

Language : Java, mySQL

Project : Gamification of SSH App

Planning:

Week 25/11 - 29/11 :

- Overall planning
- Divide task

Main:

- The system (Java)
- The function, once checked-in, get point (click button)
- Points accumulated displayed
- Process of claiming vouchers
- My points page (UI)
- When the button reset at 12 a.m.

1ST MEETING (25/11/2024)

Improvement:

- Reminder if haven't checked in for long time
- Daily streak (more rewards every time the student checked in, refer to Shopee system)

Task 1 Java (Naylea):

- Function check in
- Function claim voucher

Task 2 JavaFX (Zulaikha):

- All basic elements of the page
- Buttons
 - check in,
 - once clicked, cannot be clicked again (maybe use different colour) until the next day
- Possible issues
 - Maybe combine points_earned table and points_spent table, maybe use signed int?
 - The display needs to be checked again (does each box of voucher need to use the same fx id?)
 - Readpoints need to recheck its return type
 - Figure out how to ensure the user_id (hardcode or have initial values?)

Task 3 Database SQLI (Razin):

- Develop the tables, and relationships based on the EDR

Things to do:

- Functions where every time new user_information has row, add the user into user_points

2ND MEETING (28/11/2024) - Library

Discussion info

- Figuring out how to connect JavaFX UI (main page) to the created database
- Java Functions to retrieve information from the main page to send to the database
- Discuss SQL database triggers to be implemented for when points_spent and points_earned are updated

3RD MEETING (1/12/2024) - Library

Discussion info

- Going through our groups GitHub repository to understand how to use it
- Pushed all our progress from each member's tasks to GitHub
- Shared all of our progress so we can contribute to each other's tasks by pulling them
- Added correct SQL functions and triggers to the Database (mainly in the Transaction table)
- Presented initial layout of the main page (received comments and suggested improvements)
- Conducted some manual testing to establish connection to database from main page

4TH MEETING (3/12/2024) - TLB

Discussion info

- Corrected trigger function to update points_spent and points_earned in Transaction table of Database, added one more trigger to update user_points table for new users
- Added data to the database to test java functions and database functions
- Tested Java functions for the Check-In button
- For JavaFX, added vouchers display with claim buttons to the main page.

5TH MEETING (6/12/2024) - Library

Discussion info

- Added more data examples for voucher and current_points
- Tested Check-In feature in main page to update database in real time
- Changed voucher display in main page, Added images for the company logo
- Added logo path in voucher table (for logo display)
- Tried managing different date types in SQL and Java, figuring out ways to connect them correctly

6TH MEETING (10/12/2024) - Library

Discussion info

- Fixed problems faced where transaction history display at main page is not updated
- The function to claim voucher is accurately added and can be used
- Date data type problem fixed, dates align between Java function and SQL database
- Figuring out problems with the transaction history table in the main page (does not update the 5 latest transactions).
- Time for latest transaction were seen to be all the same, update function to fix the problem

7TH MEETING (11/12/2024) - Library

- Had final tests of parts of the system to finalise prototype
- Discussed to write the report for the prototype

THINGS TO DO (Latest update)

Naylea

- Function claim voucher
- Figure out how the current point will be updated since now it display when initialized
- Function for what occurs when the user check in
- DbFunction, do add new transaction (check-in)
- Claim -> check enough balance -> alert if not enough points / new transaction
- Date and time for transaction set to current time that transaction occurs (maybe use auto function in java)

Zulaikha

- Font for claim button before hover / after hover
- Time for transactions
- If points spend >1000, the display is not right

Razin

- Function where every time new user_information has row, add the user into user_points
- So trigger change to not to auto update new user
- For transactionID , voucherID, userID use serial as datatype (ONLY FOR PRIMARY KEY)