
Personal Assignment 2

Mobile App Programming 2020 Spring

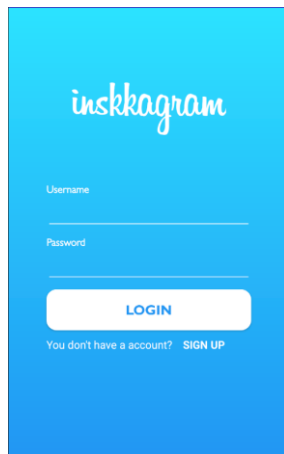
An abstract background featuring several overlapping, wavy, translucent bands of color. The colors include shades of yellow, green, orange, red, pink, purple, and blue, creating a dynamic and fluid visual effect. The bands flow from the left side towards the right, with some areas appearing more saturated than others.

Before make projects

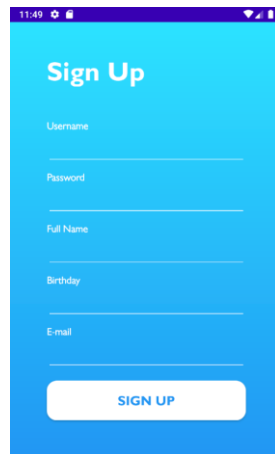
- This Assignment includes some contents that we didn't treat in class.
- We will provide basic concepts and some tips. Maybe, you have to search them to make your assignment project.
- (Android has many libraries to make your application awesome. But we can't treat all of them. Therefore, the purpose of this PA is using more libraries which google provided.)
- If you have any questions, please use google sheet PA1 page.
- **(We will not check email, please use google sheet)**
- **The minimum sdk is API 19 and target sdk is API 29. Please check it.**
- **We upload PA1 answer code on ICAMPUS. Please refer it.**
- **After submit your assignment, You must not delete your PA2 firebase project. If you delete it, we can not give score to you.**

Personal Assignment 2

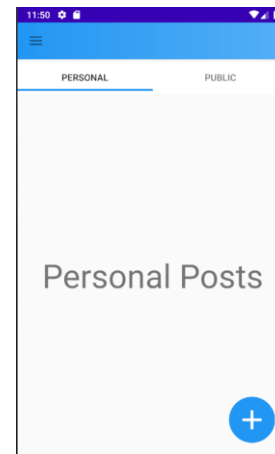
- In PA2, you will implement 4 functions.
- 1) Login, Sign Up function (25 points)
- 2) Profile function (25 points)
- 3) Display Personal Posts, Public Posts (25 points)
- 4) Create Post (25 points)



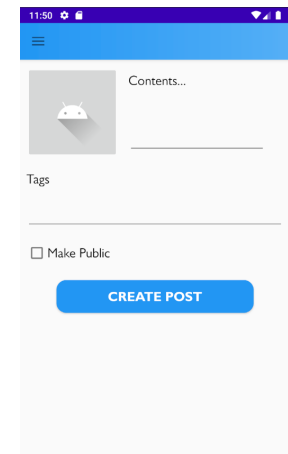
Login Page



Signup Page



Main Post Page



Create Post Page

Function 1. Sign up & Log in

- Signup

- If user fill all blanks in signup pages, make new user information in your firebase database.
- If user doesn't fill all blanks, show toast message "Please fill all blanks"
- **Username** is **primary(unique) key** in user database.
- If input username is duplicated, show toast message "Please use another username"
- If signup is finished successfully, Go to login page and fill username.

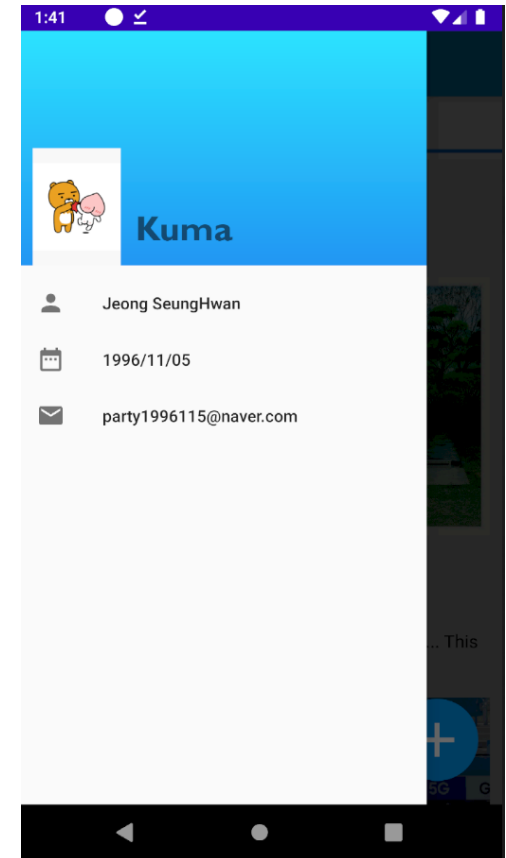
- Log in

- If there is no input Username, show toast message "Wrong Username".
- If password is wrong, show toast message "Wrong Password".
- If Login is successful, Go to main post page.

Function 2. Profile Function

- Profile

- In your main post page and create new post page, drawer navigation will display user profile.
- In your user profile, you should print your user data; username, full name birthday, and email.
- If you click profile image, go to gallery application and select your profile image.
- After selecting image, send it to firebase to save it as your **profile image**. (After that, If you re-login, you should display saved profile image.)

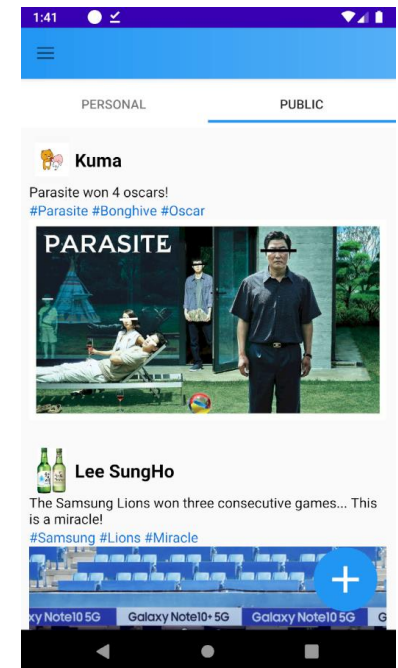


Function 3. Display Personal/Public Posts Function

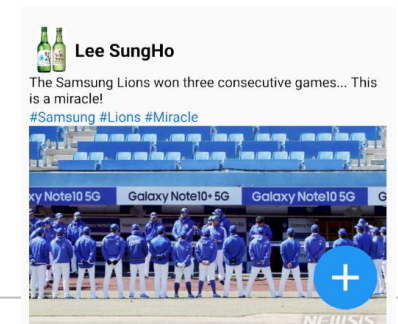
- Personal/Public posts

- When you create new post, you should select post type; personal or public.
- If you make personal post, it will display only personal tab.
- If you make public post, all user which registered in your firebase database can see it.
- All possible posts should be loaded in your application. And scrolling should be implemented to display them.
- The Format of post is looks like left. If there are no image, you should delete image view.

(p.s Tag is just blue color text..)



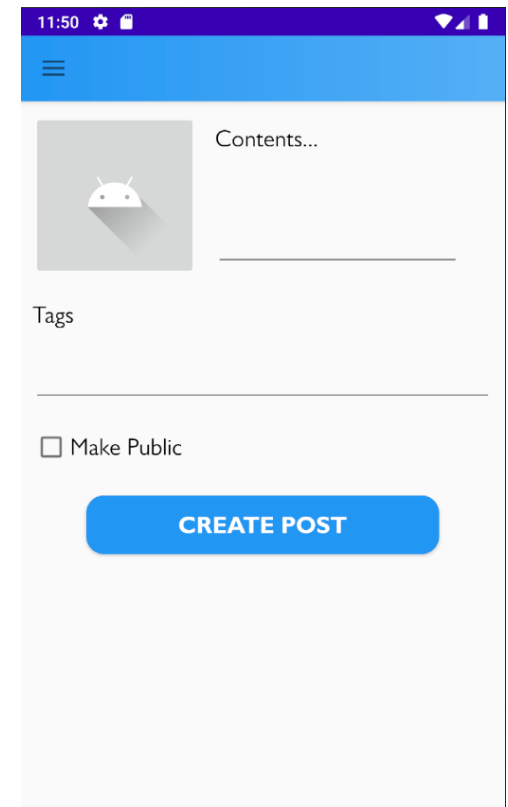
↓ Scroll down



Function 4. Create Post Function

- Create post

- There are 4 components in post; contents(text), tags(text), Image, public/personal.
- Only contents is essential.
- If there are no contents, show toast message "Please input contents".
- After creating new post successfully, Go to main post page.



The screenshot shows a mobile application interface for creating a post. At the top, there is a status bar with the time 11:50 and various icons. Below it is a blue header bar with a white menu icon. The main content area has a light gray background. On the left, there is a square placeholder for a profile picture with a white Android robot icon. To the right of the profile picture is a text input field labeled "Contents...". Below the profile picture is a text input field labeled "Tags". At the bottom, there is a checkbox labeled "Make Public" and a blue button with the text "CREATE POST".



Submission

- Due date : **6/14 23:59:00**
- Submit Project directory (use extract to .zip)
- Change name as <student_id>.zip.
- Don't delete your firebase project.
- **We don't allow delayed submission.**