Priscilla Carbo

Professor Akbas

SE451 – 01DB

February 8, 2022

Engineering Notebook Spring 2022

**January 13th, 2022**

* Started first sit-down meeting

**January 18, 2022**

* Spoke to professor akbas regarding goals for the project this semester
* Specifically asked for utilization of landmarks, numbers, and coordinates to be used in an algorithm
* We could do this multiple ways, using a cnn
* Can we use these faces and create an algorithm that would find the landmarks on the face automatically
* Since we already have marked faces, we can train the network and test it using other additional faces
* Group decided and agreed to utilize numbers to pinpoint and assign the landmarks on the face instead of manually selecting them on the images
* Goal is to focus software on the accuracy of selecting the landmarks on the face, specifically only 10 points on the face
* We could use the images from the previous group since they are flat 3d images for pinpointing the landmarks on the face
* Research must be conducted regarding facial recognition; Maree has already some research on this in the past

**January 20th, 2022**

* Talked to akbas regarding the dataset of significant points
* Shared database with jarod to use a subset for our model
* Explained that we need to use some type of task tracker like scrumwise or senhub to check our progress and what each member is working on and prefers zunhub because its directly integrated w github
* Looking into which NN model were gonna be using and finishing product backog by next Tuesday

**January 24th, 2022**

* Discussed the new product vision with scoped project and product goals
* Marvins was able to draft up the product vision and the rest of the group also corrected and added up
* Group discussed potential user stories and items on the product backlog to be added

**January 25th, 2022**

* Was not in class due to car troubles and going to get them fixed
* Assisted in adding some of the product backlog items to the zenhub
* Received the significant landmarks from the face to be manually added onto the synthetic faces
* Reviewed the product vision that was created by marvin

**January 26th, 2022**

* Worked on finalizing the product backlog

**January 27th, 2022**

* Notes were provided by akbas on tasks to complete for the semester and progress to be provided
* Create cluseter of the faces that is similar to each other using KNN to show it to akbas (wants to see it)
* Check synthetic faces, if we can mark landmark on it or not on the digitized website
* If we are able to mark the landmark, include the synthetic faces
* There is a tool to manipulate faces to create more data base (??)
* Research resource: 3D face scans
* Big goal later in the term: use GANZ to create an image after rhinoplasty
* Bigger database
* Better accuracy

**February 1, 2022**

* Discussed the clustering that was done by jarod and marvins assistance
* Jarod didn’t include the significant landmarks and ratios that were given to the group by akbas; akbas insisted we use those significant landmarks
* Also discussed facial recognition usage for detection of landmarks on faces by training the model using synthetic faces
* Maree, alex, and I are looking more into this
* Marvin is looking more into using the GANs for modeling

**February 3rd, 2022**

* Marvin and Maree continued discussing GANs for the modeling of the product
* Group also kept discussing the SRS and SDD
* Modeling needs to be completed for the design documents
* Group completed the first deliverables of the SRS and SDD with final reviews

**February 7th, 2022**

* Group got together to discuss the sprint one presentation
* I was not in attendance for this meeting as I had class until 8 pm
* Group updated me later in the evening regarding all the slides I needed to complete for the presenation

**February 8th, 2022**

* Group got together prior to the class to go over the presentation slides one last time
* Group presented sprint one summary later that day
* Need to meet with the product owner during the week to discuss results