**CS673 Software Engineering**

**Team 1 : PennyWise**

**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 17**

**Date and Time:** 10/17/2023 @8:00 PM EST

**Place**: Discord

**Participants**: Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Chaitanya Saraogi, Sean Rawson

**Minutes taker:** Jisoo Lee

**Timekeeper:** 100 min

**Agenda:**

* Recording for the iteration 3 demo video
* Final checking with documentations and Github status

**Discussion:**

* Recording demo video
* Final check up with the documentations and codes

**Action Items:**

* Finalize all the documentations and codes in Github.

**Meeting 16**

**Date and Time:** 10/16/2023 @7:00 PM EST

**Place**: Discord

**Participants**: Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Chaitanya Saraogi, Sean Rawson

**Minutes taker:** Jisoo Lee

**Timekeeper:** 70 min

**Agenda:**

* Code progress since last meeting
* Our deadline and progress with documentations
* What needs to be done before the deadline for iteration3.

**Discussion:**

* Backend updates:

Clyde fixed the database issue and updated Heroku deployment.

Chaitanya wants to add the functionality of notification in the frontend.

* Frontend updates:

Jisoo updated the user creations with the google authentication data and log out button.

Mali organized the pages, and debugged the endpoints after the user creation method was implemented.

Brian added presentations and other documentations. Working on addCategories part which needs backend code updated.

**Action Items:**

* Fill out individual progress reports and any other documentation
* Update progress in Jira.
* Merge branch when all done.

**Meeting 15**

**Date and Time:** 10/15/2023 @7:00 PM EST

**Place**: Discord

**Participants**: Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Chaitanya Saraogi, Sean Rawson

**Minutes taker:** Jisoo Lee

**Timekeeper:** 50 min

**Agenda:**

* Code progress since last meeting

**Discussion:**

* Backend updates:
* Clyde is working on deployment on frontend, needs help with frontend to check if it is working properly.

Sherif figured out the Cors issue with Google Oauth in the backend.

Sean has been working on debugging when integrating with frontend teams.

Chaitanya wants to add the functionality of notification.

* Frontend updates:

Jisoo will update the user data that was authenticated from the backend with Sherif’s code before Monday.

Mali will be helping the user creation part after logging in and debugging frontend code.

Brian is working on overall presentation setups. See if there is anything missing in our iteration3 deliverables. Reorganize Readme file.

* Meet up on Monday to check on the progress.

**Action Items:**

* Keep working on documentation and deliverables for iteration3.
* Update progress in Jira.
* Focus on requirements in backend and frontend.

**Meeting 14**

**Date and Time:** 10/14/2023 @7:00 PM EST

**Place**: Discord

**Participants**: Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Chaitanya Saraogi, Sean Rawson

**Minutes taker:** Jisoo Lee

**Timekeeper:** 60 min

**Agenda:**

* Code progress since last meeting

**Discussion:**

* Backend updates:

Clyde is updating the database with the columns and working on deployment settings. He will work with merging branches with Chaitanya.

Sherif is working on Google Oauth and needs more time.

Sean has been working on debugging when integrating with frontend teams and helping Chaitanya with backend codes.

Chaitanya wants to add the functionality of notification.

* Frontend updates:

Jisoo is waiting and debugging back and forth with Sherif to solve the Cors error in the backend.

Mali is working on tests and debugging frontend endpoints.

Brian is working on the addExpense and addIncome pages. Check the SPPP and other documentation for iteration3.

* Meet up on Sunday to check on the progress.

**Action Items:**

* Fill out individual progress reports and any other documentation
* Update progress in Jira
* Focus on requirements in backend and frontend.

**Meeting 13**

**Date and Time:** 10/12/2023 @8:00 PM EST

**Place**: Discord

**Participants**: Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Chaitanya Saraogi, Sean Rawson

**Minutes taker:** Jisoo Lee

**Timekeeper:** 60 min

**Agenda:**

* Code progress since last meeting
* Requirements overview
* Planning final deliverables for iteration 3

**Discussion:**

* Backend updates:

Sherif is trying to implement the Google Oauth in the backend.This has to be set up before Sunday, because other frontend pages are dependent with Google Oauth.

Sean has updated some codes, working with Mali to debug and testing

Chaitanya wants to merge the branch into dev.

* Frontend updates:

Jisoo is implemented on Google Oauth button in the frontend, but needs to work with Sherif with Cors error.

Mali is working on tests and debugging frontend endpoints.

Brian is working on the addExpense and addIncome pages.

* Meet up on Saturday to check on the progress.

**Action Items:**

* Fill out individual progress reports and any other documentation
* Focus on requirements in backend and frontend.

**Meeting 12**

**Date and Time:** 10/08/2023 @7:00 PM EST

**Place**: Discord

**Participants**: Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Chaitanya Saraogi, Sean Rawson

**Minutes taker:** Sean Rawson

**Timekeeper:** 60 min

**Agenda:**

* Code progress since last meeting
* Planning final deliverables for Tuesday submission of iteration 2

**Discussion:**

* Pipeline is having some issues with pushing to Google Drive. Clyde will continue to investigate that, but we’re also pivoting to Heroku. Heroku has some particular setup requirements so those need to be sorted out, mainly what port each container will use. (Clyde)
* Deploy to Heroku requires a change to URLs for the REST calls from front end to back end (Clyde, Jisoo, Mali, Brian)
* Notification system for expenses and going over budget is in progress. Popup for front end and code on back end to calculate budget remaining. How does a budget fit into our current model? Budget is separate from income (Chaitanya)
* Will discuss budgeting by category for next iteration
* Presentation for Tuesday, discuss front end progress, deployment progress, back end updates (Brian, Clyde)
* Branching strategy as we integrate the back end and the front end (all)

**Action Items:**

* Fill out individual progress reports and any other documentation
* Plan details of presentation. Show beginnings of integration between front and back end.

**Meeting 11**

**Date and Time:** 10/05/2023 @8:15 PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Sean Rawson, Sherif Zeyada, Chaitanya Saraogi

**Minutes taker:** Jisoo Lee

**Timekeeper:** 55 min

**Agenda:**

* Code progress since Tuesday meeting
* Planning for this weekend before submission
* Quick review of our feedback from iteration 1 to better prep for iteration 2 submission
* Review of iteration1 notes

**Discussion:**

* Deployment issues (Clyde): deploying our app to Heroku seems viable within our timeframe. Deploying for React frontend
* Backend team: working on notification codes set ups (Clyde, Chaitanya, Sherif), Google Oauth (Sherif, Sean, Jisoo)
* Frontend team: working on dashboard (Mali), Login and setup page (Jisoo), and addExpense and addIncome page (Brian)

For date input, use calendar to get user input - set up, add expense

* Readme file documentation for our project
* Progress report update
* Jira progress update
* Iteration 2 presentation presenters - chat before Sat, meet up Sun
* Git pull and push (front-end and back-end-1): during this evening and before tomorrow morning

**Action Items:**

Next Meeting:

Sunday 10/5 7:00PM EST

**Meeting 10**

**Date and Time:** 9/28/2023 @8:40PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Sean Rawson, Chaitanya Saraogi, Sherif Zeyada

**Minutes taker:** Mali

**Timekeeper:** 50 mins

**Agenda:**

* Divide coding work

**Discussion:**

* Going to divide work between front-end and back-end teams
* Front-end and back-end going to meet individually and break down code load
* Expectations to implement this in 1 week
* Ideally will save clean up and testing for final week, finish up implementation next week
* Lab3 assignment will have to refactor code, so will write some code to edit for Tuesday
* Going to add separate file in github to refactor for lab
* Clyde working on back-end-1
* Sean and Sherif working on back-end
* Clyde wants to merge back-end-1 and back-end, and merge front-end to dev
* Clyde going to give shell commands to Mali going to integrate back and front end

**Action Items:**

Next Meeting:

Sunday 10/1 7:00PM EST

**Meeting 9**

**Date and Time:** 9/24/2023 @7:00PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Sean Rawson, Chaitanya Saraogi, Sherif Zeyada

**Minutes taker:** Jisoo Lee

**Timekeeper:** 50 mins

**Agenda:**

* Progress on demo/deliverable items for Iteration 1 presentation
* Finalize who will be participating in the presentation
* Document review - SDD, STD, SPPP, personal items like ProgressReport and any other deliverables

Discussion:

* Expense table has a date
* Sherif finished the google login, plans to check in with Sean to add to Github, is a local project will have to add to proper branch
* Controller -> services -> repository
* Clyde able to launch DB container within the pipeline, next thing is to test out then package and deploy it somewhere
* Clyde needs file with JSON payloads from Sean
* Clyde half way through pipeline, needs to add what Sean just completed
* Presentation - Sean, Chaitanya, Mali

**Action Items**

**Next Meeting:**

Monday 9/25 (for presentation team)

Thursday 9/28 7:00 PM EST

**Meeting 8**

**Date and Time:** 9/22/2023 @7:00PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Sean Rawson, Chaitanya Saraogi, Sherif Zeyada

**Minutes taker:** Jisoo Lee

**Timekeeper:** 50 mins

**Agenda:**

* Frontend, backend, and configuration mockups and updates

**Action Items**

* Work on the SDD, STD and other documentations
* Work on demo videos and presentation

**Next Meeting:**

Sunday 9/24 7:00 PM EST

**Meeting 7**

**Date and Time:** 9/19/2023 @8:00PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Sean Rawson, Chaitanya Saraogi

**Minutes taker:** Jisoo Lee

**Timekeeper:** 1hr 15 mins

**Agenda:**

* Design and implementation plan for our project

**Action Items**

* Sherif, Chaitanya - by 9/20 will choose best design pattern for our project
* Clyde - by 9/22 finish the pipeline
* Brian, Jisoo, Mali - by 9/21 work with Sherif work with implementing UI
* Sean, Sherif - by 9/23 working on security/authorization (Spring security)
* Sherif, Chaitanya - Engine (REST API)

**Next Meeting:**

Friday 9/22 7:00PM

**Meeting 6**

**Date and Time:** 9/17/2023 @7:00PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Sean Rawson, Chaitanya Saraogi

**Minutes taker:** Clyde Yeung

**Timekeeper:**

**Agenda:**

* Go over the JIRA backlog board for lab 2

**Action Items**

* Add Sub-Task to JiRA
* - Add Label to JIRA

**Next Meeting:**

9/19/2023 after class ~8:00pm

**Meeting 5**

**Date and Time:** 9/14/2023 @8:15PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Sean Rawson, Sherif Zeyada, Chaitanya Saraogi

**Minutes taker:** Clyde Yeung

**Timekeeper:**

**Agenda:**

* Go over the JIRA backlog board
* Assign the Epic/Stories to individual

**Action Items**

* Chaitanya will sync JIRA and SPPP.
* Brian assigning the user stories to team members
* Each team members will updating the story and include unit test in the story

**Discussion:**

* UI - using React
* Engine - Springboot RESTAPI
* Container - Created Database container and using Sherif’s script to create the tables

**Next Meeting:**

9//2023 after class

**Meeting 4**

**Date and Time:** 9/13/2023 @7:00PM EST

**Place**: Discord/Zoom

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Sean Rawson, Sherif Zeyada, Chaitanya Saraogi

**Minutes taker:** Clyde Yeung

**Timekeeper:**

**Purpose:** Review demo and recording

**Agenda:**

* Final check up on the SPPP doc
* Final review presentation slide and recording

**Action Items**:

* Finalize the iteration0 submission

**Next Meeting:**

9/14/2023 after class

**Meeting 3**

**Date and Time:** 9/11/2023 @7:00PM EST

**Place**: Discord/Zoom

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Sean Rawson, Sherif Zeyada

**Minutes taker:** Mali Rivera

**Timekeeper:**

**Purpose:** Follow up

**Agenda:**

* Check-in on progress of SPPP doc
* Review Jira workflow
* Divide workload for week 2
* Demo

**Discussion:**

Jira Review:

* User login/authentication is lower priority than database/budget tracker functionality
* GUI and Database primary focus for now
* Input income will probably be easier to implement
* If we have time will work on user login
* Will login information be looped into user’s account -> username, user’s income, etc. or should login just be for username and password?
* Password will probably not be saved to DB
* First name, last name, monthly expense, income etc. will be saved in DB and that’s where data will be rendered back to the web
* Iteration 1: primarily focused on DB and login information

Priority Stories:

* Following SPPP stories (section 8)
* Priority 1
  + Ensure Requirements + Class Diagram all set
  + 1. Create Database - BackEnd
    - Enable trigger dev branch merge
    - Pipeline create container
* Priority 2
  + Implement features one by one
  + 1. Input monthly income
  + 2. User expenses
  + 3. Enable expense tracking
* Must haves:
  + username, password
  + Input for income and expenses
  + Then we have baseline features to create expense categories, create visuals, etc.

Potential split up:

Sherif

* Database script

Clyde

* Database container

Clyde/Sean

* LDAP

Brian/Mali

* Web UI

Sherif/Jisoo/Sean

* Engine

Demo

* Not everyone has to contribute to the first demo, since this is about the requirement Jisoo/Brian will take the lead on this one

**Action Items**

* Complete the demo for project 0 submission
* Review your slide in powerpoint for Demo, make any necessary adjustments

**Meeting 2**

**Date and Time:** 9/9/2023 @7:00PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Sean Rawson, Sherif Zeyada

**Minutes taker:** Clyde Yeung

**Timekeeper:**

**Purpose:** Follow up

**Agenda:**

* Project details that have been set up/researched since yesterday
* Create a baseline set of features that we'd like to implement in the project
* Ensure that we all have the information we need to complete our portions of the SPPP

**Discussion:**

Reviewed project proposals: <https://docs.google.com/document/d/14l03Mj_ML6cio_Yx3NpVa63a3AQ5Y1jFXbzqMYHWL8I/edit>

General themes in proposals:

* Budgeting application to track monthly expenses
* Visual representation of expenses for user
* Financial recommendations for users

Competitor app/inspiration

* Mint <https://mint.intuit.com/?dd_pm=none&dd_pm_cat=finance_app>
* Mint functionality
  + Links up all accounts (credit, loans, investments)
  + Tracks bills, subscriptions, notifies users when subscription cost increases
  + Allows users to create budget categories
  + Provides suggestions for smarter spending
  + Over-budget, unusual spending, and bill reminder notifications
* Unlikely that we will be able to create an app that links up to bank accounts in 6 weeks
  + Will have the user manually enter income, expenses, etc.
* Want to include functionality for users to create budget categories and set $ limits
  + Visual representation for user:
  + Pie chart break down of user’s expenses
  + Bar tracking expenses -> green in budget, red over-budget
* Want to have a UI component, unsure whether that will be with React or through Java (JFrame)
* Would like to add a financial recommendation feature if we have time
  + For example, could take the user’s income and calculate the suggested amount that they should spend on rent, food, etc. from that
  + 30% rule for rent
  + Average monthly spending on groceries $250-$550
  + 20% towards savings
  + 50/30/20 rule, 20% for savings, 50% for necessities, 30% for discretion

Survey on the tool.

* Plan is for each team member to provide 1-2 user surveys for a budgeting application

Team name: TBD

Features on the budgeting application:

* Monthly income vs Monthly expenses
* Set category
* Set budget for each category
* Finance Recommendation (may be)
* Periodic reports

Reference - everydollar

**Action Items**

Basic features - Brian (ready by noon)

Jira story - Clyde

Decide DB - Sherif

**Next Meeting:**

9/10/2023 @7:00PM

**Meeting 1**

**Date and Time:** 9/8/2023 @6:30PM EST

**Place**: Discord

**Participants:** Clyde Yeung, Brian Fenstermacher, Jisoo Lee, Mali Rivera, Sean Rawson, Sherif Zeyada

**Minutes taker:** Jisoo Lee

**Timekeeper:**

**Purpose:** first meetup

**Agenda:**

Project Title and focus

Role assignment

Coding standard

Meeting schedule/deadlines

**Discussion:**

* Introductions
* Reviewed the documents that are due this week
* Went over role assignment and responsibilities
* Decided that the roles will be flexible - team effort
* Discussed project ideas
  + banking application, some team members work in finance
* project name ideas from chatGPT
  + BudgetWise
  + SpendSmart
  + MoneyMinder
  + ExpenseEase
  + MoneyMate
* Decided to split up the SPPP doc based off of our Roles
* created another shared google doc to brainstorm project ideas and proposals further

**Roles**

Team leader: Brian Fenstermacher

Requirements leader: Jisoo Lee

Design and Implementation leader: Sherif Zeyada

QA leader: Mali Rivera

Configuration and leader: Clyde Yeung

Security leader: Sean Rawson

**Key Decisions:**

Project idea: Banking application

Project name:

**Action Items:**

Coding Standard - Sean and Sherif

Schedule - Thursday after class/Sunday afternoon

Jira - Create Jira project

SPPP - work distribution by each roles

Project scheme work - GoogleDoc (online), meet up Saturday 7pm

Presentation 0 prep - Sunday / Monday evening

**Schedule:**

Thursdays: 8-9pm EST

Sundays: 7-8pm EST

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

**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