

Test Plan Document: CollegeConnect

Group 05

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Following is a test plan that we followed during the development of our android application. It is based on an activity basis, and our application has passed all of these.

1. **Register Activity:** New users are registered through this activity. A form is provided for users to fill their data in, set a desired username and select a password of their choice.
 - Username should not be empty.
 - Password should not be empty.
 - Username should not already exist in database.
 - Password should match exactly with confirm password.
 - Seamless transitioning from register screen to newsfeed screen upon successful creation of a user.
2. **Login Activity:** Existing users of our application can sign in to the application by entering their credentials at this screen.
 - Check for existing username.
 - Check for correct password for the username provided.
 - Smooth transition to newsfeed screen after verification of user credentials.
3. **Lag:** Check if all interaction between database and application is lag-free.
4. **Feed Activity:** This is the user's newsfeed, from where they get to know of the event that were uploaded by other users and can their own events.
 - Add Event: Check for real-time database updates after adding an event.
 - Data fetch: Check if all the data in the database has been fetched and displayed to the user.
 - Image upload: Check if image was uploaded in the database and then displayed to the user after screen was refreshed.
5. **Conversation Activity:**
 - Check if all users that the logged in user has chatted with are being displayed in the list.
 - Check if new chat button leads to search user screen so that a new conversation might be initiated.
6. **Chat Activity:** Conversation with a particular user are listed.
 - Check if all messages between the two users are being displayed.
 - Check if new message sent is displayed on screen immediately.
 - Check if receiver received new message upon logging in.
 - Check if new messages are being received.

7. **Profile Activity:** Users personal information is displayed on this page.
 - Check if all the information that is being displayed to the user was provided by user only.
 - Check if all the information that the user provided is being displayed, nothing is left out.
 - Profile information is updated instantaneously in the database, and is shown to user.
8. **Profile Search:** Lookup registered users.
 - Check if all the users matching search string “regex” are displayed in the results.
 - Check if selecting a user smoothly transits to displaying their profile.
9. **Conversation search:** Lookup users to initiate chat.
 - Check if all the users matching search string “regex” are displayed in the results.
 - Check if selecting a user smoothly transits to chat screen between the two users.
10. **Screen Transition:**
 - Check if transition between the screens are lag-free and no information is lost.