C.M.O

CSE 118 - Final Report

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Abstract:

Check Me Out (aka. C.M.O) is a social news platform app that allows users to discuss through posting and commenting on the news. In this final report, we will discuss these major functionalities: Post, Like, Comment, Delete Posts, Search, Notification and Profile management.

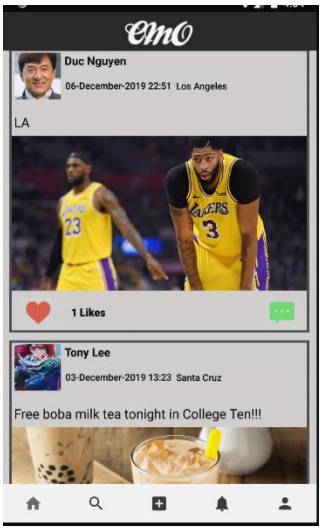
Objective:

We want the user to spend the least amount of time to obtain the news around this area. Therefore, the user will understand the history of this area. Reddit is a great app, but it will be better if it also supports the “filter” that searches the post around the user’s area (For example location name) so that users can easily discover what is happening in his / her area. For example, if the user is in a new city, he/she might not know what is about the history and fun places. Therefore, the user can use this app to find out what recently happened, and any cool events happening in this place. For example, a night market happening soon in City A, or a good restaurant recommended in this City B.

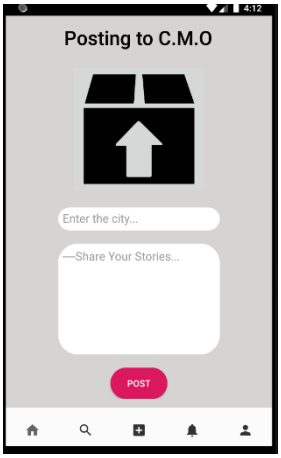
Components:

Login/Register: When users open this app, login activity will appear first. If users do not have an account with us, they can register for an account by inputting email and password. After that, it will bring the user to the next page, which is set up activity. Next, users need to input their full name, username, and location. Lastly, it will bring us to the home page of our app.

Home: Users can see all the posts.



Post: In the bottom navigation bar, there is a plus icon in the middle that triggers the post-activity. User can upload a picture from device, input location name, and description what happened in this location to share to the world.

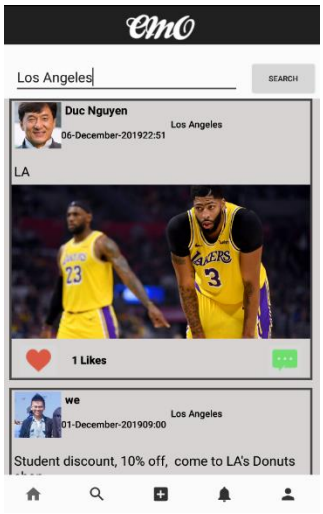


Like/Dislike: If you like other people's posts, you can press the heart icon underneath the post, which will become a red heart. It means you like this post, if you don't like it, press it again, the red heart icon will become no color.

Comment: In the home page, every post has a green comment icon at the end of each post. When the users click it, it will go to comment activity. Comments will appear on top of the screen. At the bottom part of the screen, users can type their comments then post on it.

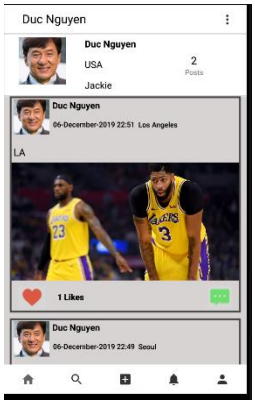
Notification: When other users like a post, they can check the like activity by clicking the notification icon, which is located right next to the add post icon. Users can see who likes it and the time likes button is pressed.

Search: When users click the search icon at the bottom navigation bar, it will bring them to the new page which shows the search bar on top. Users can input location on their choice to filter posts. It will output the posts in that specific location.

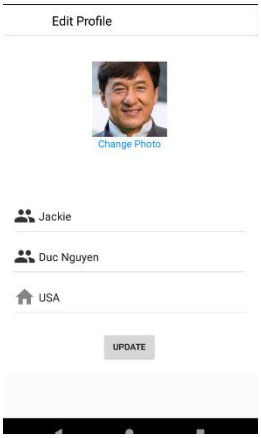


Account: In account activity, they can see the history of the posts and activities.

When users click on their individual posts, it will go to click post activity, which users can edit and delete their own posts.



Profile management: In account activity, there is a 3-dots icon on the top right. When users click it, it will link to account settings. Users are allowed to edit their avatar, username, full name, and location.



Development:

We began by asking ourselves what are the needs of the users for social media and how can we satisfy them. We found that the majority of people who use social media might have an addiction so they spend most of the time on it. Therefore, we need to find solutions that can let the user spend less time checking the posts. Therefore, we need to do the research that understands how other social media apps behave so we have basic ideas. A detailed study of your competitor's app will help us to figure out what features are absent in their app so that you could include it in your app, to make it stand out.

The next step is to document and wireframe the app, to understand future functionalities that need to implement in this app. Since we only have 10 weeks to do this project, we need to define what is the minimum viable product for our app first. Drawing detailed sketches of the envisioned product helps us uncover usability issues. When we are done sketching, wireframing will help refine

the ideas and arrange all components of the design in the right way. Next, we aimed to develop a clear understanding of how our proposed features and ideas will fuse together to a functional app. We also created a roadmap to demonstrate the relationship between each screen and how users will navigate through the app. We applied agile methodology into our project. After that, we break down all the functionality into 4 sprints. And each sprint has different user stories. We use Jira to create the scrum board to let everyone see the task that they were assigned for each week.

After these preparations are done, we are ready to start coding. We use Slack as a communication tool. Effective communication is equally important for the success of a Scrum Team.

Sprint 1, we set up the firebase, and use firebase authentication for the user's login, logout, and register.

Sprint 2, we implemented bottom navigation bar, and post activity, so the user can share his/ her thoughts whatever happens in this area.

Sprint 3, we add search functionality to the app, so the user can filter the posts by location name.

Sprint 4, we realize we have a little more time, so we agree to add more functions to our app. For example, we add notification activity, so when other users like your posts, in the notification layout, it will display which user likes your post. And we also have account activity, user can manage the post by edit or delete. And fix some bugs, and decorate our UI and UX.

Contribution:

- **Weihao**

Weihao was in charging of setting up the Firebase database and implementing the Login/logout functionalities. He also implemented the "like" feature, the comment activity, search activity and UI.

- **Yongsheng**

Yongsheng did the post activity so the user can post the news and save the data in the database.

- **Tunglin**

Tunglin was in charge of implementing the Profile management so users can see the updated name on post after they update the profile, and notification activity.

In addition, Tunglin also took care of debugging for ensuring the correctness of data and merging the codes so all the files do not conflict to each other due to the syntax and out-of-date function/files.

- For most of the time of this project, the team members Weihao and Tunglin put lots of effort to ensure this app is functioning and keep on the right track.

Future work:

In the future, if users can use GPS on their phone to filter posts that will be

better. Furthermore, the ability to find and add friends, and use our app as a platform to chat.