Individual Code Contribution

Sustainable Work through Women-in-tech Application for Older Women in Malaysia and Thailand: Integrating Action Research and Design Science Approach

INTRODUCTION

The purpose of this document is to outline the individual work contribution of all members for the project in the following PI. The user stories assigned are stated accordingly along with the task or feature that each member has successfully implemented. Furthermore, the links that each member has worked on is provided as well.

Main Git Repository Link

https://git-prd.infotech.monash.edu/fit3077-empowering-women/fit3170-empowering-women.git
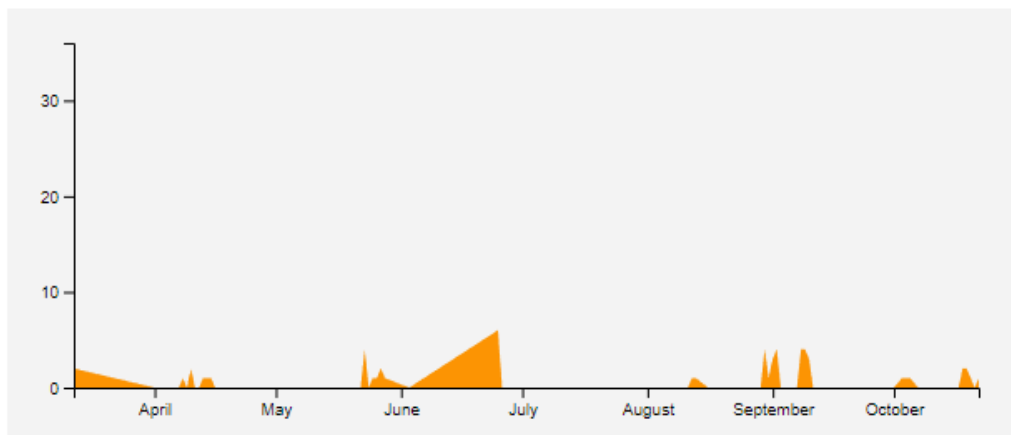
TEAM 404

<u>Ti Jia Yao (29276160)</u>
Code contribution:

<u>Master Branch</u>

tjyaooo

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User Stories/Tasks Allocated:
- Implement function to compile collected data into a csv file for easy extraction of the user responses
- Documentation
- Delete user's response in firestore once they click "restart"
- Resize text inputs in likert scale as requested by clients

Modules/Features Implemented and Tasks:
In exportCSV.js in folder public/chatbot/script/:
- Queries all responses for a specific question in Firebase
- Compiles them into a single CSV file to be downloaded

In response-storage.js in folder public/chatbot/script/:
- Added function to delete all of current user's responses in response branch
- Deletes response from all language branches as well

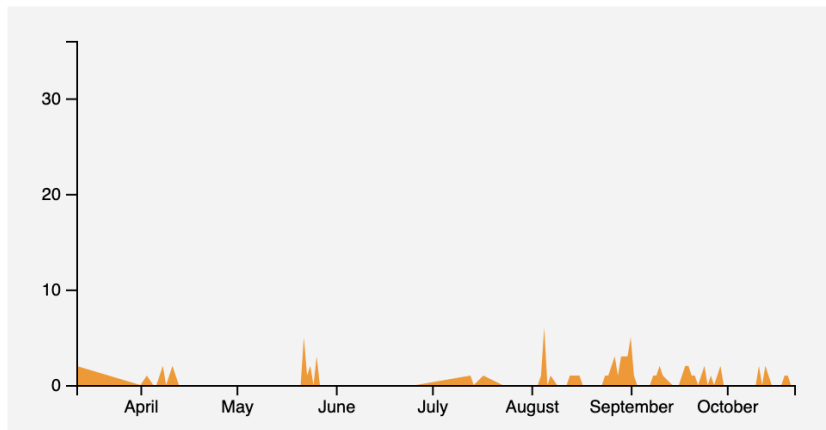**Code contribution:**

<u>Master Branch</u>

kkon0010

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User Stories/Tasks Allocated:
- Implement answering of MCQs with textbox
- Implementing the text input for "others" option in MCQs
- Adding the text-to-speech icon on each question bubbles of the survey.
- Adding translated versions of the Explanatory Statements to the application and the language switching system to display them.
- Fix bug with storing user responses
- Apply changes requested by clients.

Modules/Features Implemented and Tasks:
In the first_time_survey.js file in folder public/script:
- Allow the textbox to be usable when MCQs are displayed and actively check user input in the textbox whenever a character is added.
- Add the text-to-speech button to each question's html sections.
- Added an additional question section that appears when "other" option was chosen in MCQs and allows users to give text input for "other" option.

In the response_storage.js file in folder public/chatbot/script:
- Fixed bug in saveResponse() function where the wrong survey question IDs are saved in the response sent to firestore when a user answers a question.

In folder public/script:
- Made changes to chatbot's js files to follow change requests from clients.
- Created all non-english explanatory statement uploader files for both long and short versions.

- Implemented a system where the explanatory statement html pages will show an explanatory statement depending on selected language.
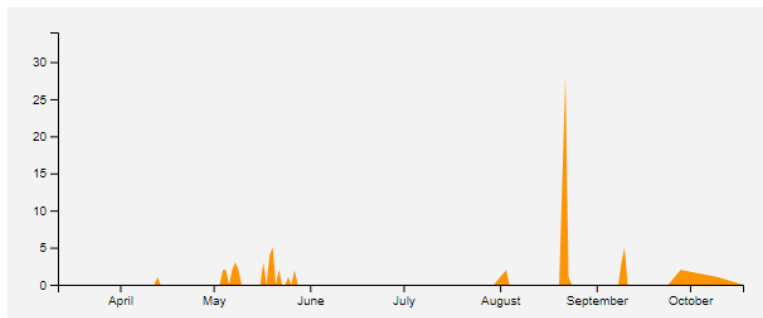
Chia Yong Peng (29938120)
Code contribution:

team404_speech_to_text Branch

Chia Yong Peng

71 commits   ychi0014@student.monash.edu

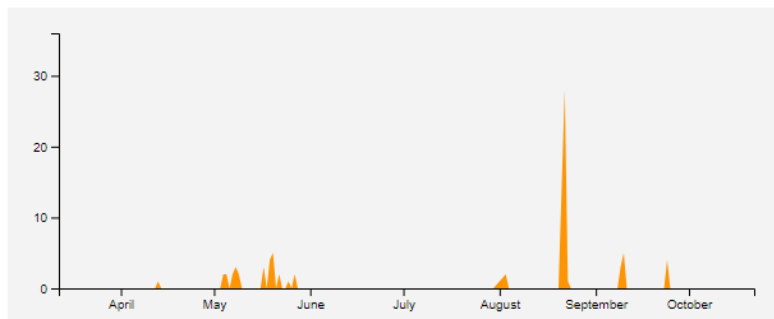## Master Branch

Chia Yong Peng

72 commits   ychi0014@student.monash.edu

User Stories/Tasks Allocated:
- Survey resuming function
- Allow the chatbot to be able to take voice inputs (Speech-to-text function)

Modules/Features Implemented and Tasks:
In the first_time_survey.js file in folder public/script:
- Implementing resuming

In the chatbot-init.js, response-storage.js and likert-scale.js files in folder public/chatbot/script:
- Refactoring likert scale
- Implementing resuming

In question-responses-ui.js, question_responses.js and question_responses.html in folder public/chatbot/question-responses:
- Implement language selection and navigation features for the old chatbot dashboard

In index.html and index.js files in the folder public/chatbot/speech-to-text from the tesm404_speech_to_text branch:
- Voice inputs
    - Research on capturing streaming audio
    - Research on running code on Firebase's back-end (Cloud Functions)
    - Research on text-to-speech APIs (IBM Watson & Google's Cloud Text-to-Speech)
    - Research on executable invocation on the cloud (executing command line code on Google Cloud)
    - Implement a mock UI for voice inputs
    - Reinitialize Firebase project to allow usages of more Firebase features such as Cloud Functions and Cloud Storage
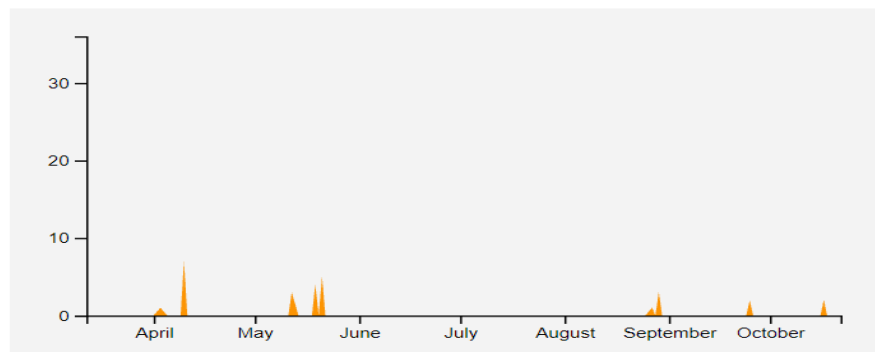
Morad Abou Shadi (29799260)
Code contribution:

Master Branch

Morad

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User Stories/Tasks Allocated:
- Have error messages to display whenever the user gives invalid input for questions.
- Research text-to-speech and develop spike
- Implement text-to-speech function for chatbot questions

Modules/Features Implemented and Tasks:
- Text-to-speech spike on local computer to better understand how the api functions
- In the first_time_survey.js file in folder public/script:
    - Created function to check if the user input is incorrect.
    - If an incorrect input is given, display the corresponding error message for that question type.
    - Implemented text-to-speech functionality

- Adjusted some functionality to accommodate for implementation
- Tested it works correctly
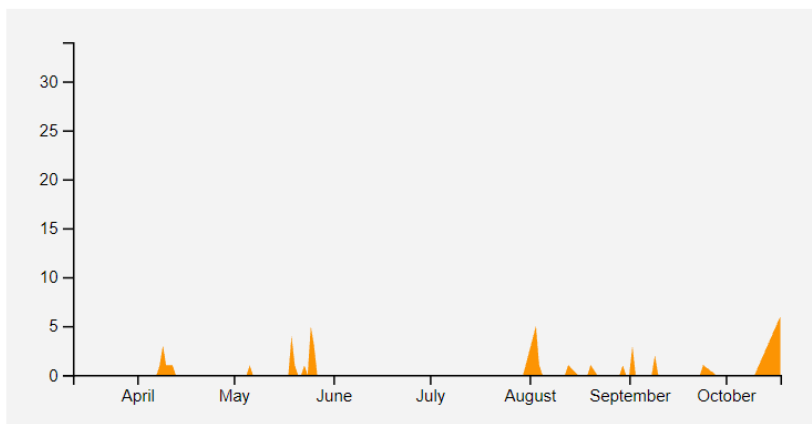- Tested it works in different languages

Daniel Yuen Hao Xian (30519357)
Code contribution:

Speech-to-Text branch

Dan

43 commits   dyue0003@student.monash.edu
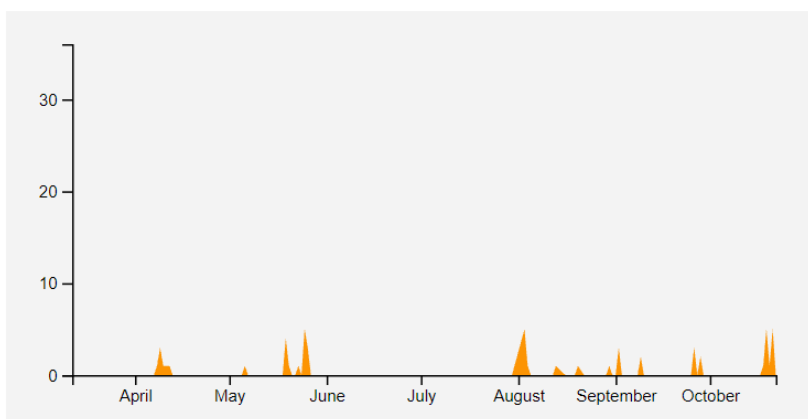

Master Branch

Dan

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User Stories/Tasks Allocated:
- Research on Speech-to-Text and develop spike
- Create chatbot admin dashboard
- Transfer functionality from questions_responses.html to new admin dashboard
- Create Speech-to-Text UI
- Testing and documentation

Modules/Features Implemented and Tasks:

In index.html and index.js files in the folder public/chatbot/speech-to-text from the tesm404_speech_to_text branch:
- Speech-to-Text spike in team404_speech_to_text branch
- Speech-to-Text UI for chatbot in team404_speech_to_text branch

In chatbot_dashboard.html, chatbot_dashboard.js and chatbot_dashboard.css in the folder public/dashboard and subfolders /script and /css:
- Chatbot Admin Dashboard html, js and css files in public/dashboard
    - Created new design for dashboard
    - Transferred existing functionality from questions_responses.html to dashboard
    - General bug fixes while transferring functionality
    - Redesigned language selection functionality
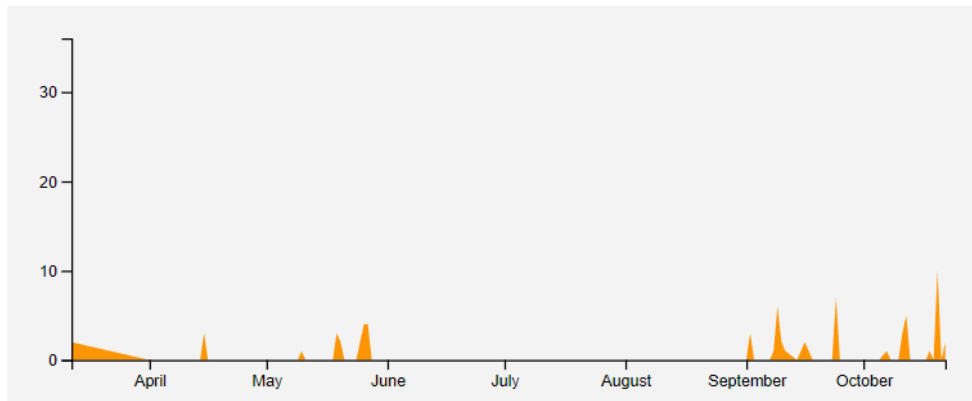
TEAM TWENTY9

Sim Mon Kiat Jeffrey (29543770)
Code contribution:

Master Branch

msim0015

65 commits   msim0015@student.monash.edu

User Stories/Tasks Allocated:
- Create page and functionalities for recommender user dashboard
- Redirect to forum for recommended videos
- Some general bug fixes and code improvements for old features
- Some UI adjustments

Modules/Features Implemented and Tasks:
- Recommender user dashboard
    - Added charts and tables
    - Functions to retrieve data for the elements
- Fixed some UI inconsistencies such as the share buttons overlapping some buttons
- Added button to redirect to forum posts for recommended videos
- Fixed some bugs on older features like share details not accurate
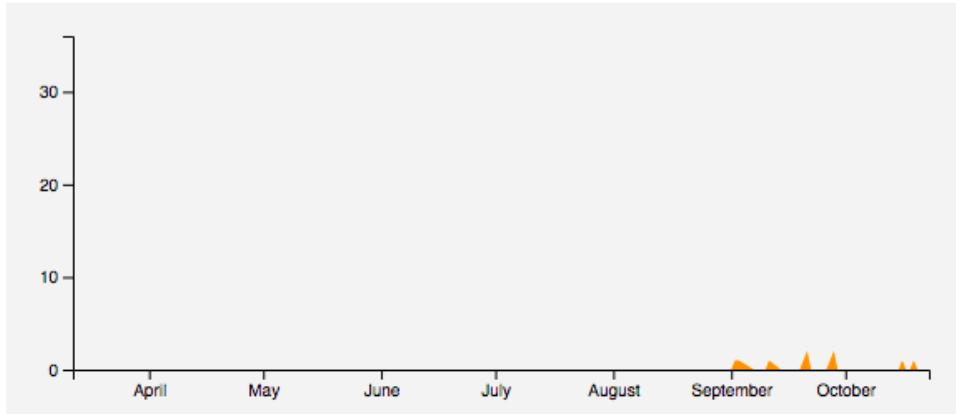
Ng Guo Hao (29799392)
Code contribution:

Master Branch

gngg0006

11 commits   gngg0006@student.monash.edu

User Stories/Tasks Allocated:
- User rating under users dashboard
- Fix favourite filter not working in mobile
- UI changes (button/page consistency and general improvement)

Modules/Features Implemented and Tasks:
- User rating under users dashboard
- Fix favourite filter not working in mobile
- Fix UI consistency issue
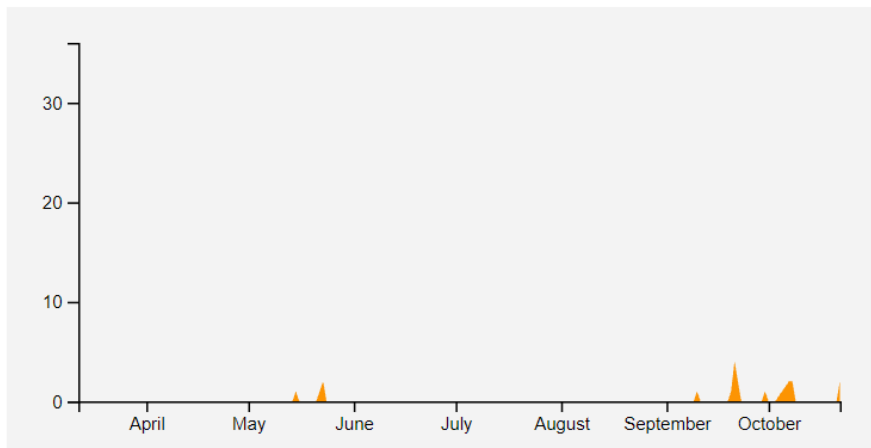
<u>Jasmine Chen Miin Huey (29938023)</u>
Code contribution:

<u>Master Branch</u>

jasmine

20 commits   jche0155@student.monash.edu

User Stories/Tasks Allocated:
- As an admin, I would like to view the number of skill/interest has been saved to favourites by the users
- As an admin, I would like an admin dashboard landing page to select which type of data analytics to view
- Implement skeleton UI for admin dashboard user and skills analytics page
- Recommender UI page consistency

Modules/Features Implemented and Tasks:
- Changes the buttons above video player to tabs
- Recommender Admin Dashboard html, js and css files in public/dashboard
    - Created UI designs for users, favourites and skills page
    - Implemented recommender admin landing page
    - Implemented functionalities in favourites page
    - Bug fixes in favourites page
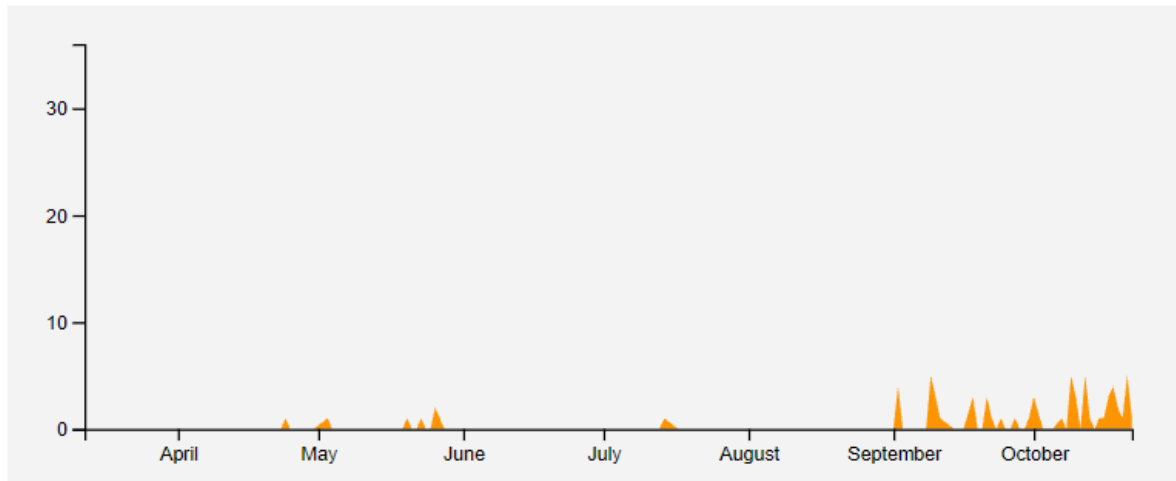
Code contribution:

Master Branch

Yi Meng

67 commits   ylau0009@student.monash.edu

User Stories/Tasks Allocated:
- As an admin, I want to know how much time a user spent watching a video
- As an admin, I want to know at which time the user stops watching a video
- As an admin, I want to know when the user has played or paused a video
- As a user, I want to like or dislike a recommended video so that it shows my reaction to the video
- As an admin, I want to download the raw data from the recommender in a csv format

Modules/Features Implemented and Tasks:
- Helped forum team add videos by the recommender to the Realtime database as posts
- General UI adjustments to all pages on mobile screens
- Bug fix for checking if icon should be liked/disliked/favourited when user goes to another video
- Code clean up for recommender_main.js
- Code comments on recommender_select_skills.js, recommender_main.js and recommender.csv.js
- Setup Google Tag Manager and implemented video tracking
- Implemented csv function on admin dashboard
- Tweak format of storing data for favourite/history
    - Included learning interest and postId (favourite) in the data structure for easier csv process
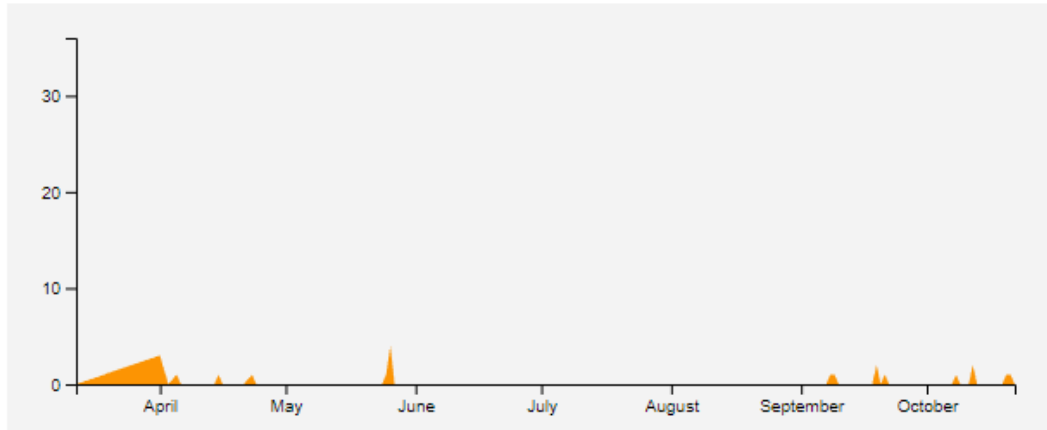
Mohamed Hijan Hameez (28627237)

Code contribution:

<u>Master Branch</u>

Hijan Hameez

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User Stories/Tasks Allocated:
- As an admin, I would like to know which skills were selected the most by the users on the learning interests page
- As an admin, I would like to see how many videos have been favorited by skill/learning interest by each user
- History page redesign to have a similar look as the forum page

Modules/Features Implemented and Tasks:
- Added automatic storage of selection data to firebase on user selecting a skill
- Added automatic storage of favourite data to firebase on user favoriting a skill
- Worked on early dashboard design involving basic pie charts
- Redesigned the History page to be mobile friendly and look like the forum pages UI
- Assisted with Admin dashboard user section on the dashboard_2 branch
- Worked on Admin dashboard skill section
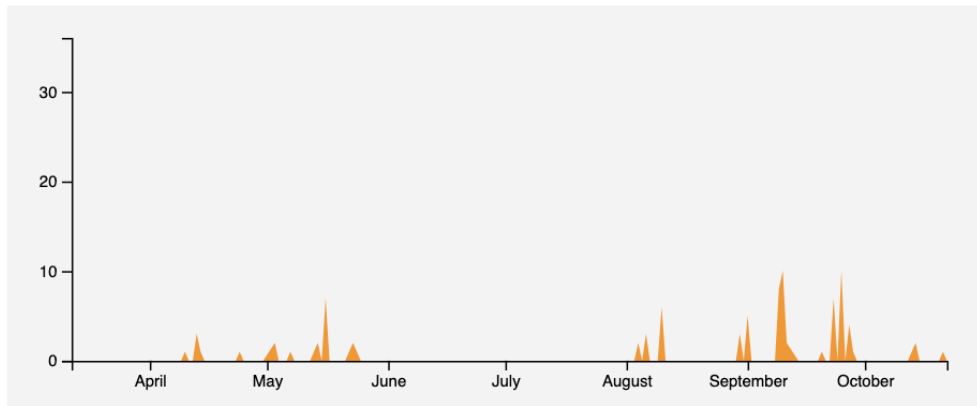
TEAM REDCOW

Daiki Kubo (30523346)
Code contribution:

Master Branch

Daiki

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User Stories/Tasks Allocated:
- As an admin, I want to search information about one specific user
- As an admin, I want to see the total number of users in the system
- As an admin I want to be able to download the user data in csv format
- w

Modules/Features Implemented and Tasks:
- Auto-complete feature for a search functionality for user part on the admin dashboard forum
- Showing a total number of users and loading the page at every 30 seconds interval to be up to date.
- CSV export functionality to export all the form related data
- Some UI redesign
- Changing some features based on client requests
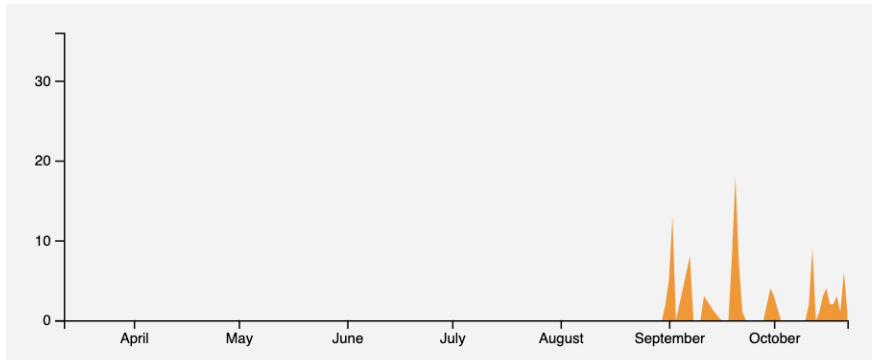
<u>Vladislav Pikulin (30935679)</u>
Code contribution:

Master Branch

Vlad

109 commits   goroy007@gmail.com
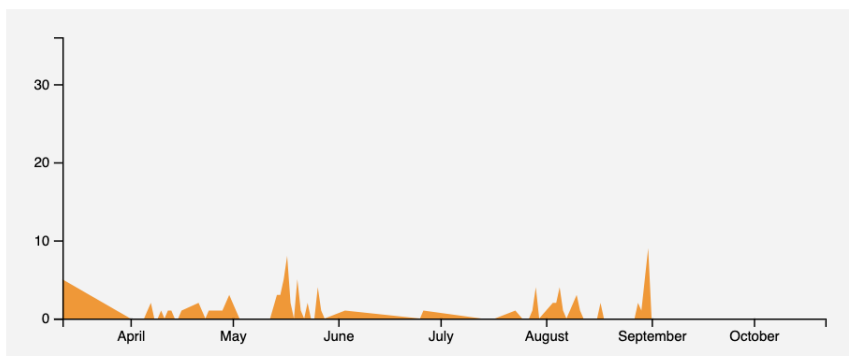

vlad

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User Stories/Tasks Allocated:
- As an admin, I want to search information about one specific post by id and title or choose it from the dropdown list
- As an admin i want to be able to log in with email
- As an admin i want to be able to login on a seperate, unlinked, page from regular users
- As an admin, I want to see the history of any user's interactions with posts
- As an admin, I want to see the summary of the post I was searching for
- As an admin, I want to see the total number of posts posted to recommender and created by the user
- As an admin, I want to see the numerical data on the post, including number of likes, dislikes, comments and replies, and user's who favorited the post

Modules/Features Implemented and Tasks:
- Login system for the admin dashboard
- Search functionality
- Dashboard forum post page layout
- Dashboard forum post page autocomplete
- Dashboard forum post page functionality
- Post details page in view only mode for admins
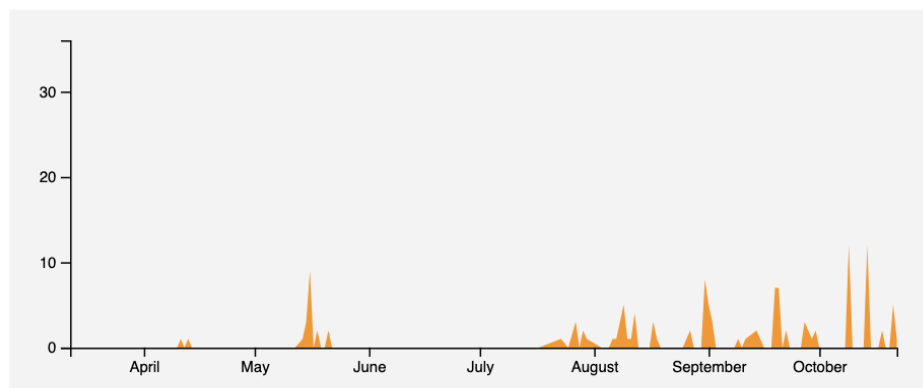
Tatiana Sutulova(30806151)
Code contribution:

Master Branch

Tatiana Sutulova

121 commits   tsut0005@student.monash.edu

User Stories/Tasks Allocated:
- As an admin, I want to know summarized information about the user's interests that he/she interacted with the most
- As an admin, I want to see the total number of all the interactions one chosen user has made (likes, dislikes, comments, etc)
- As a user i want to be able to like comments on the posts

Modules/Features Implemented and Tasks:
- Make alerts for likes/dislikes and post creation on forum
- Clean up and comment the code
- Admin dashboard: Work on the front-end and the backend for summarized information about user's interests that the user interacted with
- Admin dashboard: Work on the front-end and the backend for total number of all the interactions one chosen user has made (likes,dislikes, comments, etc)
- Debug likes and dislikes bugs, that appeared from the previous sprint

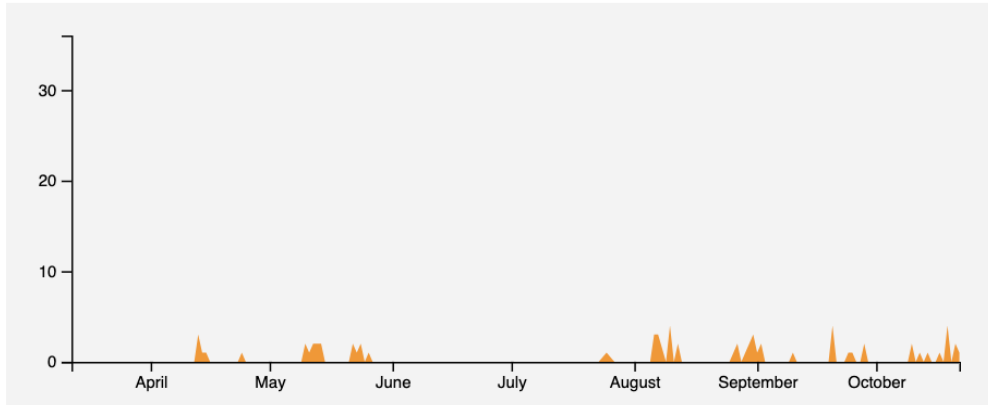**Code contribution:**

Master Branch

Arissha Yasmin

64 commits   ared0005@student.monash.edu

User Stories/Tasks Allocated:
- As an admin, I want to see summarized number of dislikes, likes and posts posted with each of the interests
- As an admin, I want to see the numerical data on the post, including number of likes, dislikes, comments and replies, and user's who favorited the post

Modules/Features Implemented and Tasks:
- Work on the front-end for admin dashboard forum interest page
- Work on the back-end of creating the chart required in the admin dashboard forum interest page
- Make some chart changes due to clients request
- Code clean up and commenting
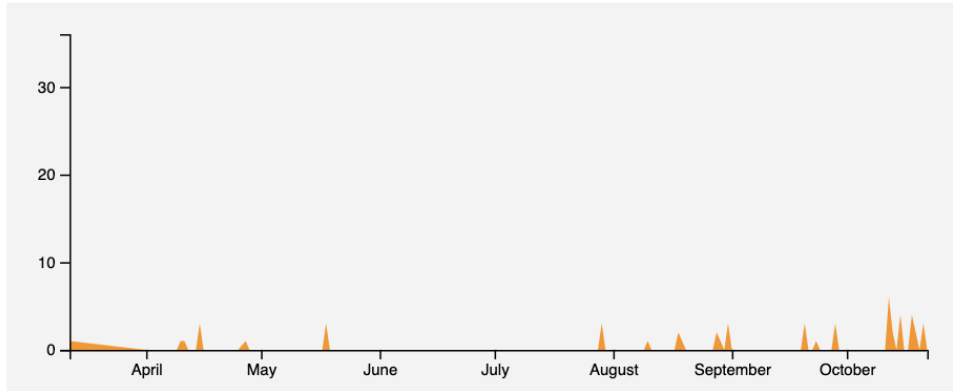
<u>Elaf Abdullah Saleh Alhaddad(31063977)</u>
Code contribution:

<u>Master Branch</u>

Elaf Abdullah

51 commits   elafasalh@gmail.com

User Stories/Tasks Allocated:
- As an admin I want to be able to access data about interests, users and posts separately,
- As an admin, I want to see the history of any user's interactions with posts
- As an admin, I want to be able to view their history by categories
- As an admin, I want to see the total number of posts posted to recommender and created by the user
- As an admin, I want to be able to pick one interest and see the history of posts with it

Modules/Features Implemented and Tasks:

- Worked on viewing the created posts, liked posts, disliked posts, favorited posts, liked comments, comments made, replies made the user made from the user admin dashboard
- Viewing a summary table of the posts under each interest in the interest admin dashboard
- Worked on the frontend of the forum landing page
- Code clean up and commenting
- Allowing the anonymous users comments to be numbered - based on client request
- Allowing the tables of posts in the interest dashboard to be sorted by the number of comments - based on the clients request
- Code commenting and clean up