

COGNITIVE WALKTHROUGH

For

Project no. 7

Classroom Visualization App1

Group no. 16

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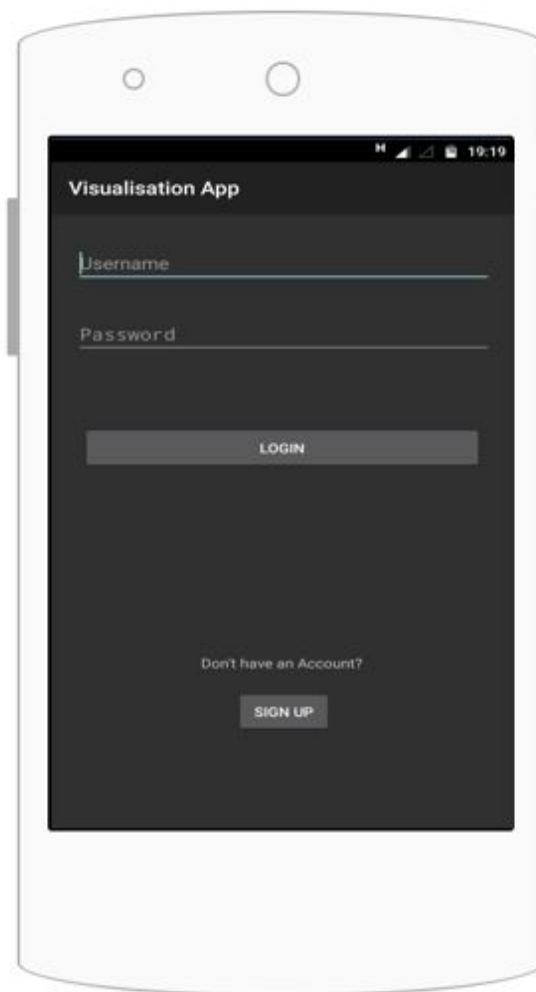
1. Users/Team Details:

User/Academic Level	User Name	User Roll No. & Department	User Category
18 year old college student not familiar with the app and having no idea about the app.	Agrata Patel	Department of Design (160201003)	Novice
19 year old college student who has somewhat idea of the app.	Aadil Hoda	CSE (160101001)	Intermediate
20 year old college student who is familiar with the app and knows how to use it.	Ansh Sood	CSE (160101012)	Expert

2. Representative tasks (including screenshots) for evaluation along with action sequences:

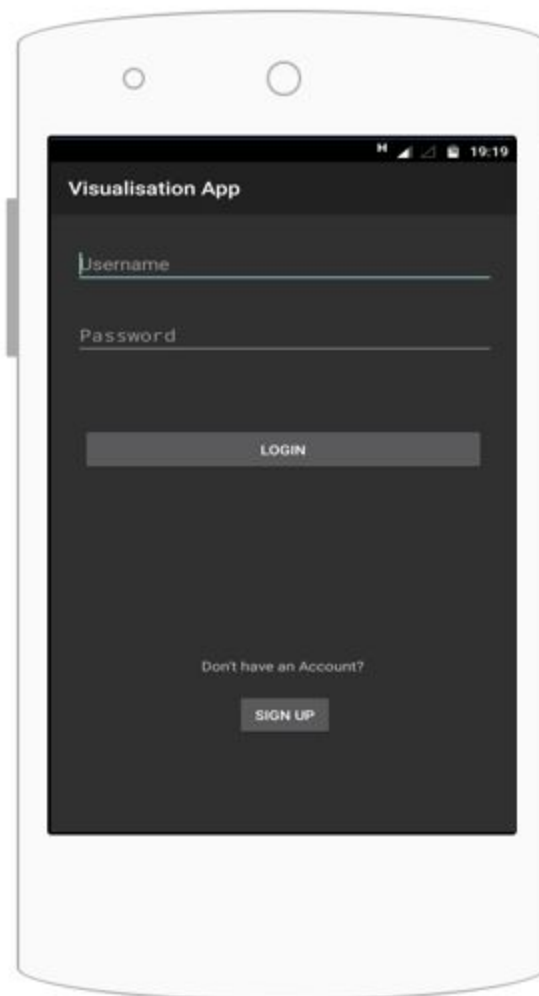
2.1 Login:

- Description: The user has fill in his/her credentials and press login to login to his/her account.
- Action Sequence:
 1. The user enters his/her username and password in the required fields.
 2. The user clicks the Login button. (Result: The app directs the user to the HOME page.)



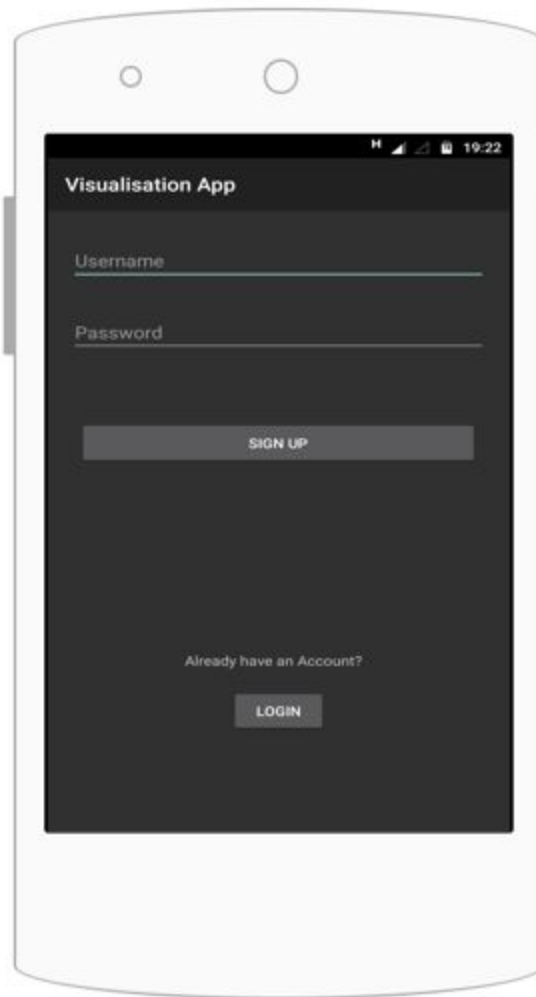
2.2 SignUp:

- Description: The user has fill in the details and press SignUp to create his/her account.
- Action Sequence:
 1. The user clicks on SignUp button if he is on the LogIn page.



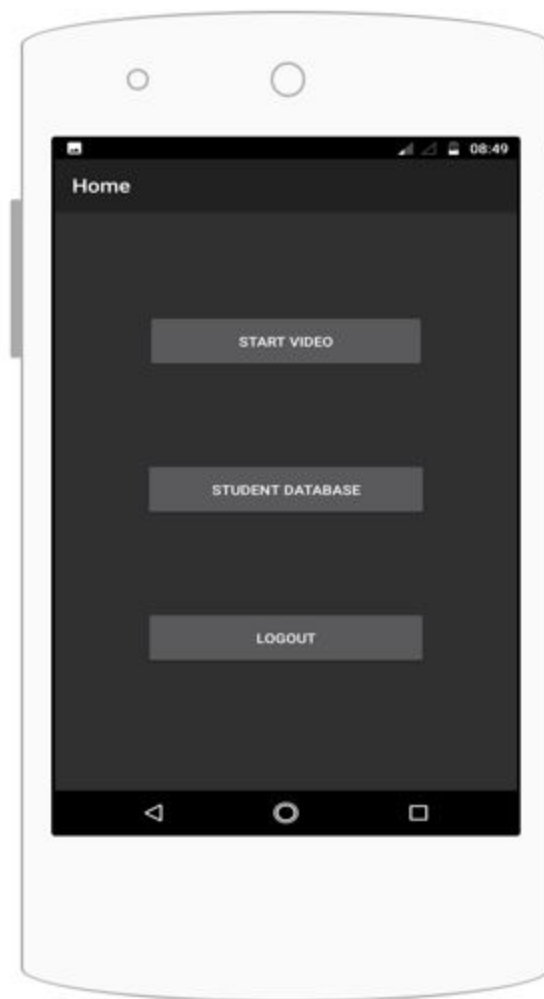
2. The user enters his/her username and password in the required fields for his new account.

3. The user clicks the SignUp button. (Result: The app directs the user to the HOME page.)

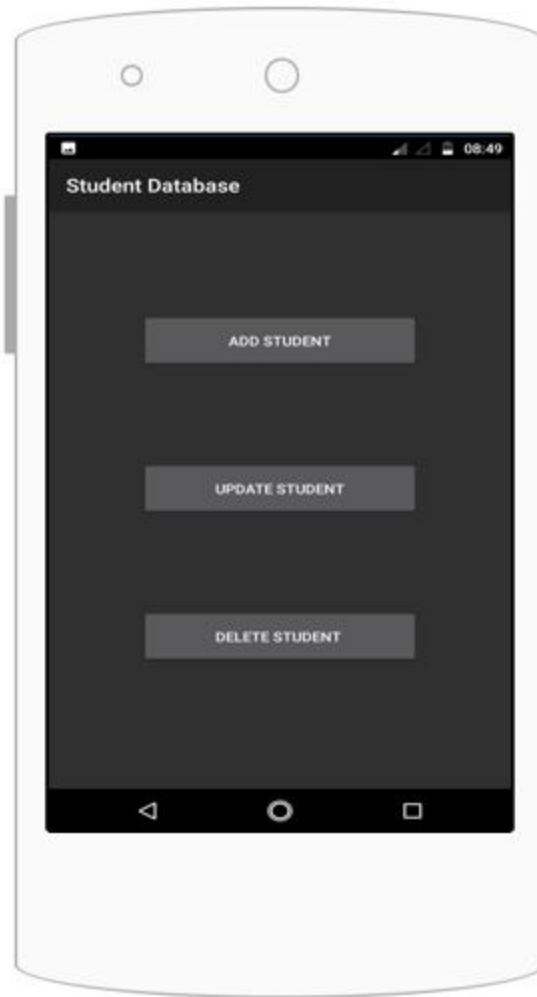


2.3 Add a new Student's Details to Database:

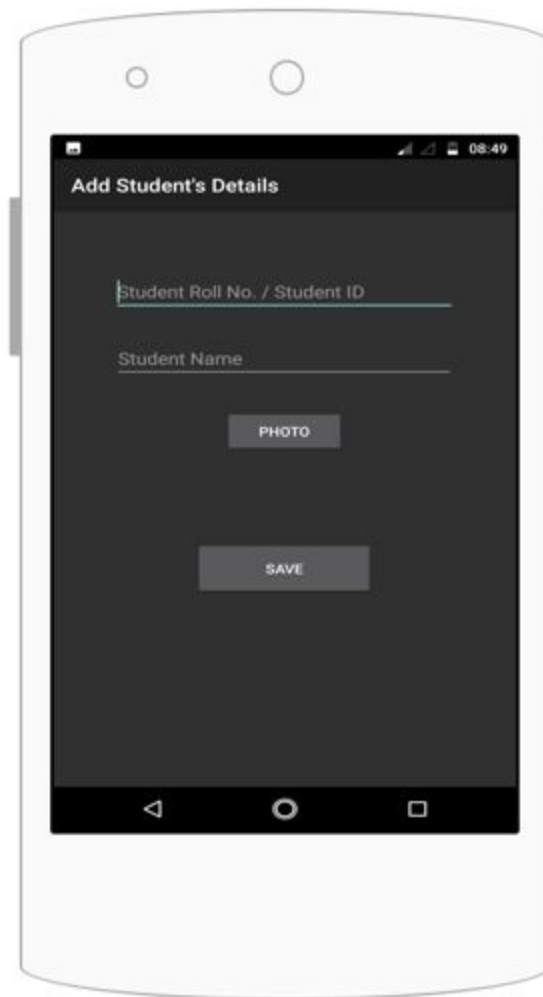
- Description: The user has to add details of a new student and go back to the main screen.
- Action Sequence:
 1. The user has to click on the Student Database button in the Home page. (Result: The app directs the user to the Student Database page.)



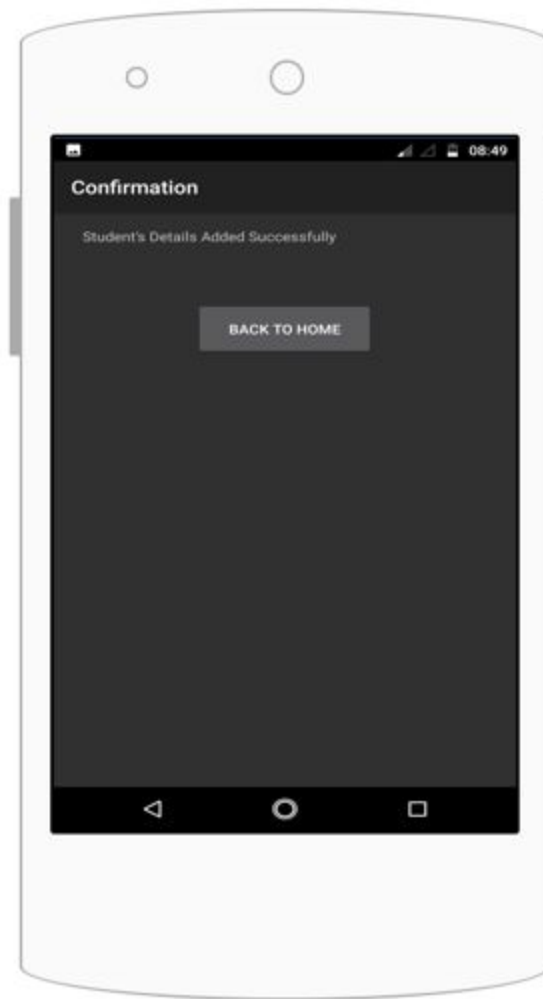
2. The user has to click on the Add Student button.
(Result: The app directs the user to the Add Student's Details page.)



3. The user has to fill in the details of the student and upload his/her photo.
4. The user has to click on Save button. (Result: The student details and face image are added in the database and the app shows a confirmation message.)

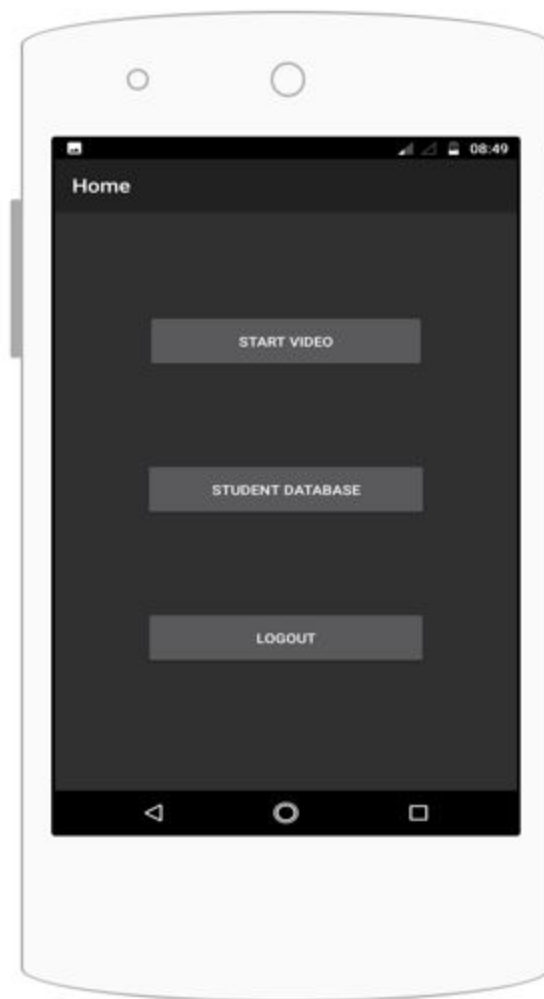


5. The user has to click on Back To Home button. (Result: The app directs the user back to the Home page.)

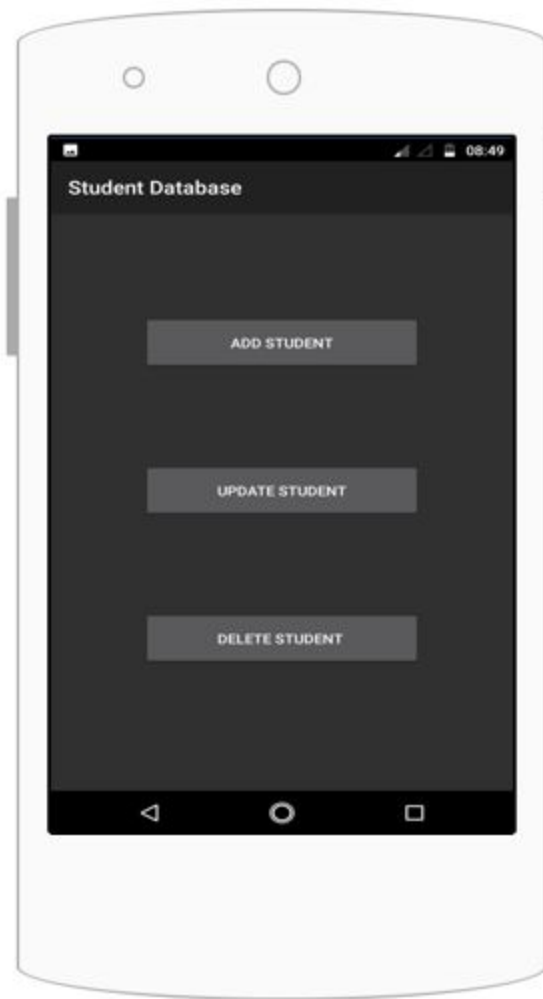


2.4 Edit a Student's Details:

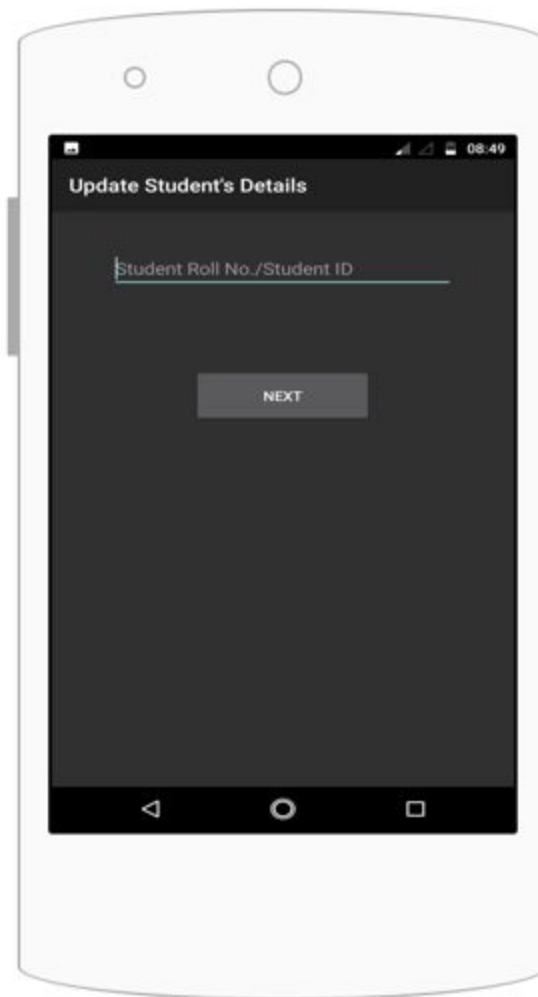
- Description: The user has to update details of a student and go back to the main screen.
- Action Sequence:
 1. The user has to click on the Student Database button in the Home page. (Result: The app directs the user to the Student Database page.)



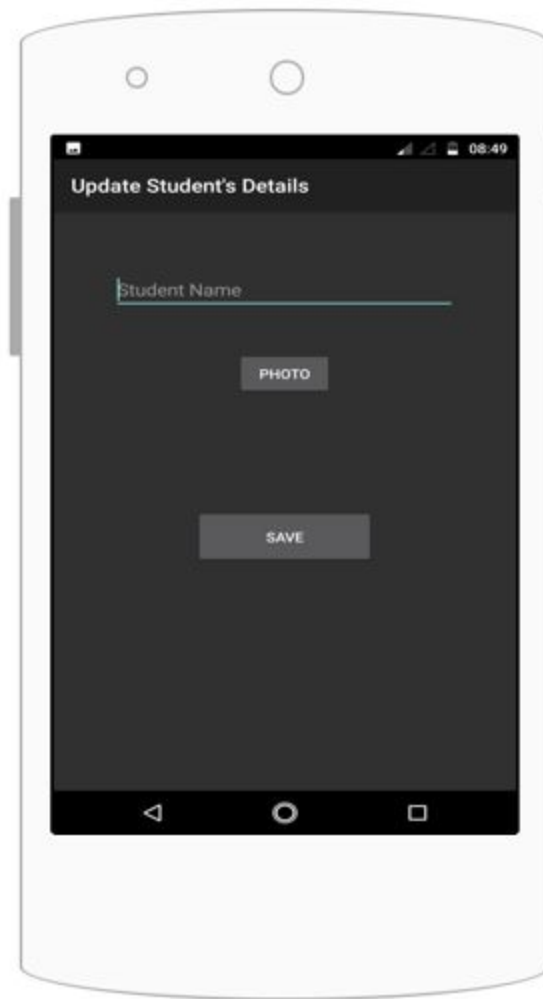
2. The user has to click on the Update Student button.
(Result: The app directs the user to the Update Student's Details page.)



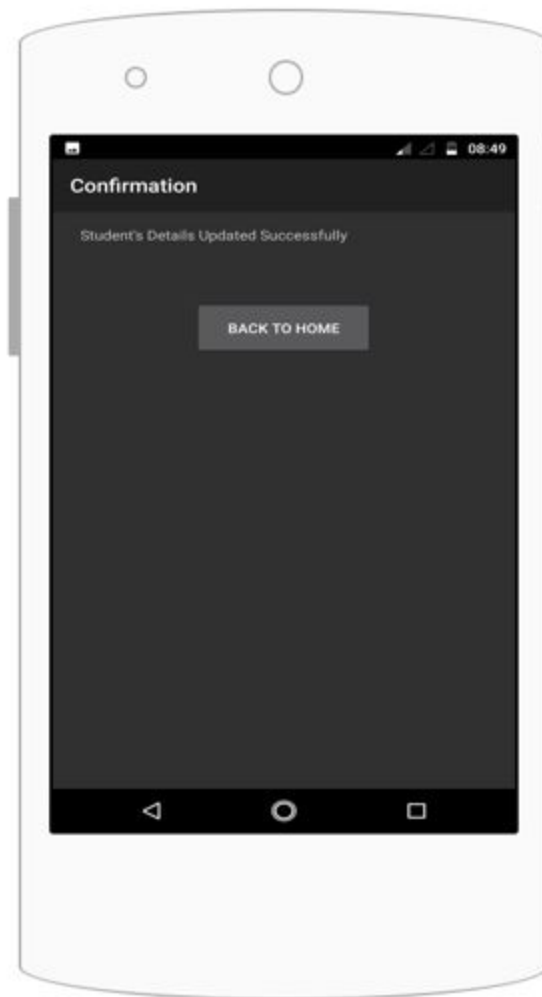
3. The user has to enter the roll number of the student.
4. The user has to click Next. (Result: The app asks the user for other details.)



5. The user has to fill in the name of the student and uploads his/her photos.
6. The user clicks on Save button. (Result: The student details and face images are updated in the database and the app shows a confirmation message.)

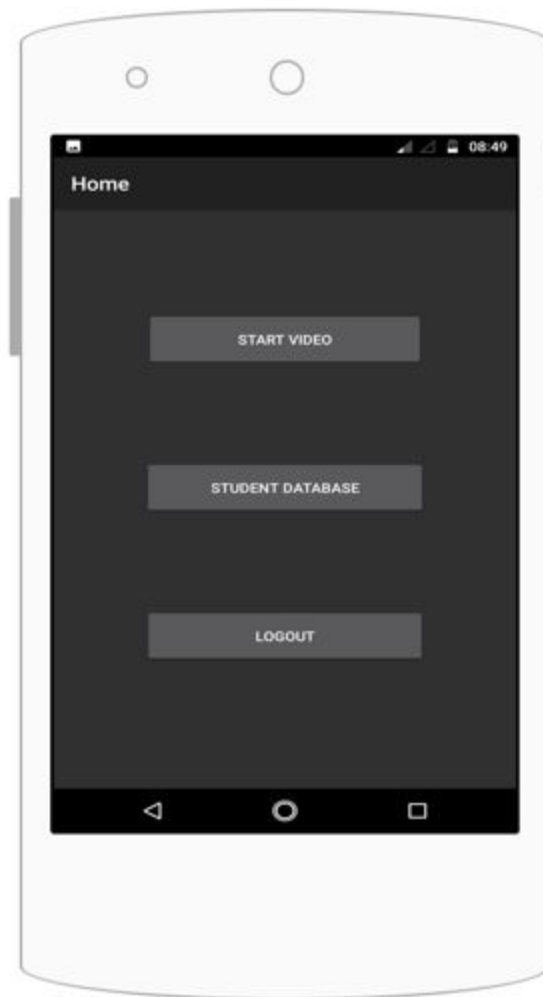


7. The user has to click on Back To Home button. (Result: The app directs the user back to the Home page.)

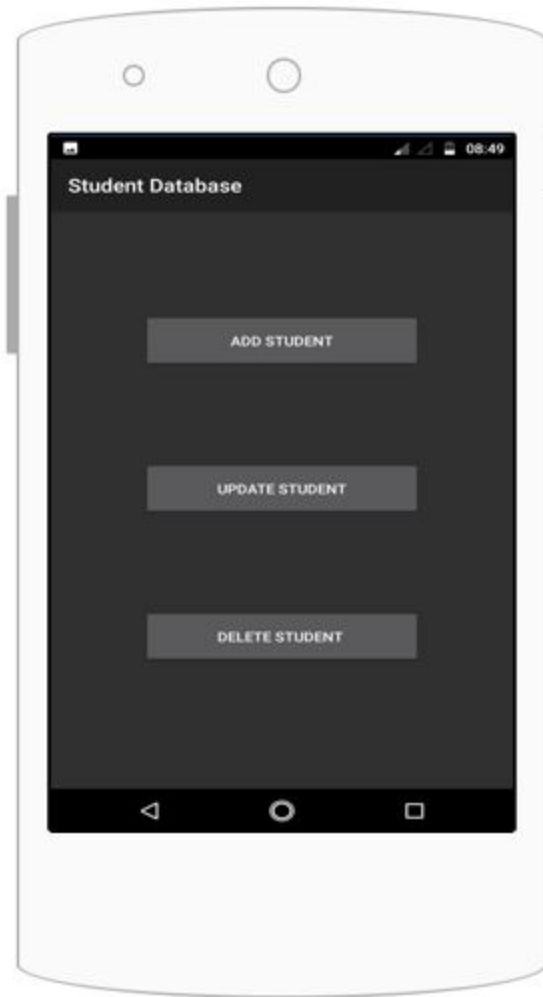


2.5 Delete a Student's Details:

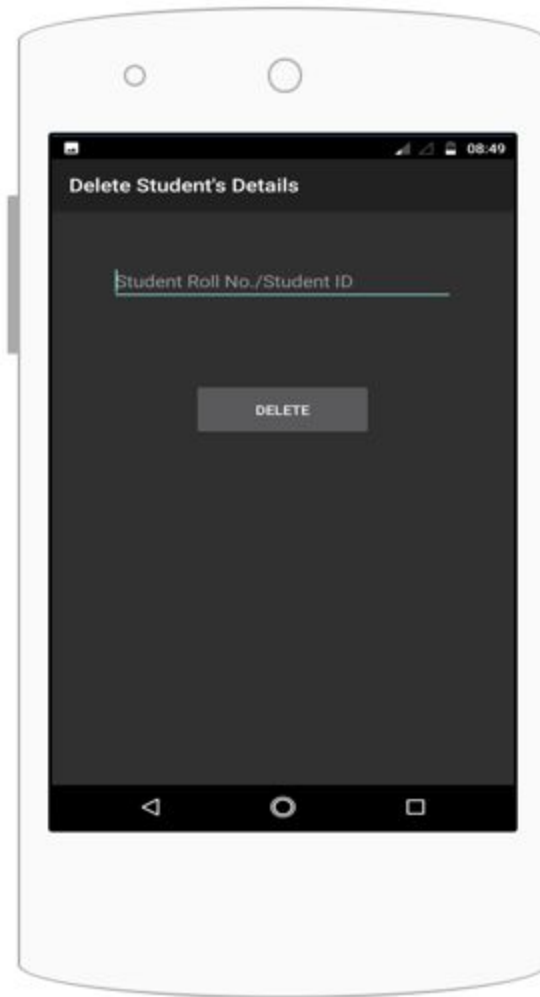
- Description: The user has to delete the details of a student and go back to the main screen.
- Action Sequence:
 1. The user has to click on the Student Database button in the Home page. (Result: The app directs the user to the Student Database page.)



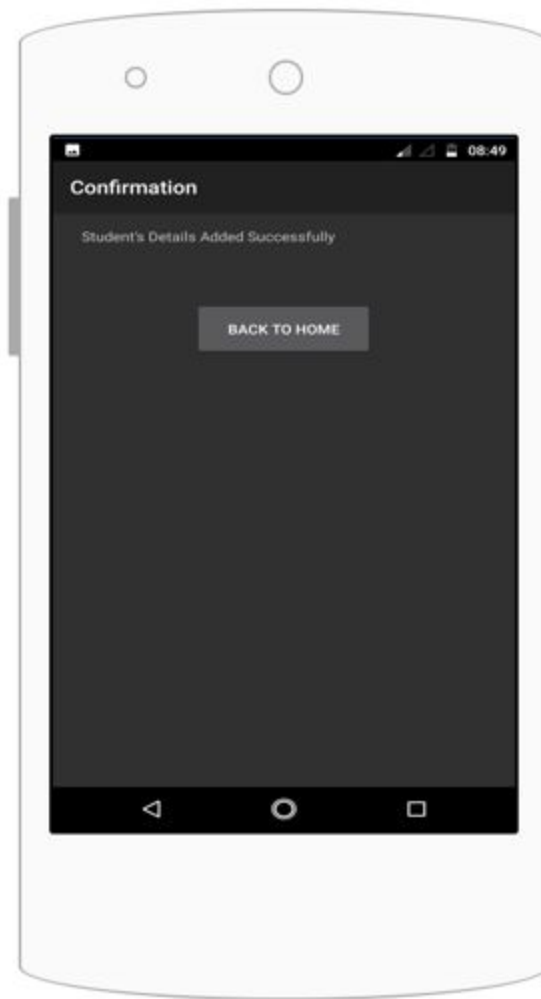
2. The user has to click on the Delete Student button.
(Result: The app directs the user to the Delete Student's Details page.)



3. The user has to enter the roll number of the student who's details has to be deleted.
4. The user has to click Delete. (Result: The database related to that student will be deleted and the app shows a confirmation message.)

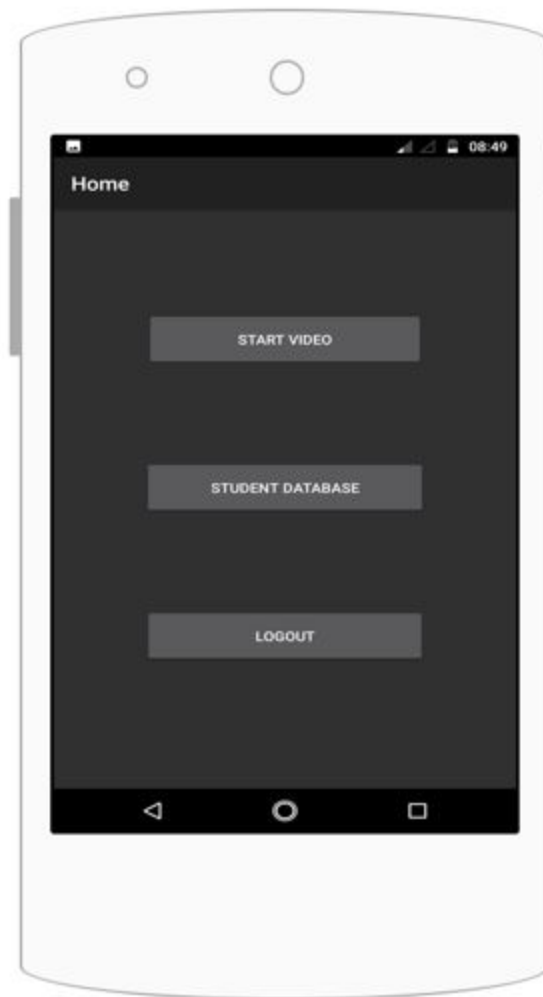


5. The user has to click Back To Home. (Result: The user will be directed to the Home page.)

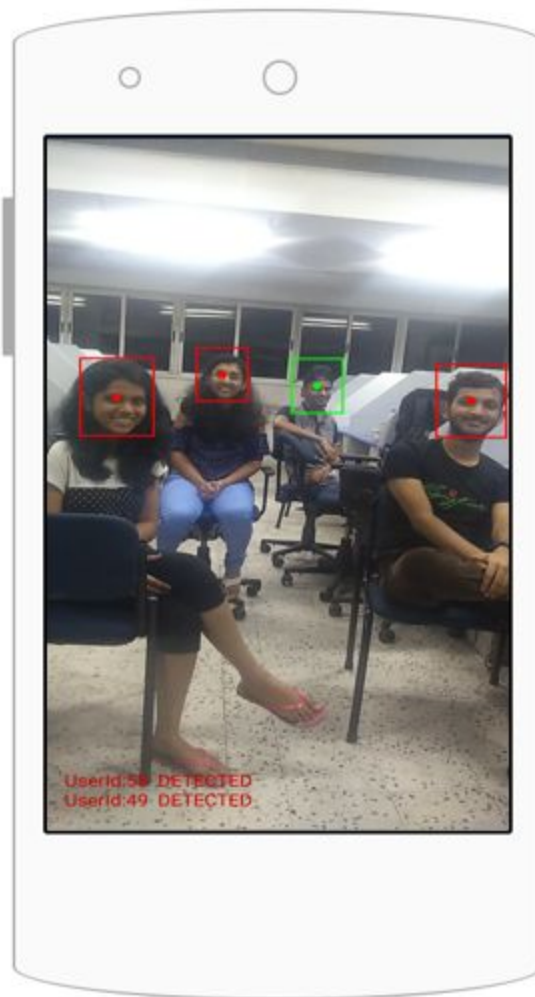


2.6 Start Camera View:

- Description: The user has to start the camera view where the result of coloured boxes around recognized faces can be seen.
- Action Sequence:
 1. The user has to click on the Start Video button on the Home page. (Result: The app directs the user to the camera view.)



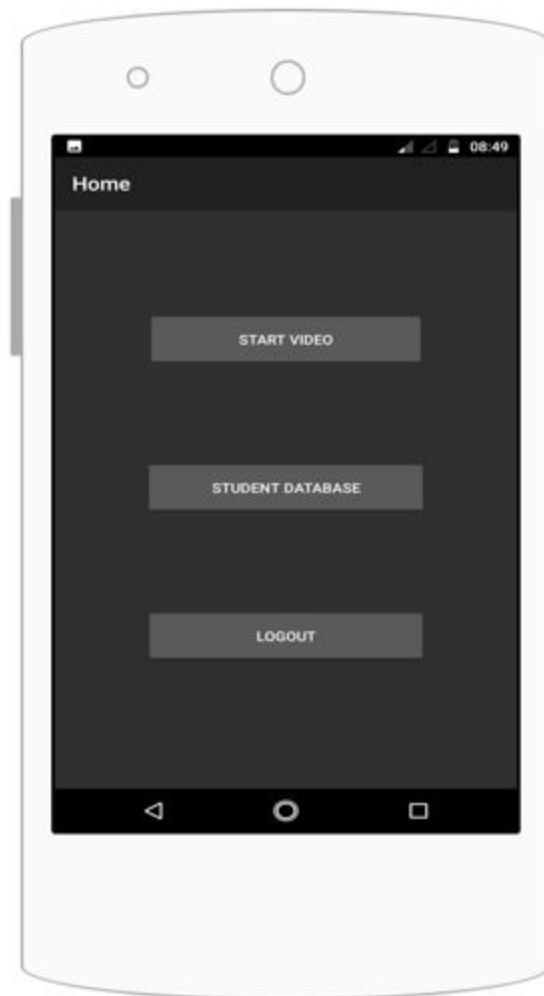
2. The user should roam around and move the phone to cover every student's face in the classroom. (Result: Colour coded boxes around the recognized faces of the students of the class can be seen in the camera view.)



2.7 Logout:

- Description: The user has to logout from his/her account.
- Action Sequence:
 1. The user has to press the back button of the smartphone when in the camera view. (Result: The user is directed to the Home page.)

2. The user has to click on Logout button on the HOME page. (Result: The user is logged out and the app directs the user to the Login page.)



Justification:

The tasks described above are representative tasks because the mentioned above tasks are all the tasks the app can perform. The tasks described are exhaustive.

Questionnaire:

Following 4 questions were used as questionnaire.

1. Will the user try to achieve the right action?
2. Will the user notice that the correct action is available?
3. Will the user associate the correct action with the effect that the user is trying to achieve?
4. If the correct action is performed, will the user see that progress is being made toward solution of the task?

2.8 Reports of individual team members:

Each of the 7 tasks were assigned to all 3 types of team members.

Task 1: Login

Description of the step	Did the user try to achieve the right action?	Did the user notice that the correct action is available?	Did the user associate the correct action with the effect that the user is trying to achieve?	If the correct action is performed did the user see that progress is being made towards	Remarks

				solution of the task?	
Novice	Yes	Yes	Yes	Yes	Good
Intermediate	Yes	Yes	Yes	Yes	Good
Expert	Yes	Yes	Yes	Yes	Good

Task 2: SignUp

Description of the step	Did the user try to achieve the right action?	Did the user notice that the correct action is available?	Did the user associate the correct action with the effect that the user is trying to achieve?	If the correct action is performed did the user see that progress is being made towards solution of the task?	Remarks
Novice	Yes	Yes	Yes	Yes	Good
Intermediate	Yes	Yes	Yes	Yes	Good
Expert	Yes	Yes	Yes	Yes	Good

Task 3: Add A New Student Details to Database

Description of the step	Did the user try to achieve the right action?	Did the user notice that the correct action is available?	Did the user associate the correct action with the effect that the user is trying to achieve?	If the correct action is performed did the user see that progress is being made towards solution of the task?	Remarks

Novice	Yes	No	No	Yes	Bad
Intermediate	Yes	Yes	Yes	Yes	Good
Expert	Yes	Yes	Yes	Yes	Good

Task 4: Edit A Student's Database

Description of the step	Did the user try to achieve the right action?	Did the user notice that the correct action is available?	Did the user associate the correct action with the effect that the user is trying to achieve?	If the correct action is performed did the user see that progress is being made towards solution of the task?	Remarks
Novice	Yes	No	No	No	Bad
Intermediate	Yes	Yes	Yes	No	Average
Expert	Yes	Yes	Yes	Yes	Good

Task 5: Delete A Student From Database

Description of the step	Did the user try to achieve the right action?	Did the user notice that the correct action is available?	Did the user associate the correct action with the effect that the user is trying to achieve?	If the correct action is performed did the user see that progress is being made towards solution of the task?	Remarks
Novice	Yes	No	No	Yes	Bad

Intermediate	Yes	Yes	Yes	Yes	Good
Expert	Yes	Yes	Yes	Yes	Good

Task 6: Start Camera View:

Description of the step	Did the user try to achieve the right action?	Did the user notice that the correct action is available?	Did the user associate the correct action with the effect that the user is trying to achieve?	If the correct action is performed did the user see that progress is being made towards solution of the task?	Remarks
Novice	Yes	No	No	Yes	Bad
Intermediate	Yes	Yes	Yes	Yes	Good
Expert	Yes	Yes	Yes	Yes	Good

Task 7: Logout

Description of the step	Did the user try to achieve the right action?	Did the user notice that the correct action is available?	Did the user associate the correct action with the effect that the user is trying to achieve?	If the correct action is performed did the user see that progress is being made towards solution of the task?	Remarks
Novice	Yes	No	No	No	Bad
Intermediate	Yes	No	No	Yes	Bad
Expert	Yes	Yes	Yes	Yes	Good

3. Conclusions and recommendations:

- Closing camera view functionality should be improved by adding a proper close button in the camera view.
- Instructions for every task should be given by adding a help menu.
- Navigation between different options should be improved.
- App interface should be improved to be more user-friendly.