



# **PROJECT REPORT**

**Coolors++ - Colour palette social media app**

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**DUE DATE: April 25, 2023**

## Contents

URL Resources (Website, Video, GitHub).....	3
Abstract.....	4
Description.....	5
How to test system.....	6
Creating an account and logging in .....	6
Navigating the dashboard/home page.....	6
Drawer.....	6
Media resources .....	7
1. Welcome page.....	7
2. Create account page. ....	7
3. Login page. ....	8
4. Edit Profile Page. ....	8
5. Dashboard/ homepage.....	8
6. View profile Page. ....	9
7. Post page/ create page.....	10
8. Drawer.....	10

## URL Resources (Website, Video, GitHub)

Website: <https://final-project-48ee2.web.app/#/>

Video link: <https://youtu.be/u9xl-5b55J8>

GitHub link: [https://github.com/Ashesi-Org/50932024\\_final\\_project](https://github.com/Ashesi-Org/50932024_final_project)

## Abstract

Building on the idea of one of my favourite tools, Coolors.co, an online tool to generate colour schemes that makes it simple for users to make use of beautiful colour schemes. My social media app was created with a similar idea in mind, allowing users to freely submit their preferred colour schemes unanimously for projects that others may use in their Web development and technology projects, or really any projects at all. Using a simple yet intuitive design, this social networking app allows users to add a broad range of colour combinations in RGB form as well as notes on the colour's specific use. As a result, it is simpler for them to match colours with pre-existing branding or design features they have in mind.

## Description

Welcome to [Coolors++](#) social media app, designed to make your web development and technology projects even better! Inspired by Coolors.co, this app allows you to freely submit your preferred colour schemes for others to use. But that's not all, it takes a step further by adding a social networking aspect to it. It allows users to connect with others on campus and collaborate on projects unanimously and asynchronously.

One of the key features of this app is the [Create Profile Page](#), where you can submit all your necessary information, including your student ID number, name, email, date of birth, year group, major, campus residence status, favourite food, and favourite movie. This information is stored securely in a firebase database, where you can edit it anytime you want (except for your name, student ID, and email) using the [Edit Profile Page](#).

The key feature of this flutter app is the [Feed Page](#), which shows all the posts made by users in descending order of time where it updates in real-time when a new post is made, so you'll always be up to date on what's going on. Plus, you can easily create your own posts using the [Create Post Page](#) where you enter your email before you submit.

But that's not all! Whenever there's a new post, an email notification is sent out to all users, stating that a post has been made along with the name of the user who made the post. This way, you'll never miss out on anything important.

In terms of the backend, Flask is used to provide RESTful APIs for user registration, authentication, and data manipulation using Firebase Authentication for user authentication and Firebase Firestore as a NoSQL database to store user data. Additionally, the backend uses the hashlib module to hash user passwords and the smtplib module to send emails.

## How to test system

### Creating an account and logging in

It is quite easy and intuitive to use this app.

- Create an account if you do not have one already on the welcome page.
- On the create account page enter all your relevant details as required
- With that done, you are directed to a login page where you enter your relevant details again. That's it!

### Navigating the dashboard/home page

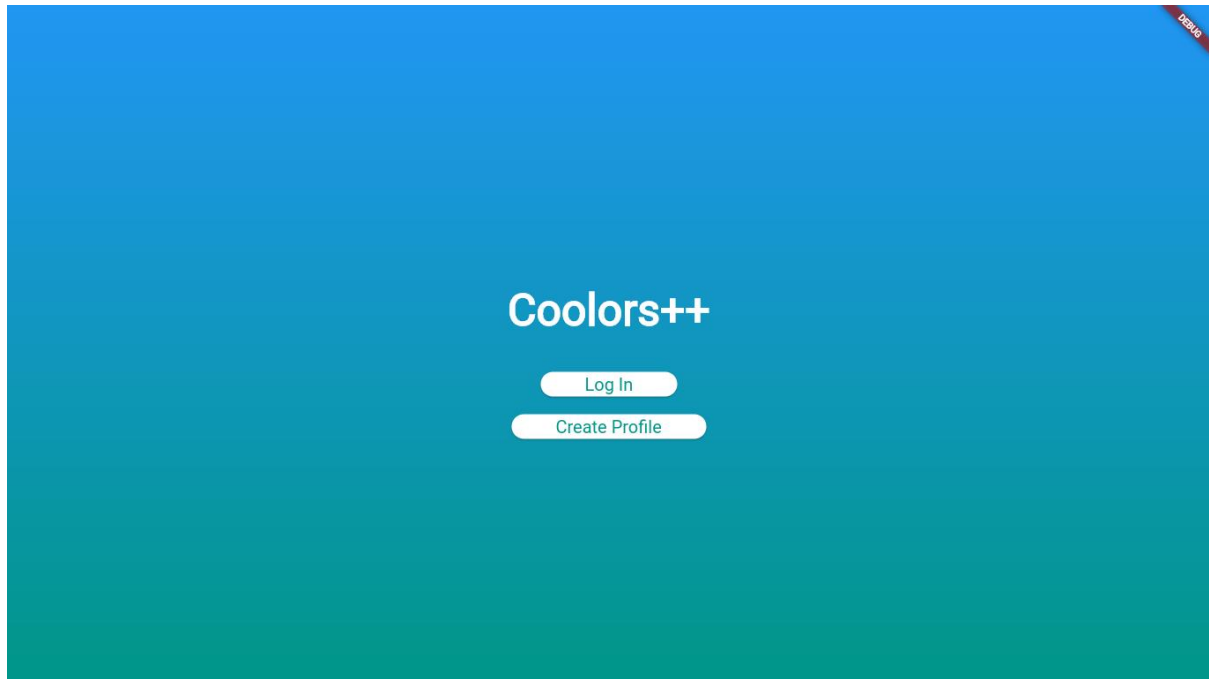
- On login you are automatically directed to the feeds on the dashboard/home page, where you can view posts made by other users.
- By clicking on create on the bottom navigation bar, you can create your new post and then enter all relevant information before clicking on "Add colours" where you are required to enter your email before entering a new post. With any new post made, emails would be sent to all users regarding your updates.

### Drawer

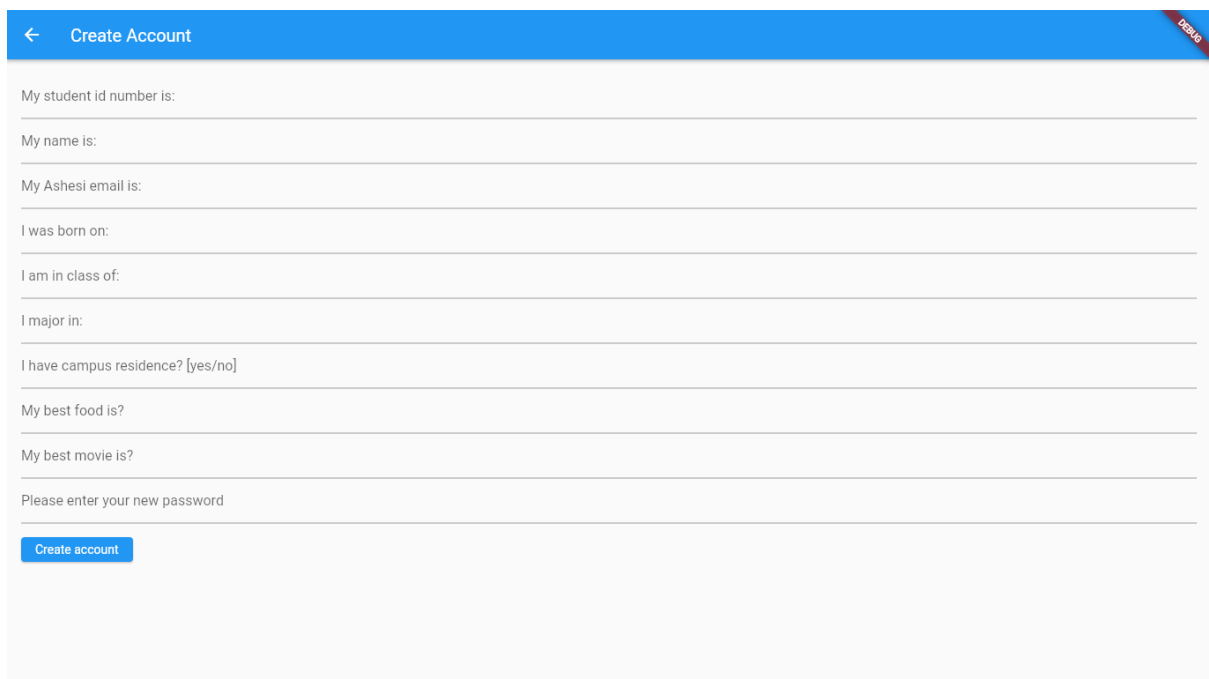
- The drawer contains three buttons, view profile where, by entering you email address, you can view your profile.
- The edit profile page again, by following the same process of entering you email enables you to edit you profile details.
- The logout page brings you to the welcome page.

## Media resources

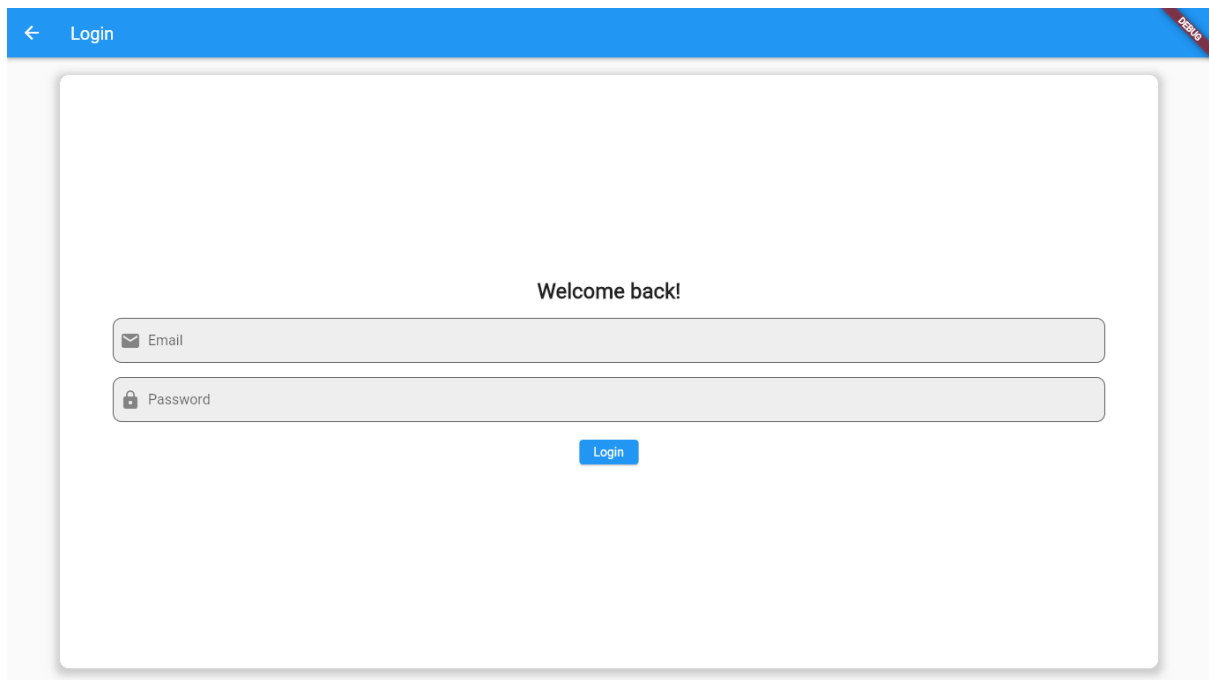
### 1. Welcome page.



### 2. Create account page.

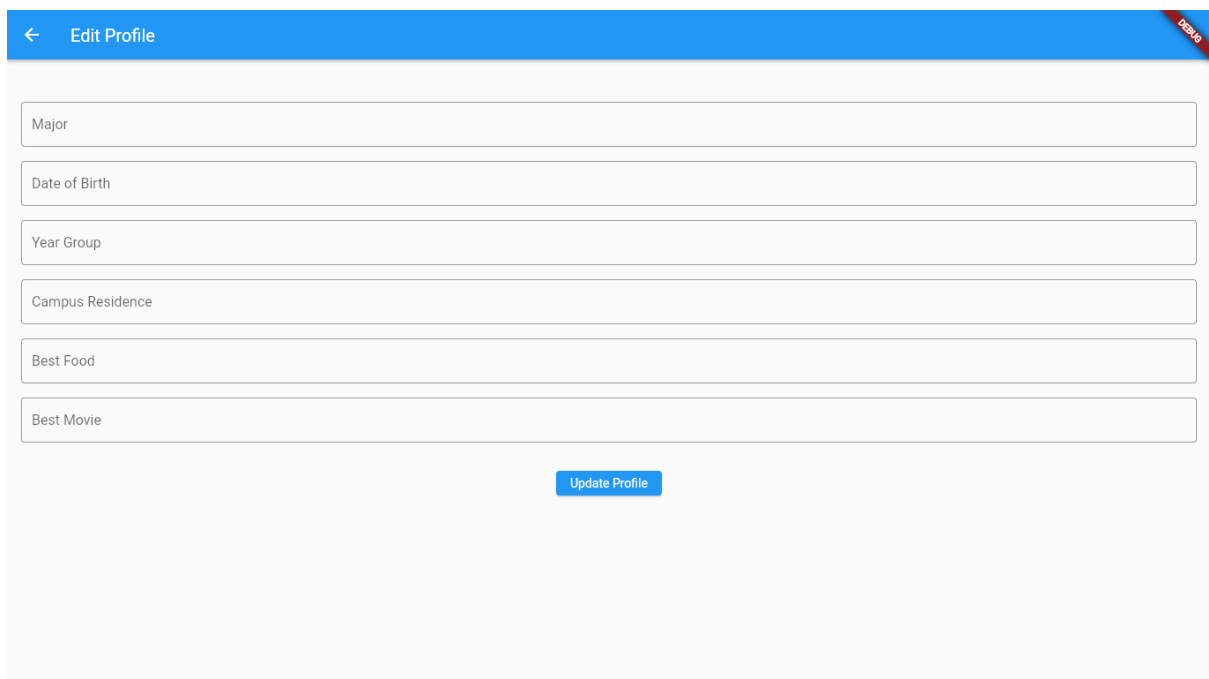
A screenshot of the "Create Account" form. The form has a blue header bar with a back arrow and the text "Create Account". Below the header, there are several input fields with labels: "My student id number is:", "My name is:", "My Ashesi email is:", "I was born on:", "I am in class of:", "I major in:", "I have campus residence? [yes/no]", "My best food is?", "My best movie is?", and "Please enter your new password". At the bottom, there is a blue button labeled "Create account". A small red "draft" label is visible in the top right corner.

### 3. Login page.



The login page features a blue header bar with a back arrow and the text "Login". A red "DEMO" banner is in the top right corner. The main content area is a white card with a light gray shadow. Inside the card, the text "Welcome back!" is centered. Below it are two input fields: the first is labeled "Email" with an envelope icon, and the second is labeled "Password" with a lock icon. A blue "Login" button is centered below the password field.

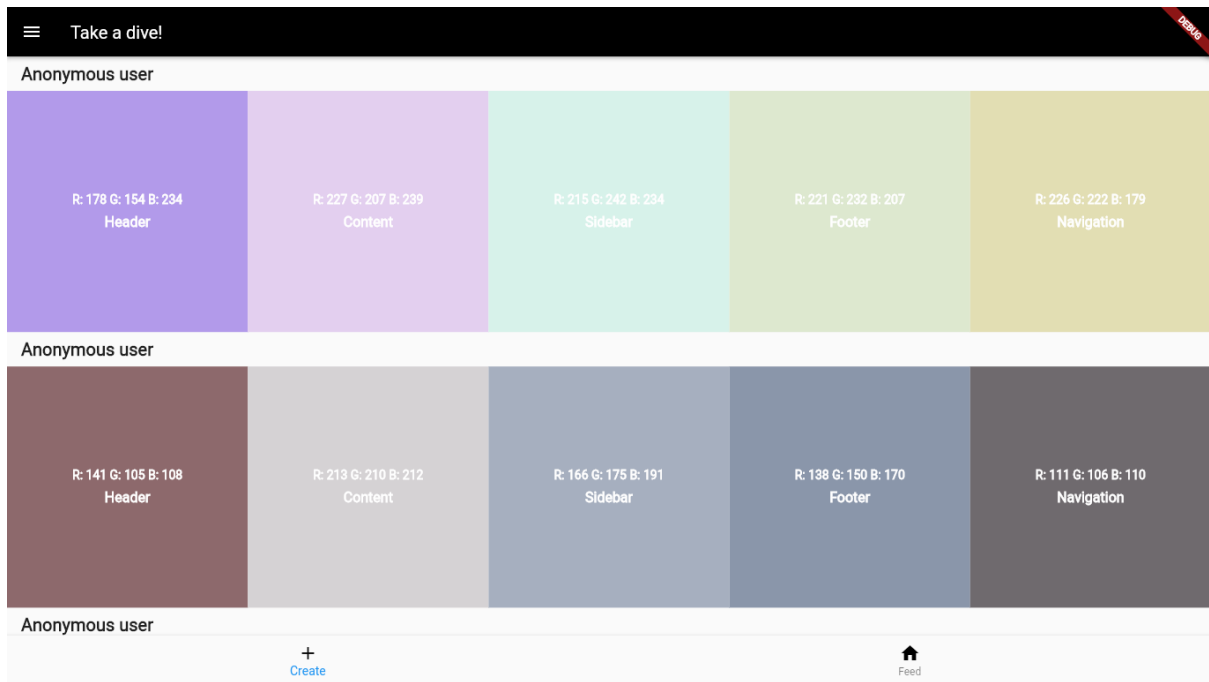
### 4. Edit Profile Page.



The edit profile page has a blue header bar with a back arrow and the text "Edit Profile". A red "DEMO" banner is in the top right corner. The main content area is a white card with a light gray shadow. Inside the card, there are six input fields stacked vertically, each with a light gray placeholder text: "Major", "Date of Birth", "Year Group", "Campus Residence", "Best Food", and "Best Movie". A blue "Update Profile" button is centered at the bottom of the card.

### 5. Dashboard/ homepage.





## 6. View profile Page.



## 7. Post page/ create page.

≡

Take a dive!

new

Create your new RGB entry and add a text to describe it!

Input 0

Red (0-255)

Green (0-255)

Blue (0-255)

Text

Input 1

Red (0-255)

Green (0-255)

Blue (0-255)

Text

Input 2

Red (0-255)

Green (0-255)

Blue (0-255)

Text

Input 3

Red (0-255)

Green (0-255)

Blue (0-255)

Text

Input 4

Red (0-255)

Green (0-255)

Blue (0-255)

Text

Add colors

+

Create

Feed

## 8. Drawer.

Bio

new

View Profile

Edit Profile

Logout

R: 227 G: 207 B: 239  
Content

R: 215 G: 242 B: 234  
Sidebar

R: 221 G: 232 B: 207  
Footer

R: 226 G: 222 B: 179  
Navigation

R: 213 G: 210 B: 212  
Content

R: 166 G: 175 B: 191  
Sidebar

R: 138 G: 150 B: 170  
Footer

R: 111 G: 106 B: 110  
Navigation

+

Create

Feed