22/3 2020 FYP meeting

Attendees:

Henry, DB62607

Roy, DB625396

Professor Yuan Wu.

Discussion:

Determine the new deadline of FYP and the hardware and software requirements of our FYP.

Discuss how we should further implement and improve the main functions.

Challenges:

Optimize the database to match the main function

Further improve the main function

Schedule:

Based on the demo to further optimize the database so that the database can cooperate with our entire system

Code about recommender system:

def predict(i, m):

numerator = 0

denominator = 0

*for* neg\_w, j in neighbours[i]:

*try*:

numerator += -neg\_w \* deviations[j][m]

denominator += abs(neg\_w)

*except* KeyError:

*pass*

*if* denominator == 0:

prediction = averages[i]

*else*:

prediction = numerator / denominator + averages[i]

prediction = min(5, prediction)

prediction = max(0.5, prediction) *# max rating is 0.5*

*return* prediction

train\_prediction = []

train\_target = []

*for* (i, m), target in usermovie2rating.items():

prediction = predict(i, m)

train\_prediction.append(prediction)

train\_target.append(target)

test\_prediction = []

test\_target = []

*for* (i, m), target in usermovie2rating\_test.items():

prediction = predict(i, m)

test\_prediction.append(prediction)

test\_target.append(target)