

Fall Term

Week 1

Monday, September 25, 2017

6:14 PM

Submitted preferences for project.

Week 2

Tuesday, October 3, 2017

6:38 PM

Plans: Find out my project and group.

Problems: Since the project is a research project, the characteristics of a completed project were hard to define.

Progress

Summary: Got project assigned and met my partner. We had a meeting with our client to talk about general project goals and deliverables.

Week 3

Monday, October 9, 2017

8:27 PM

Plans: Start getting to know the Kinect SDK and more confident in devising a solution for the project. Meet with our TA Juneki for the first time. Send problem statement to client to get approval.

Problems:

Summary

Worked on Problem Statement, met with TA.

Week 4

Tuesday, October 17, 2017

2:33 PM

Plans: Meet with Mehmet and Jose, get more information/code from previous work. Learn how data is being put into csv/excel file.

Get approval for problem statement.

Problems:

Summary:

Met with Mehmet and Louis to talk about short term goals (fall term).

Week 5

Wednesday, October 25, 2017
2:27 PM

Plans:

Meet with Heidi from Samaritan to learn about physical therapy techniques to plan our requirements.

Problems

Summary

Met with PTs, worked on Requirements document.

Week 6

Wednesday, November 1, 2017
2:53 PM

Plans:

Meet with client to get approval for Requirements doc.

Watch PT DVD to figure out what exercises to use.

Do the course for observing patients.

Problems:

Summary

Finalized Requirements doc

Week 7

Friday, November 3, 2017
4:59 PM

Plans

Decide which PT exercises to implement

Observe patients

Brainstorm start/stop rules

Problems

Summary

Observed a Parkinson's patient at Samaritan.

Week 8

Sunday, November 12, 2017

7:42 PM

Plans

Have ideas for exercises and start/stop rules ready for Thursday's client meeting.

Complete tech review rough draft

Progress

Summary

Peer reviewed Tech Review.

Met with Mehmet and Jose to tell them about patient observing, possible exercises to implement, and clearing up data collection needs.

Week 9

Thursday, November 16, 2017

6:50 PM

Plans

Complete final draft of Tech Review

Start design doc

Progress

Summary

Submitted Tech Review final draft, might get negative feedback on the "Development Environment" part.

Week 10

Friday, November 24, 2017

10:36 PM

Plans

Complete Design doc.

Client meeting.

Hopefully get a Kinect to take home over break?

Progress

Summary

Completed Design Document

Winter Term

Week 1

Monday, September 25, 2017

6:14 PM

Plans

Begin working on UI, get familiar with SDK
Establish regular meeting time with Mehmet

Progress

Downloaded SDK

Summary

Downloaded SDK, have yet to begin development
Didn't get Kinect

Week 2

Tuesday, January 16, 2018

2:30 PM

Plans

Meet with Client
Meet with TA
Get Kinect hardware from McGrath
Make a simple UI

Progress

Got Kinect sensor

Summary

Got a kinect sensor. Looked at sample programs from the SDK.

Week 3

Friday, January 19, 2018

2:00 PM

Plans

Make a simple UI
Implement body tracking

Progress

Looked at Kinect samples and chose which ones to use in our project

Summary

Planned out how we'll implement the first goal of our project

Week 4

Sunday, January 28, 2018

6:27 PM

Plans

Demo initial basic UI and body tracking to Mehmet

Get joint tracking to work

Progress

Completed first basic UI

Summary

Implemented body tracking and simple UI.

Met with Dr. Nemhard, Mehmet, and other members of the kinect project

Week 5

Monday, February 5, 2018

3:33 PM

Plans

Work on Poster and Progress Report

Have an Alpha ready by Week 6

Progress

Got application closer to alpha demo

Started integrating gesture recognition

Summary

Worked on Poster and Progress Report

Adjusted UI for alpha demo

Encountered problems with body tracking display being misaligned

Changing display window size caused problems

Started adding gesture recognition, breaks application

Week 6

Sunday, February 11, 2018

4:58 PM

Plans

Submit Poster and Progress Report

Fix body tracking display issues

Get gestures to work

Progress

No progress made on actual project

Focused on getting progress report done

Summary

Finished progress report

Week 7

Monday, February 19, 2018

6:49 AM

Plans

Get gestures to work

I will use Kinect, Louis will use Vitruvius

Progress

Summary

Didn't make progress on the project due to last minute things, schedule conflicts

Week 8

Monday, February 26, 2018

5:28 PM

Plans

Use Vitruvius to implement gestures

Progress

Build errors averted by moving our code to DiscreteGestures sample project

Learned that we can do gesture recognition with less complicated methods

Summary

Gave up on Kinect VGB

Implemented the ArmRaise gesture with Vitruvius

Week 9

Tuesday, March 6, 2018

10:45 AM

Plans

Finalize UI for beta

Fix UI navigation issues

Implement two gestures

Have a counter for gestures

Export data to csv

Progress

Changed UI to have individual exercise pages accessible from the Exercises page

Got code to export to csv

Summary

Added more user feedback in the UI

Week 10

Monday, March 12, 2018

12:41 PM

Plans

Make our project feature complete

- Add report generation page with csv collection

- Add Data Collection Settings option

- Have each exercise page detect its exercise

Progress

Summary

Finished progress report doc and slides

Added reports page

Added data collection settings page

Csv export for each exercise

Spring Term

Week 1

Monday, September 25, 2017

6:14 PM

Plans

Work on fixing page loading/lag issues

Work on report generation

Set up meeting time with client

Register for Expo

Progress

Summary

Registered for expo and sent model release forms

Week 2

Friday, April 13, 2018

2:24 PM

Plans

Meet with Mehmet, clarify what we will have complete

Work on bugs

Progress

Fixed UI issues by using Pages and Navigation Service

Added data visualization to report generation

Summary

Met with Mehmet to talk about expectations for final product, got feedback

Addressed some bugs in beta

- Re-created UI using pages instead of user control

- Used navigation service to navigate between pages (has its own garbage collection)

- Added report visualizations

Met with Kirsten to talk about client evaluation

Week 3

Wednesday, April 18, 2018

2:39 PM

Plans

Complete new UI version with added fixes

Work on poster

Progress

Poster done

Summary

Finished poster, sent to Junki and Kirsten for feedback

Week 4

Sunday, April 22, 2018

6:46 PM

Plans

Add changes to poster from feedback

Submit poster

Add updates/fixes to new UI

Progress

Summary

Finalized poster, submitted to canvas

Polished UI

Now developing everything on KinectPT project

Week 5

Sunday, April 29, 2018

2:14 PM

Plans

Write Progress Report and presentation

Finish Report Generation and Data Collection

Progress

Report generation – reads from csv file of one exercise and displays it

Summary

Worked on report generation, data collection UI, and started progress report

Week 6

Sunday, May 6, 2018

2:34 PM

Plans

Finish data collection settings and reports page before code freeze (Friday)

Progress

Finished data collection feature

Summary

Completed data collection and reports

Week 7

Monday, May 14, 2018

6:23 PM

Plans

Polish reports page and node clipping for expo

Progress

Got feedback from expo attendees

Summary

Polished project for expo

Expo happened

Week 8

Thursday, May 24, 2018

12:26 PM

Plans

Rep input

Node clipping

Documentation

Final report and presentation

Progress

Summary

Implemented rep input

Week 9

Tuesday, May 29, 2018

11:28 AM

Plans

Node clipping

Documentation

Final report and presentation

Remove unnecessary folders on github

Progress

Summary

Cleaned and commented code

Removed unnecessary folders on github

Formatted final paper

Outlined final presentation

Week 10

Thursday, May 31, 2018

5:29 PM

Plans

Clean and comment code and test by WEDNESDAY

Debug reports page

Return Kinect on THURSDAY

"hand off" project to Mehmet via email WEDNESDAY

Finish presentation by FRIDAY

Progress

Final testing of product. Fixed remaining bugs.

Summary

Tidied up and commented code

Tested application and fixed remaining bugs. Mainly issues with data settings affecting csv export

Returned Kinect Hardware

Handed off project to client via email

Completed final presentation