23-Oct-19	30-Oct-19	6	100
Sprint # 0 Hours Spent		34	Hours										
Sprint # 1 Hours Spent		35	Hours										
Sprint # 2 Hours Spent		36	Hours										

Task Management Velocity

The time length for Sprint 2 was 11 days and in the beginning of the sprint the team projected that it'd take about 84 hours to complete all of our tasks. In the end we discovered that we gave too much time for all of the tasks and finished most of our work around 36 hours. The graphs below shows an in depth view of what our tasks are. The group decided that each task would take around 2-6 hours each.
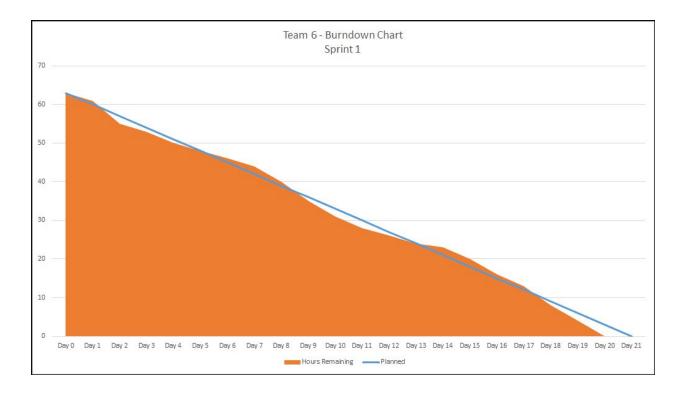
Sprint Board

Before

After

Burndown Chart

Team 6 - Burndown Chart
Sprint 1

Sprint Retrospective

What worked well?	What could be improved?
What will we commit to doing in the next Sprint?	Scrum Team members make actionable commitments

Currently we have succeeded in clearly defining roles for each member. However, we still need to improve on our cooperation and communication, as we still are overlapping workspaces and do not fully comprehend machine learning. We will make sure to have clear communication between each other without too much noise as well as at least nearly have a complete understanding of machine learning and how to design a learning program on our own.

We were able to meet most of out sprint goals and got most of the deliverable on time. We finished a majority of the tasks we had on sprint #0, however, we faced a few minor setbacks due to scheduling interview question appointments for the primary research. Our team's velocity is estimated to be around 90 hours. Since we have a team of 6 and each of us is approximately doing 5 hours each week for 3 weeks. The burndown chart looks like we have a steady linear workflow with our 11 day plan. We completed a majority of out goals over the averaging about

9% of our work per day. We did not really allocate much towards programming, but it did cover

much of the document's writeup.