

DalSocial

Find your hive!

Our Team

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Big C

Problem

Finding like minded people who have the same interest could be challenging especially if you are new to the university and are in a new country.

There might be apps like meetup but our app is particularly for the University students which helps in meeting new people from different branches, form a group and organize events inside the university. Through our app, users can find new people and can interact with them easily.

Target Audience - Who?

Students who are looking to make friends and find groups with similar interests.

Event organizers who wants to host events such as club events, hackathons, info sessions etc.

Target Audience - Where?

Our target audience are basically students from a particular university including event organizers for various clubs in the university.

Application features

- A user can search for people and make new friends who have similar mindset
- A user can enter their likes and hobbies such as sports, interests etc.
- A user can give their social media profiles like instagram, facebook and linkedIn while registering.
- All users receive a notification whenever someone matches with their profile
- A user can chat with other user whose profiles are matched with each other.
- A user can create a new event and look at the pre-existing events and join them.
- A user can participate in an event by posting comments in the discussion
- A user can share their contact details with another user using a QR code scan.
- A user can create or join groups and can meet everyone by organizing group meetups.

Significant Attributes

Security: We use Firebase authentication to store user credentials in a secure manner.

Usability: Applied Neilson's Heuristics wherever possible

Accessibility: Chat with the people that match your interests.

Legal Compliance: We provide minimalistic user privacy and the user needs to be above 18.

Why they need this application?

- According to cbcnews, more than half of the teens make new friends online [1].
- In future, 93% of event marketers are planning to invest in virtual events [2].
- Using meeting apps can be positive for mental health and well-being [3].
- To interact easily with people over a single click
- To meet new like minded people and expand their social group
- To have a discussion who can understand and relate with them without actually knowing them
- To spend the time together doing the things they usually like to do
- To organize study groups which can help them with the academic activities
- To gain knowledge from other people by having a conversation
- To help or get help from having mental health issues i.e. going out with a friend can sometimes help a person regaining his emotional strength.
- To showcase any of your personal works such as baking, painting etc.
- To easily know about the available clubs to join and to easily organize/promote the clubs by creating them in the app.

How you can get this application?

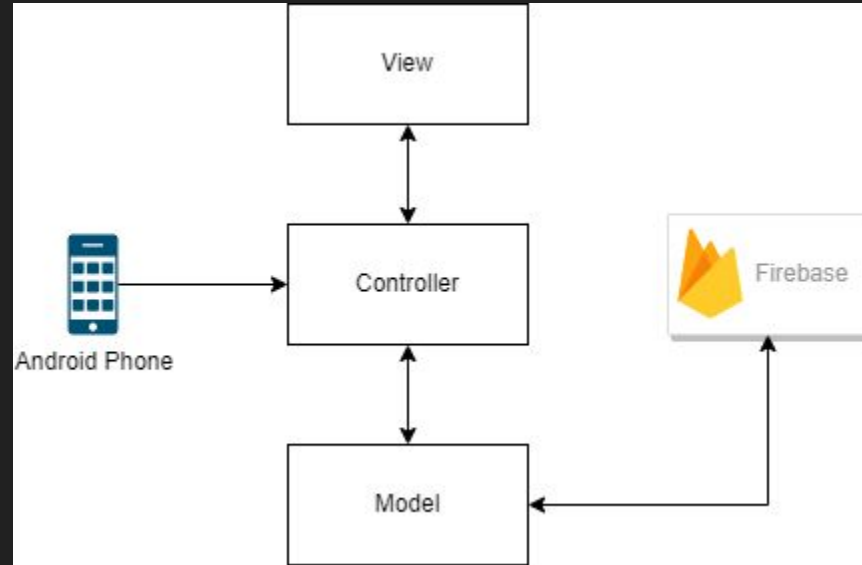
- The application could be published on Play Store.
- Or maybe Dalhousie University can host a service for serving mobile applications (An opportunity to increase revenue for the university?)

Business model

- Freemium: The app is free to download on the Play Store. Tickets for paid users could be purchased by the users.
- Peer-to-peer Business Model: For every Event ticket purchase, we will get a 10% commission for the price of the ticket.

Technical Aspects

Architecture



Technical Problems Faced

- Different techniques to achieve asynchronous programming
- Matchmaking feature was a bit challenging to design
- When to use activities vs fragments?
- For some of us, Kotlin was a new language to be learned and implemented
- Some deprecated methods
- Gradle/SDK issues

Efforts

- Implemented proper design patterns (Avoid singletons, use state machine etc)
- Create a model if required, use interfaces and use dependency injection
- Test the app in detail for bugs, and test with many emulators and devices
- Share learning experiences
- Use Git Flow for branching, really makes it easy to work on features.

Commit statistics for main Oct 31 - Nov 27

Excluding merge commits. Limited to 2,000 commits.

- Total: **75 commits**
- Average per day: **2.7 commits**
- Authors: **6**

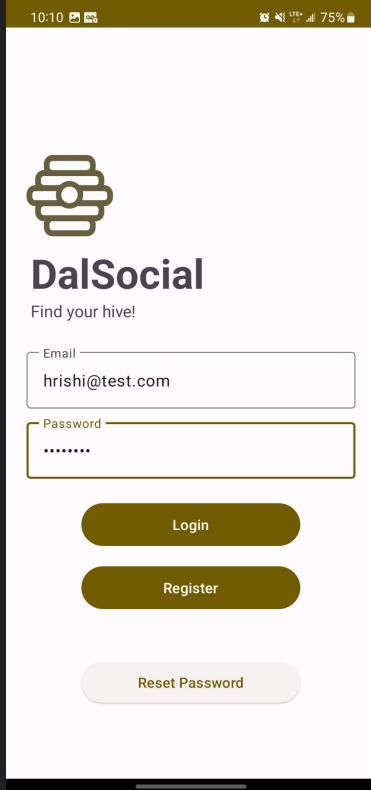
UI/UX

- Material 3 components and theming were used to give a modern look.
- Attempted to apply Nielsen's heuristics wherever possible.


QA

- Application is properly packaged with each respective module being kept separately thus improving the quality of code writing and understanding for new developers.
- Errors being displayed when a service is interrupted and the models are kept in try-catch blocks for maintaining consistency.
- All the features are tested manually followed by an integration testing.
- This application was also reviewed from the perspective of a user (outside of the team) to get proper insights on how things can be improved.
- Using Developer Logs to debug. Any firebase errors are handled gracefully and translated to simple terms to the user.

Login



10:10 [status icons] 75%



DalSocial

Find your hive!

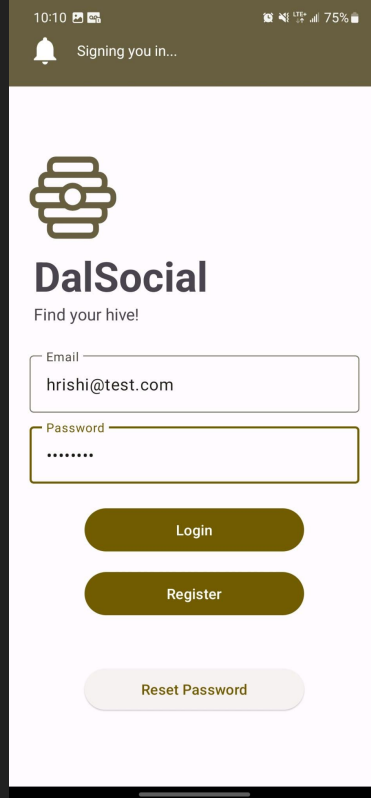
Email

Password


Login


Register

Reset Password



10:10 [status icons] 75%

 Signing you in...



DalSocial

Find your hive!

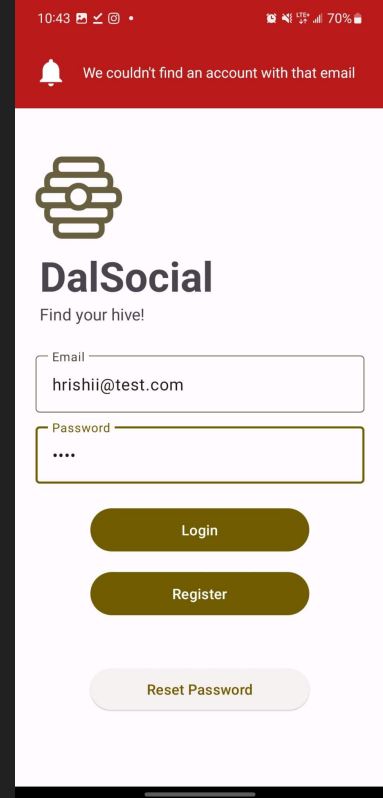
Email

Password


Login


Register

Reset Password



10:43 [status icons] 70%

 We couldn't find an account with that email



DalSocial

Find your hive!

Email

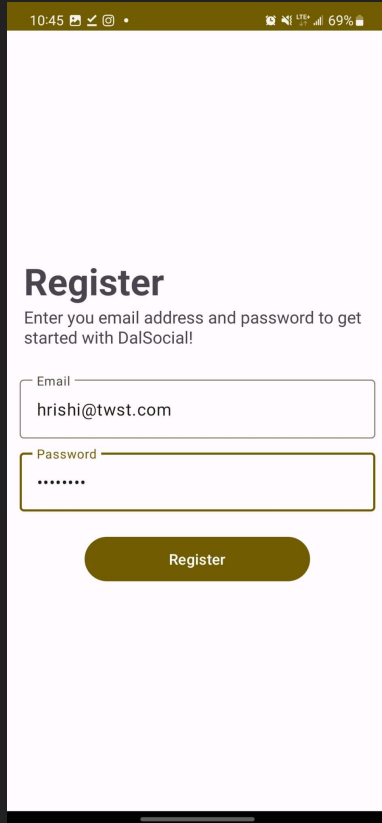
Password

Login

Register

Reset Password

Registration and Onboarding



10:45

Register

Enter you email address and password to get started with DalSocial!

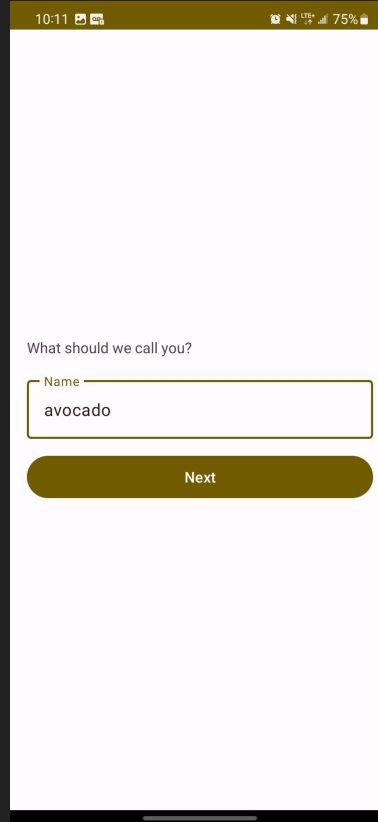
Email

hrishi@twst.com

Password

Register

This screen shows the registration process. It has a title 'Register' and a subtitle 'Enter you email address and password to get started with DalSocial!'. There are two input fields: 'Email' with the value 'hrishi@twst.com' and 'Password' with masked characters. A green 'Register' button is at the bottom.



10:11

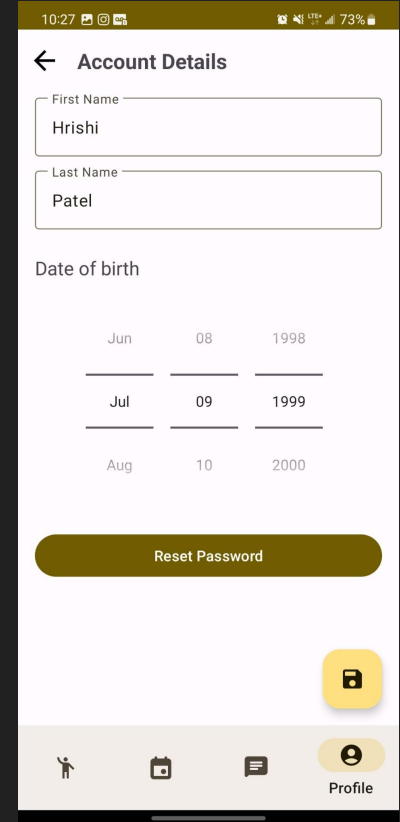
What should we call you?

Name

avocado

Next

This screen prompts the user for their name. It has a title 'What should we call you?' and an input field 'Name' with the value 'avocado'. A green 'Next' button is at the bottom.



10:27

Account Details

First Name

Hrishi

Last Name

Patel

Date of birth

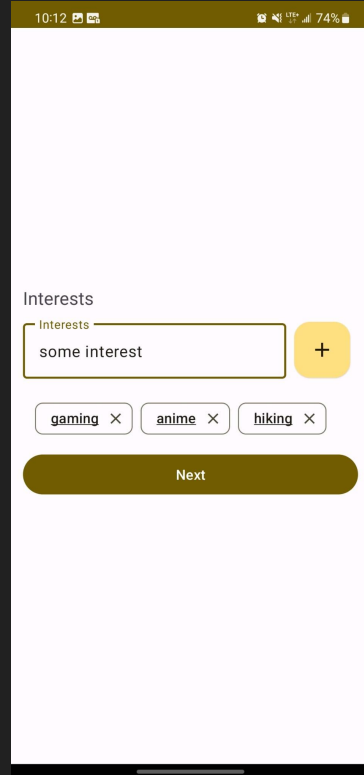
Jun	08	1998
Jul	09	1999
Aug	10	2000

Reset Password

Profile

This screen shows the account details. It has a title 'Account Details' and a back arrow. There are two input fields: 'First Name' with the value 'Hrishi' and 'Last Name' with the value 'Patel'. Below them is a 'Date of birth' section with a table of months and years. A green 'Reset Password' button is at the bottom. A 'Profile' button is at the bottom right.

Registration and Onboarding



10:12 5G 74%

Interests

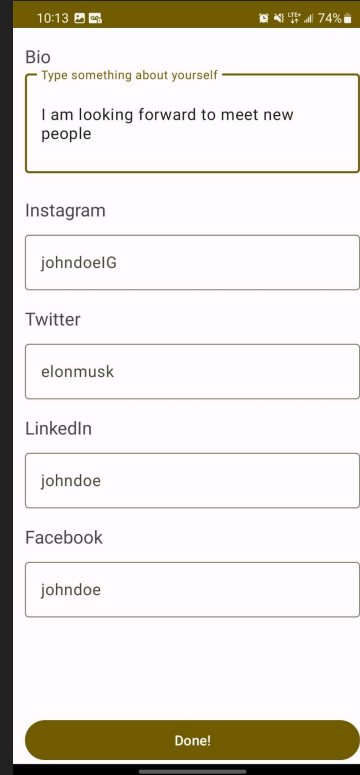
Interests

some interest

+

gaming × anime × hiking ×

Next



10:13 5G 74%

Bio

Type something about yourself

I am looking forward to meet new people

Instagram

johndoeIG

Twitter

elonmusk

LinkedIn

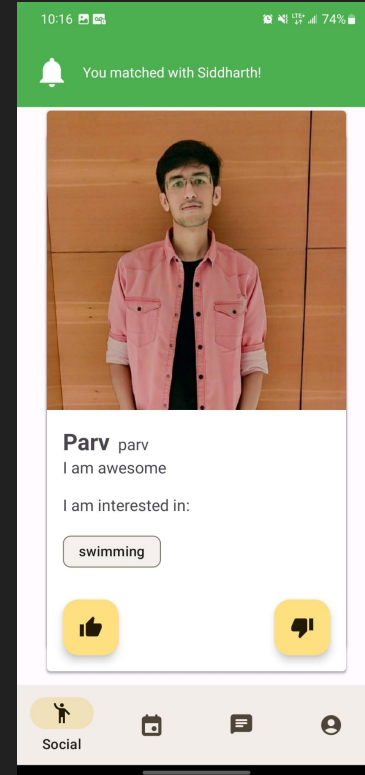
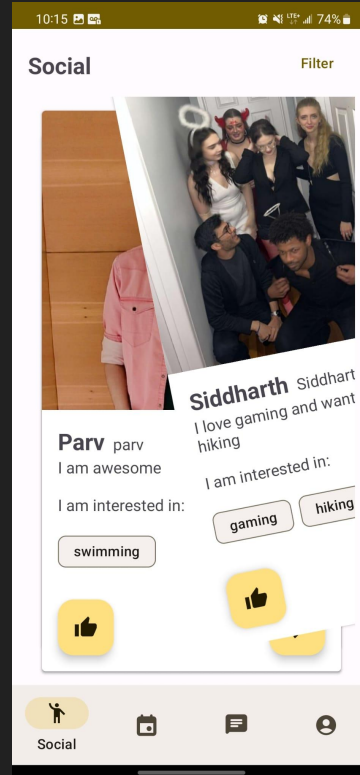
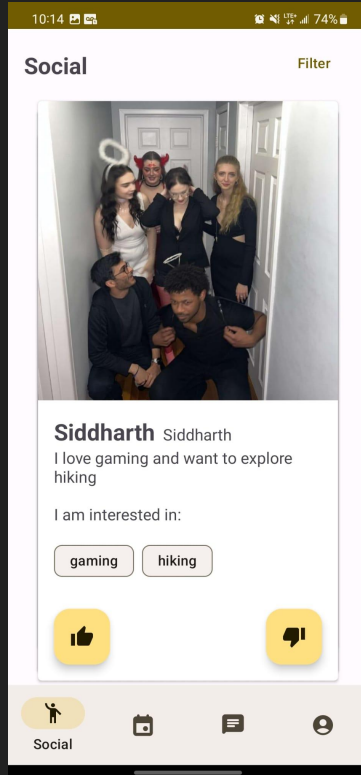
johndoe

Facebook

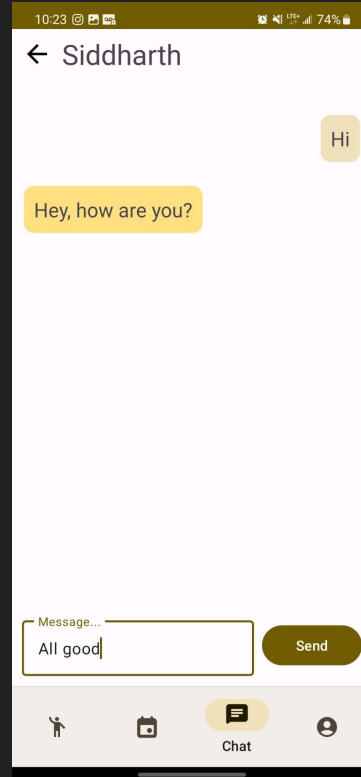
johndoe

Done!

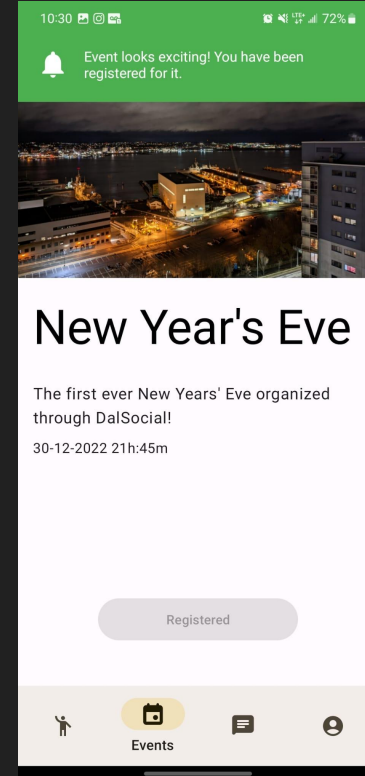
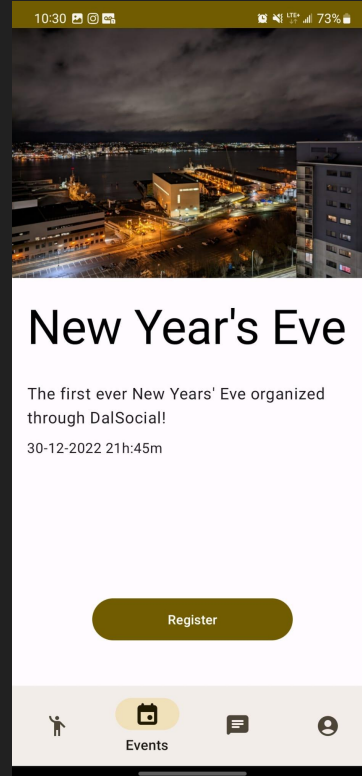
Social



Chat




Events




Create events

10:32



LTE+

72%



Details

Title

Christmas Event 2

Required*

Description


Halifax's Christmas Event. Let's go!

Required*


Date


29-11-2022 0s:0s

Required*





Create





Events

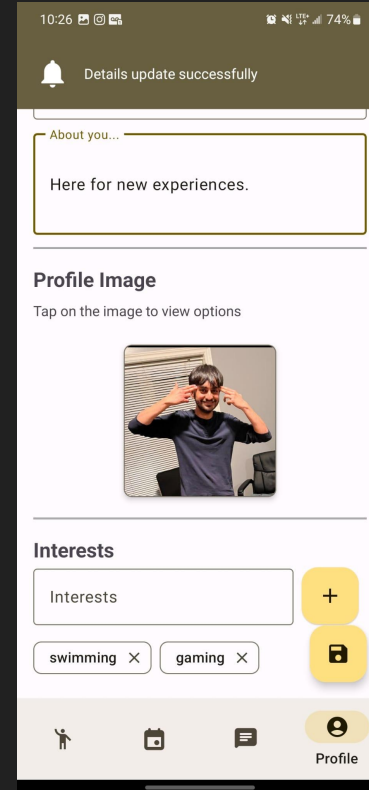
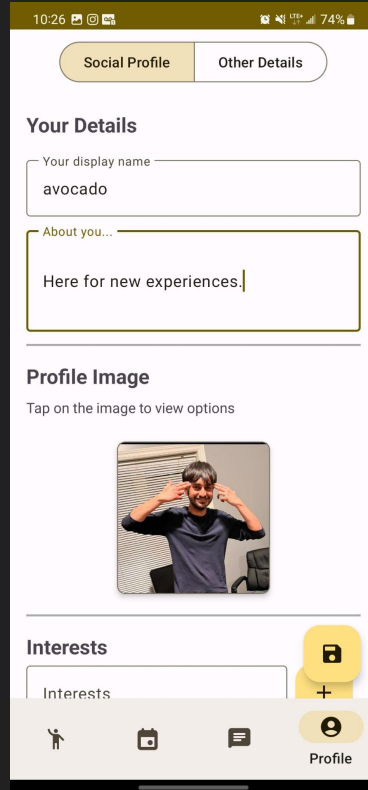
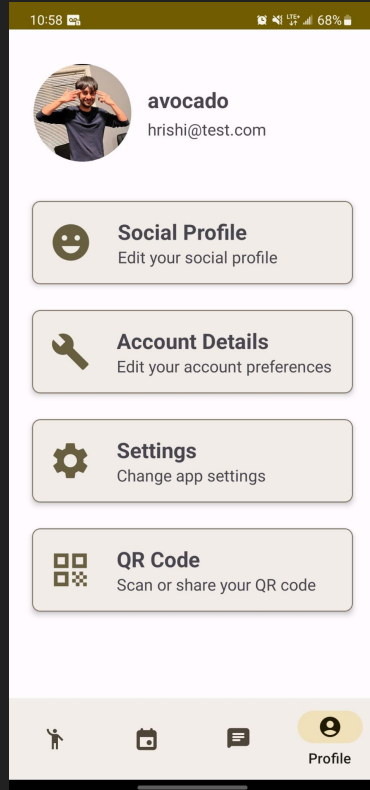




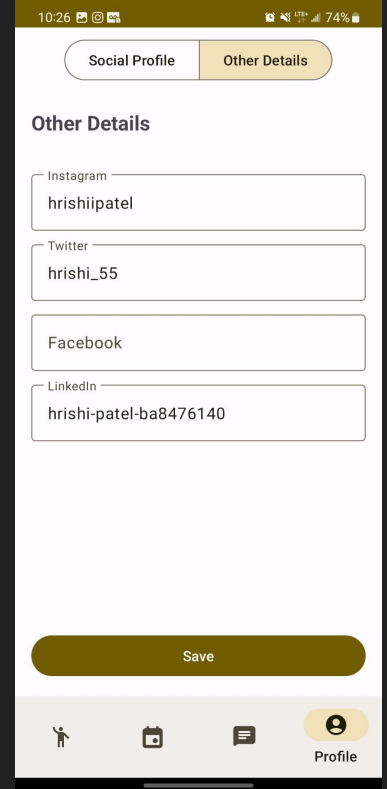
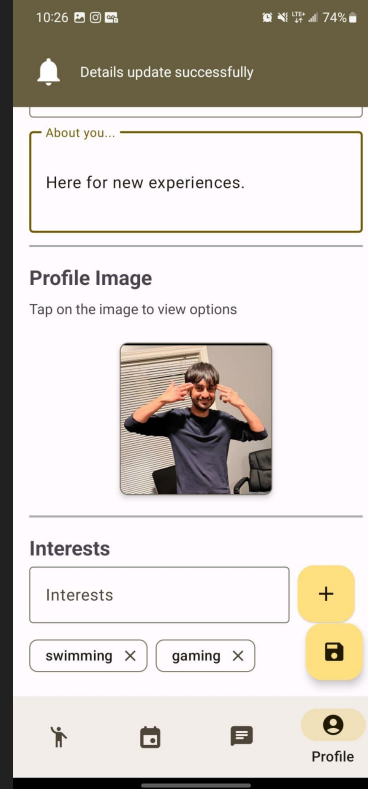
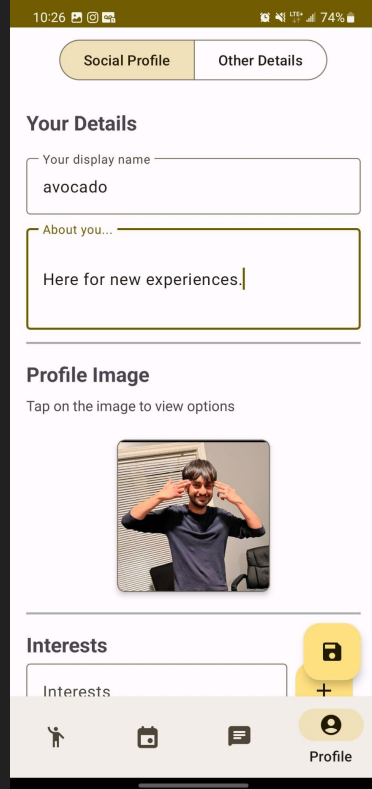
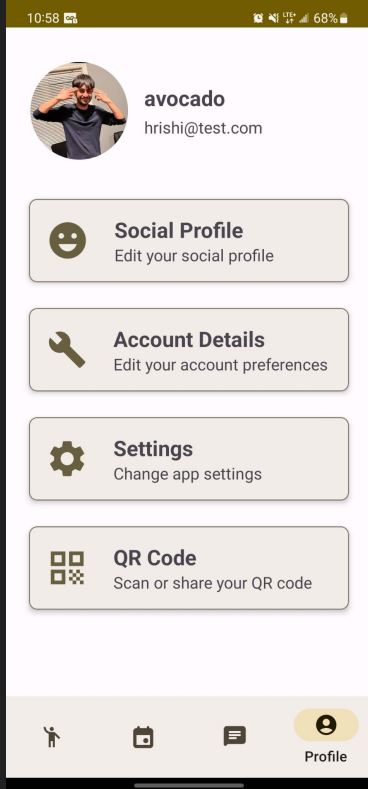
A screenshot of a mobile application interface for a Christmas event. The top status bar shows the time 10:33, various icons, and a battery level of 72%. Below this is a green header with a white bell icon and the text "Event Created". The main visual is a large, vibrant photograph of a Christmas light display at night, featuring a large, brightly lit Christmas tree and various festive decorations. Below the photo, the title "Christmas Event 2" is displayed in a large, black, sans-serif font. Underneath the title, the text "Halifax's Christmas Event. Let's go." is shown in a smaller, black, sans-serif font, followed by the date and time "29-11-2022 0s:0s". At the bottom of the screen is a navigation bar with four icons: a person icon, a calendar icon, a speech bubble icon, and a profile icon. The calendar icon is highlighted with a yellow background and the word "Events" below it. Above the calendar icon, the word "Registered" is displayed in a light gray box. To the right of the calendar icon, there is a yellow button with a white trash can icon.

A screenshot of a mobile application interface. At the top, a status bar shows the time 10:33 and various icons. Below this is a header bar with a yellow background. On the left of the header is a circular profile picture of a group of five people. To the right of the picture, the name "Siddharth" is displayed in a large, bold, black font, and below it, the email address "ksiddharth127@gmail.com" is shown in a smaller black font. The main body of the screen is a solid light yellow color. At the bottom, there is a navigation bar with a light yellow background. It contains four icons: a person silhouette, a calendar icon, a speech bubble, and a person silhouette. The "Events" text is centered below the calendar icon.





Profile and Settings




Profile and Settings



Profile and Settings

10:2773%

 **Account Details**

First Name

Hrishi

Last Name

Patel

Date of birth

Jun

08

1998

Jul

09


1999


Aug

10

2000

Reset Password



 Profile

A screenshot of the QRify mobile application. At the top, the status bar shows the time 10:28 and various icons. The app's header features a back arrow and the title "QRify". Below the header, a text block explains the app's purpose: "Let someone scan your QR code to share your profile with them. Scan their QR code to view their profile." In the center of the screen is a large, square QR code. Below the QR code is a rounded rectangular button with the text "Scan QR Code". At the bottom of the screen is a navigation bar with four icons: a person, a calendar, a speech bubble, and a profile icon. The "Profile" icon is highlighted with a yellow background, and the word "Profile" is written below it.

A screenshot of a mobile application interface. At the top, the status bar shows the time 10:30, battery level at 73%, and various system icons. The app's header bar is dark with a title bar that says "Copy of Pixel 3a API 30". Below the header, the main content area has a light gray background. It features a back arrow icon on the left, followed by the text "QRify". Below this text is a paragraph: "Let someone scan your QR code to share your profile with them. Scan their QR code to view their profile." In the center of the screen is a large, square QR code. Below the QR code, the text "Scan QR Code" is displayed. At the bottom of the screen is a navigation bar with four icons: a person (Profile), a calendar, a speech bubble, and a circular icon with a person silhouette. The "Profile" icon is highlighted with a yellow background, and the word "Profile" is written below it.

A screenshot of a mobile device displaying a LinkedIn profile. At the top, the status bar shows the time 10:30, signal strength, Wi-Fi, and battery level at 73%. The profile header features a photo of a man with dark hair, wearing a dark blue t-shirt, making a peace sign with both hands. Below the photo, the name "Hrishi Patel" is displayed in bold, followed by "(avocado)" in a lighter font. Underneath the name is the text "Here for new experiences." Below this is a row of four social media icons: Facebook, LinkedIn, Instagram, and Twitter, each inside a yellow rounded square. At the bottom of the profile section is a grey button with the text "Add them!". The bottom of the screen shows a navigation bar with four icons: a person, a calendar, a speech bubble, and a profile icon (a person's head inside a yellow circle). The word "Profile" is written below the profile icon.

Reset Password

10:35

Reset Password

Enter your email address to receive a password reset email.

Email Address

hrish@test.com

Send reset password email

10:35

Email sent successfully to hrish@test.com

password reset email.

Email Address

hrish@test.com

Send reset password email

References

1. “More than half of teens make New Friends Online,” *CBS News*, 06-Aug-2015. [Online]. Available: <https://www.cbsnews.com/news/more-than-half-of-teens-make-new-friends-online-pew-poll/> [Accessed: 29-Nov-2022].
2. “80 event statistics you need to know for 2022,” *Visme Blog*, 17-Nov-2022. [Online]. Available: <https://visme.co/blog/event-statistics/> [Accessed: 29-Nov-2022].
3. K. Naruse, “7 ways social media can benefit mental health,” *Painted Brain*, 01-Nov-2022. [Online]. Available: <https://paintedbrain.org/editorial/7-ways-social-media-can-benefit-mental-health-2/>. [Accessed: 29-Nov-2022].