**ANDROID PROJECT**

**Application Name:** INTERAC

**Team Members:**

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**Issues:**

Centralizing all campus-related information in one place. This one application can help new and fresher students make their college lives easier and more enjoyable.

This application will allow students to take advantage of the college's facilities right from the start. This android project concept is one of those rare ideas that has the potential to change the way people do things and interact with one another.

**Activities:**

1. Home Screen
2. Launch Screen
3. Register
4. Log In
5. Reset

Screen 1 – Forget Password

Screen 2 – Reset Password

Screen 3 – Reset Confirmation

1. Dashboard
2. About Us
3. Academic Calendar
4. Campus Resources
5. Connect People
6. Events
7. Food courts
8. Snapshots
9. My Profile
10. Organizations
11. **Home Screen**

It includes the logo and title of the application and the features of signup and login where the user can sign up if the user enters the application for the first time. And have login option to enter the application if the user is already registered.

Text

Description automatically generated with medium confidence

1. **Login**

The login screen allows the user to enter the application using username and password once the user is registered. User can reset the password from this screen if he/she forgets their password. And redirects to signup page if he/she is first time user.

A picture containing graphical user interface

Description automatically generated

1. **Register**

Here the user id requested to sign up by providing their details like Username, S - number, password and to accept the policies.

Text

Description automatically generated

1. **Reset Screen**

Reset screen allows user to provide the new password

**Screen 1:** Requests for mail id to generate 4-digit code.

Graphical user interface, text, application

Description automatically generated

**Screen 2:** Requests user to provide code sent and asks user to provide new password.

Graphical user interface, text, application

Description automatically generated

Screen 3: Provides information about the successful reset of the password.

Graphical user interface, application

Description automatically generated

1. **Dashboard**

Dashboard screen gives the actual content of the application with all the widgets available and from here the user can redirect to each individual screen with one click.

Circle

Description automatically generated

1. **About us**

About us screen describes the information related to the university. Here it contains the details like university establishment information, rewards and awards university received, laptops, textbooks, professional based experiences and contact details of the college. This also includes contact and social media information of the college.

Text

Description automatically generated

1. **Academic Calendar**

Academic calendar screen shows the information of the holidays and course start and end dates for current and following academic years. These events may include examination dates, different breaks as per the month.

A picture containing table

Description automatically generated

1. **Campus Resources**

The campus resources screen provides the information of all the building in the college and their purpose with description. It also gives the location the building in the college map.

Graphical user interface, website

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1. **Connect People**

This screen main purpose is to connect with different people in the college who matches their thoughts using message option provided in the user profile. The user can get the information of the other person from the profile. Here the user can pick the person from different categories like employee, faculty, student, Alumni.

Diagram

Description automatically generated

1. **Events**

Events screens provide information about major events that happened in college the previous year and the list of events that will be held in the current academic year. Also gives information about the recreation activities in the campus. It includes the details about the intramurals, tournaments, competitions, clubs that are in campus for each kind of sport. We will also provide the link of bearcat’s sports if the user needs any additional information.

Graphical user interface

Description automatically generated

1. **Food courts**

Hangouts screen purpose is to give the user the list of places where all the friends can meet at a single place. It contains information about what are all food courts available and specify their timings to hang out together.

Timeline

Description automatically generated

1. **Snapshots**

Snapshots screen purpose is that an user can upload the beautiful pictures captured by user and provide description of the image which helps in improvising the creativity of the user. In this screen, the description of the image, name and profile of the user who uploaded the image are provided. It also includes like and share options so that other people can hit the like and encourage the creativity of the user.

Graphical user interface, application

Description automatically generated

1. **Profile**

This screen provides information about the user. Information can be his/her nickname, category, birthday, gender etc.,

Graphical user interface

Description automatically generated

**Flow Diagram:**

A picture containing diagram

Description automatically generated

**Identification of Risky Components:**

1. Creation of an application that is not valuable to the user or does not meet the user's expectations.
2. Poor UI Designing
3. Rejection by google play store due to insufficient security norms.
4. Risk of security violation

* Instances like failing to implement well-documented security controls or abusing platform APIs.

1. Unsafe and Defective Networking

* Data is frequently transmitted between the server and the client. When the app sends data, it makes use of the internet and the provider's network on the mobile device. Intruders could use mobile security flaws to intercept sensitive information or user details such as credentials, session IDs, and other data as it travels across the network.
* The presence of an SSL/TLS certificate does not guarantee the security of the mobile application. Highly secure mechanisms must be implemented throughout the apps and their connectivity.

1. Unreliable Data Storage

* A large amount of data may exist in various locations throughout your mobile app, such as binary data stores, SQL databases, and so on. The risk of using an unauthorized data storage system is that it will be hacked due to issues with hacked devices, platforms, or other threats.
* If a mobile app's security measures are ineffective, such as using insufficient encryption algorithms that can be circumvented by jailbreaking or rooting the device, hackers can easily circumvent them.

**Functionalities**

1. A database is required to communicate user information and navigate to the appropriate flows.
2. Pinning the location of the campus resources in the map.
3. Connecting people around the place for building a healthy and professional relations.
4. Displaying the information about the food courts and events happening around the place.
5. User will e able to share the images of the campus on the application and the users can also like and share the images which also increases the interaction.