**ACS673 Software Engineering**

**Team 5 : FaFi**

**Meeting Minutes**

All meeting minutes are kept in this single document. The latest meeting minutes should be at the beginning of the document. For example, meeting 3 minutes is placed before meeting 2 in the document. The team leader should prepare a basic agenda for the meeting and team members should rotate to be the minutes taker. Each group should have at least one meeting per week, and you may have multiple meetings if needed.

**Meeting 8 (Iteration 3)**

**Date and Time:** 10/15/2022 6pm PST 6:13- 6:47

**Place**: Zoom

**Participants:** Brendan Truong, Derric Syme, Zengrui Luo, Patounezambo Ouedraogo, Aiden Chang

**Minutes taker:** AidanChang

**Timekeeper:** AidanChang

**Purpose:** Discuss Iteration 2 and future work

**Agenda:**

Go over Iteration 2 feedback. Discuss, refine and wrap up the project.

**Discussions:**

1. Went over Iteration 2 feedback.
   1. Not sure about progress report points deduction. Will double check to ensure everything is consistent.
   2. Account security: what does “authentication weak” means?
2. Discussing how we want to define email notifications
3. Adding a Landing Page
4. Set up a time to record the final presentation

The work to do including

1. Aidan adding a Landing Page in between the Login page and detection page.
2. Brendan Refine History Page, email notification restrictor.
3. Zengrui and Pat working on login integration
4. Derric notification email integration to DB
5. Matt update PivotalTracker

The potential risks including

1. What does “weak authentication” mean?

**Meeting 7 (Iteration 2)**

**Date and Time:** 10/9/2022 9 pm EST

**Place**: Zoom

**Participants:** Brendan Truong, Derric Syme, Zengrui Luo, Patounezambo Ouedraogo, Aiden Chang, Matthew Kluska

**Minutes taker: Patounezambo Ouedraogo**

**Timekeeper:**

**Purpose: Discuss Iteration 2 and future work**

**Agenda:**

1. Update on where we are
2. Update on what’s left to be done

**Discussions:**

Brendan, Derric, Zengrui, Patounezambo, gave updates on what they worked on.

Matthew reported on the status of the history page that Aiden was working on.

Matthew asked whether the image and predication metadata should be put in the history tab using a method inside the object\_detection class or in app.py as a function.

Brendon stated we could implement it in app.py.

Derric stated that Matthew, Zengrui and Patounezambo would need to do the presentation together this time as a means to meet the requirements. We agreed to coordinate and work together and then decide whether to have Matthew present it on behalf of all of us.

The work to do including

1.Presentation

2.Integration testing of microservices

3.History tab updates

4.login finalization

5.Addition of diagrams

The potential risks including

1.Trouble Connect microservices

2.Inaccurate ML predictions

3.Unforseen malfunctions

. 4.Take care when updating any of the parts in SPPP and any other document to conform to the feedback.

Login implementation

**Key Decisions:**

Matthew, Patounezambo and Zengrui will work on presentation

Patounezambo and Zengrui will work on login

Derric will make development branch

Zengrui and Patounezambo implement the flask login.

Brendan works on CSS.

We need more diagrams.

If any body encounters any issues, take a screenshot and send it Aidan

**Action Items:**

Iteration2 and lab3

**Meeting 6 (Iteration 2)**

**Date and Time:** 10/1/2022 9 pm EST

**Place**: Zoom

**Participants:** Brendan Truong, Derric Syme, Zengrui Luo, Patounezambo Ouedraogo, Aiden Chang, Matthew Kluska

**Minutes taker: Zengrui Luo**

**Timekeeper:**

**Purpose: Discuss Iteration 2 and future work**

**Agenda:**

Discuss what to do next

**Discussions:**

Matthew provides the agenda in iteration2. Including

1.Work so far

2.Work to do

3.Potential Risks

4.Future Work

5.Q&A

The work to do including

1.Connect microservices

2.Integration testing of microservices

3.v2 of features

a.Prediction from picture to video

b.stream video via webcam instead of upload picture

4.Notification/Alarm features

5.Implementation of Testing Strategy(Selenium)

The potential risks including

1.Trouble Connect microservices

2.Inaccurate ML predictions

3.Errors inserting data into our SQL DB(nulls/messy data) via video

4.Breaks when upgrading features to v2

5.Testing uncovers systematic errors that lead to a huge delay.

Derric mentioned the integration test should have a higher priority.

The CSS and html needs to be updated. Including the home page, history tab and notification tab.

Aidan provides an idea about history. So our final goal is when people are detected, it saves a video as history. But in order to avoid nothing for the final application, we save the screenshot as interim.

Aidan and Matthew discussed the details about saving screenshots.

Derric checked the details about the notification tab. For the notification tab,we indicate whether or not a person is detected.

Discussion on lab3.

Login function need to be implemented.

**Key Decisions:**

Matthew takes the history tab.

Derric takes the notification tab.

Zengrui and Patounezambo implement the flask login.

Brendan works on CSS.

Aidan works on screenshot .

**Action Items:**

Iteration2 and lab3

**Meeting 5 (Iteration 1)**

**Date and Time:** 09/25/2022

**Place**: Zoom

**Participants:** Brendan Truong, Derric Syme, Zengrui Luo, Patounezambo Ouedraogo, Aiden Chang, Matthew Kluska

**Minutes taker: Patounezambo Ouedraogo**

**Timekeeper:**

**Purpose: Discussion on Iteration 1**

**Agenda:**

**Update on the project**

**Discussions:**

Brendan gave update on the code he was working on

Aiden shared what he did on his end and will continue working on how to detect a person as well as discover how many people are being detected.

Matthew provided his thoughts on what Aiden was to work on. The difficult question is how to determine how to pass a picture or video into the database. After some discussion, we decided we can convert the image into a string and pass it to the database.

Aiden asked why can’t we put images directly into the database? Matthew explained that since an image can be converted into a series of letters and numbers, that makes it more feasible.

Aiden asked whether it’ll be better to only save into the history tab only when a person is detected or will it save the whole stream all the time? Matthew stated that it’ll only be reading the stream…

It was explained that we can create a folder in the desktop where it’ll be saved, and we’ll link to that folder in the database.

Colab which is like a jupyter notebook in the cloud could be used as well.

**Key Decisions:**

**Aiden to create the release this week**

**Everyone to Work on progress reports**

**Action Items:**

**Meeting 4 (Iteration 1)**

**Date and Time:** 9/17/2022 9:00 PM EST

**Place**: Zoom Meeting

**Participants:** Brendan Truong, Derric Syme, Zengrui Luo, Patounezambo Ouedraogo, Aiden Chang

**Minutes taker: Brendan Truong**

**Timekeeper: Brendan Truong**

**Purpose:**

Discuss next steps in Iteration 1

**Agenda:**

Discuss iteration 1 required documents

Discuss project design and implementation steps during iteration 1

Go over upcoming assignments (Lab 2, Quiz 1)

**Discussions:**

First the team went over all the required documents for the next iteration’s submission.

Documents are to be led by the corresponding team roles or volunteers, however all members will be involved in reviewing and contributing as necessary.

README.md - Derric

Presentation - Brendan and Aiden

SPPP - Partition sections according to team roles, directed by Pat

Risk Management - Zengrui

SDD - Aiden

STD - Brendan

Progress report - Matt

Meeting minutes - Volunteers

Code - All team members

Next the team discussed the project. Aiden and Matt had found a few interesting ML models regarding face detection using MTCNN.

To add more value and substance to the project, the team is opting to swap the planned cat detection model with this face detection model. The framework of the project (web application, processes, plans) are still the same, however the core model is now face recognition.

The idea is that the application can detect faces based on an image or video and alert the user.

The team then discussed different ideas, such as coding the web framework with flask, discussion regarding the model and how it works, the need of cameras for video feed, etc.

The ending context of the meeting was that everyone was to focus on the assignments due the upcoming Tuesday, and in the meantime explore relevant tutorials, guides, and readings regarding our projects.

Key features of the web framework and the ML model are to be focused on this iteration.

Additional features with facial recognition after our base PoC is done.

**Key Decisions:**

The team will be refactoring our project, to focus on a facial recognition model rather than a cat detection model.

The team will focus on doing their assignments due Tuesday, along with researching relevant tutorials, guides, and readings.

Thereafter, the team will partition parts of the project’s codebase for iteration 1 submission.

**Action Items:**

Do Quiz 1 and Lab 2

Research tutorial, guides, and readings

**Meeting 3 (Iteration 0)**

**Date and Time:** 9/11/2023, 5:30PST

**Place**: Zoom Meeting

**Participants:** Zengrui Luo, Matthew Kluska, Brendan Truong, Aidan Chang, Derric Syme, Patounezambo Ouedraogo

**Minutes taker:** Aidan Chang

**Timekeeper:** Aidan Chang (45 minutes)

**Purpose:** To answer any questions from iteration 0 assignments

**Agenda:** Discuss individual iteration 0 assignments questions if any. Then talked about how we going to collaborate the iteration 0.

**Discussions:**

Matt gave a quick ran down on how we going to implement the ML model.

In order to minimize the frequencies of the meetings, we all decided to contribute to SPPP individually in our own time by Monday 6 pm EST the latest, then Matt will conduct the final approval/changes to the collaborated SPPP by Monday 9 pm EST.

We also had a brief discussion on the concept of the project presented by Aidan. No agreement or decisions were made as it was just a briefing since SDD is not dued till Iteration 1.

**Key Decisions:**

Each team member will contribute to the assignment before team leader conducting final approval to minimime the frequencies of the meetings.

**Action Items:**

Team member SPPP contribution is due Monday 6pm EST.

Team leader SPPP final approval/changes is due Monday 9pm EST.

**Meeting 2 (Iteration 0)**

**Date and Time:** 9/10/2022 8:00pm ET

**Place**: Zoom

**Participants:** Zengrui Luo, Matthew Kluska, Brendan Truong, Aidan Chang, Derric Syme, Patounezambo Ouedraogo

**Minutes taker:** Derric Syme

**Timekeeper:** N/A

**Purpose:** Continue organizing iteration 0

**Agenda:** Narrowing down what kind of computer vision we’re thinking of. Team roles

**Discussions:** We’d like to do image recognition, starting with cat identification. We may expand the program to include more images.

Other features:

Report confidence level

Report accuracy

Metrics recording

Roles on team:

Team Leader - Matt

Design and Implementation Leader - Aidan

Configuration Leader - Derric

QA Leader - Brendan

Requirement Leader - Pat

Security Leader - Zengrui

SDD - Aidan

STD - Brendan

Meeting Minutes - Derric

Progress Report - Matt

Risk Management - Zengrui

Software Project Proposal and Planning - Pat (all participate)

Doc/CS673\_presentation1\_teamX - Derric

**Key Decisions:** Settled on a computer vision application, initially focused on cat identification.

**Action Items:** Assignments

SDD - Aidan

STD - Brendan

Meeting Minutes - Derric

Progress Report - Matt

Risk Management - Zengrui

Software Project Proposal and Planning - Pat (all participate)

Doc/CS673\_presentation1\_teamX - Derric

**Meeting 1 (Iteration 0)**

**Date and Time:** 9/9/2022 7:30pm ET

**Place**: Zoom

**Participants:** Zengrui Luo, Matthew Kluska, Brendan Truong, Aidan Chang, Derric Syme

**Minutes taker:** Derric Syme

**Timekeeper:** Matthew Kluska

**Purpose:** Introduction

**Agenda:** Introductions

**Discussions:** What would we like to do for our project.

**Key Decisions:** We think we’d want to use AI/ML, maybe with computer vision. Perhaps comparing cats

**Action Items:** All team members will review possible project proposals.

Below is an example from a previous project (You shall delete this part in your meeting minutes)

**Date and Time:** 1/26/12 7 - 8PM

**Place**: Group Phone Call

**Participants:** Dan Spuches, Grace Hopkins, Craig Cato

**Minutes taker:** Dan Spuches

**Time Keeper:** Craig Cato

**Purpose:** Project Kickoff Meeting

**Agenda:**

* Determine group name
* Determine project name
* Provide effort hours so far
* Finalize communication plan
  + Google group vs. Trello
* Find and discuss related works
* Google code
  + Create project site
  + File a test bug
  + Check in/out a test document
* Brainstorm requirements
* Discuss risks
* Determine an approach/process to use
* Assign roles

**Discussion:**

* Determine group name
  + Is this the same as project name? Yes
* Determine project name
  + Yet another weight tracker - taken
  + Yet another weight program - YAWP
    - Don't want to make YAWP noise when you stand on the scale
  + BodyStats
  + Yet another weight history program
  + Yet another weigh-in program
  + Yet another weight oriented program
* Provide effort hours so far
  + Members will email hours spent so far to Grace
  + Need to decide start/end of week
    - Week starts Saturday, ends Sunday
* Finalize communication plan
  + Google group - email distribution
  + Google code - upload and track all documents (including agenda, minutes, etc)
  + Trello - Discussions/brainstorming/to-do and completed tasks
* Find and discuss related works
  + http://download.cnet.com/Weight-Tracker/3000-2129\_4-10458217.html
  + weightchart.com
    - Web based
  + weightwatchers.com
    - Web based
  + Our project is standalone, not web based, open source (differentiator)
* Google code
  + Create project site
  + File a test bug
  + Check in/out a test document
  + SVN or GIT?
    - We will use SVN
    - Tortoise SVN for windows
  + What license will we use?
    - Apache 2.0
    - What are the terms?
    - Need to tag all works with the license text from http://www.apache.org/licenses/LICENSE-2.0
* Brainstorm requirements
  + Functional
  + Non-functional
  + Desktop java standalone client
  + Not networked
  + Single user per instance
    - Future - multiple users
  + Need to be able to enter weights
  + Calculate BMI
  + Charting over time
    - Export charts?
    - Daily weight change
    - Monthly weight loss
    - Trending of data
    - Projections
  + Target weight
  + Sounds?
    - Applause for loss
    - YAWP for gain
  + Computerize printed charts
  + Print charts/data
  + Export and save functions
  + Options
    - Configurable units
      * English vs metric
      * LBS vs KG vs Stones?
* Discuss risks
  + New tools - not understanding/knowing how to use tools
  + Schedules - work and home life
  + Keep it simple/limit scope creep
  + Originality - what differentiates us from others?
  + Multiple user functionality - may be too time consuming
  + Limited time for project as a whole
* Project criteria
  + Usefulness - nobody has yet found the best way to do it, there are a lot of other ones out there, none are right yet?
  + Complexity - will be sufficiently complex
  + Originality - it is original because Craig created the concept
* Determine an approach/process to use
  + Waterfall with feedback/iteration
    - Ability to revisit requirements and re-shuffle priorities
    - Need to build in the ability to respond to risks as they arise and difficult requirements
  + Possibly some agile concepts/aspects - prototype and test driven
  + JUnit testing - test driven development
* Assign roles
  + Grace - Leader and QA
  + Craig - Configuration Mgmt
  + Dan - Implementation

**Key Decisions**

* Project name is YAWP - yet another weight-tracking program
* Google code
  + https://code.google.com/p/yawp/
  + We will use SVN on Google code
  + Source code license - Apache License 2.0
  + Labels - health, academic, java
* Time tracking
  + Week start on Sunday
  + Week end on Saturday
  + Get time to Grace by noon on Sunday
* Communication Plan
  + Use Google group for email communication
  + Use Trello for task tracking (to-do and complete) and discussions/brainstorming
  + Use Google Code for document and code repository, version control
* Roles assigned:
  + Grace - Leader and QA
  + Craig - Configuration Mgmt
  + Dan - Implementation

**Action Items:**

* Review terms of Apache license - Dan, Craig, Grace
* Submit time to Grace by noon Sunday - Dan, Craig, Grace