

Project Documentation

CS101

Autumn 2014

Documentation Stage2

Group 2 :

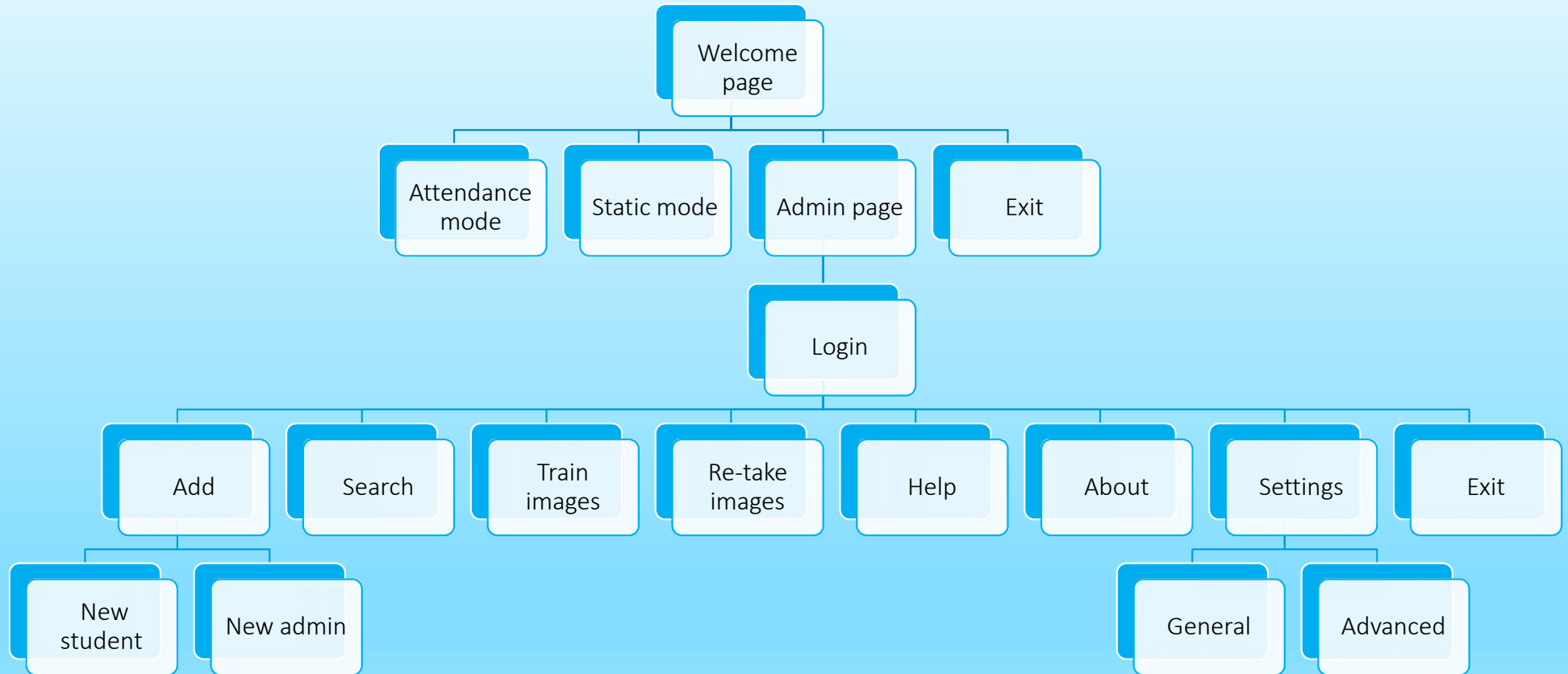
Keshav Srinivasan (140260001)

Kshitij Bajaj (140100116)

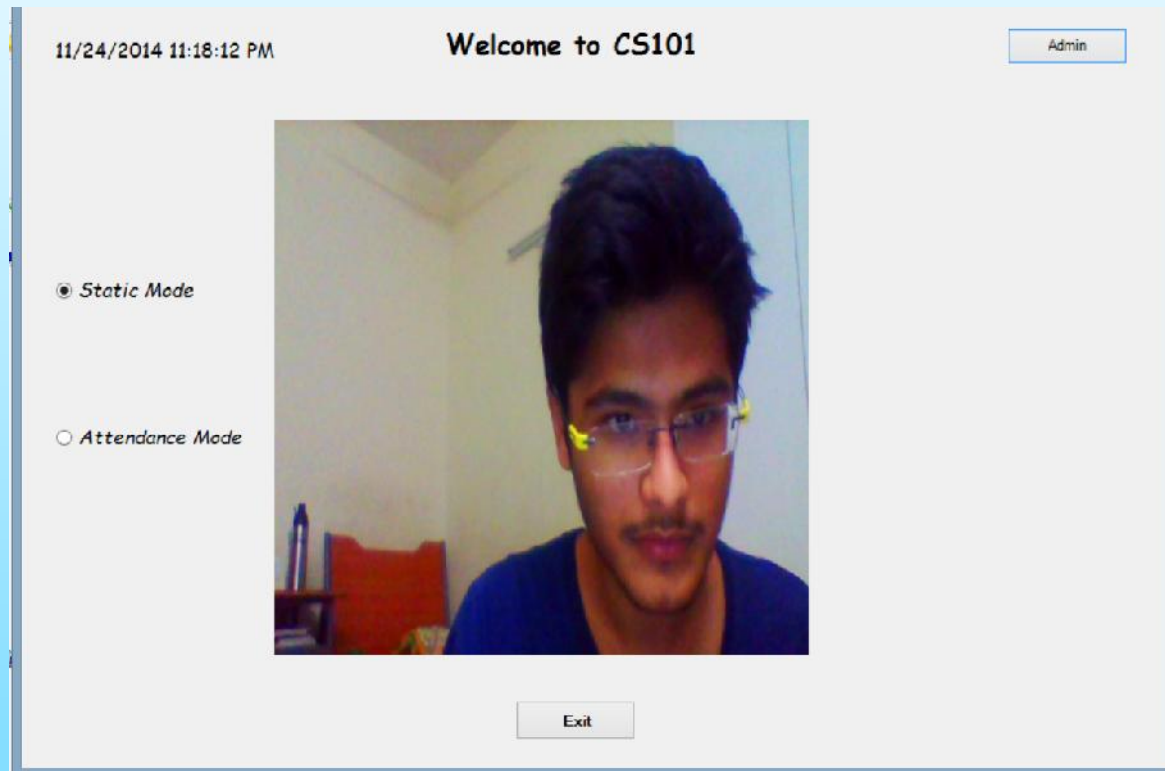
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User Interface

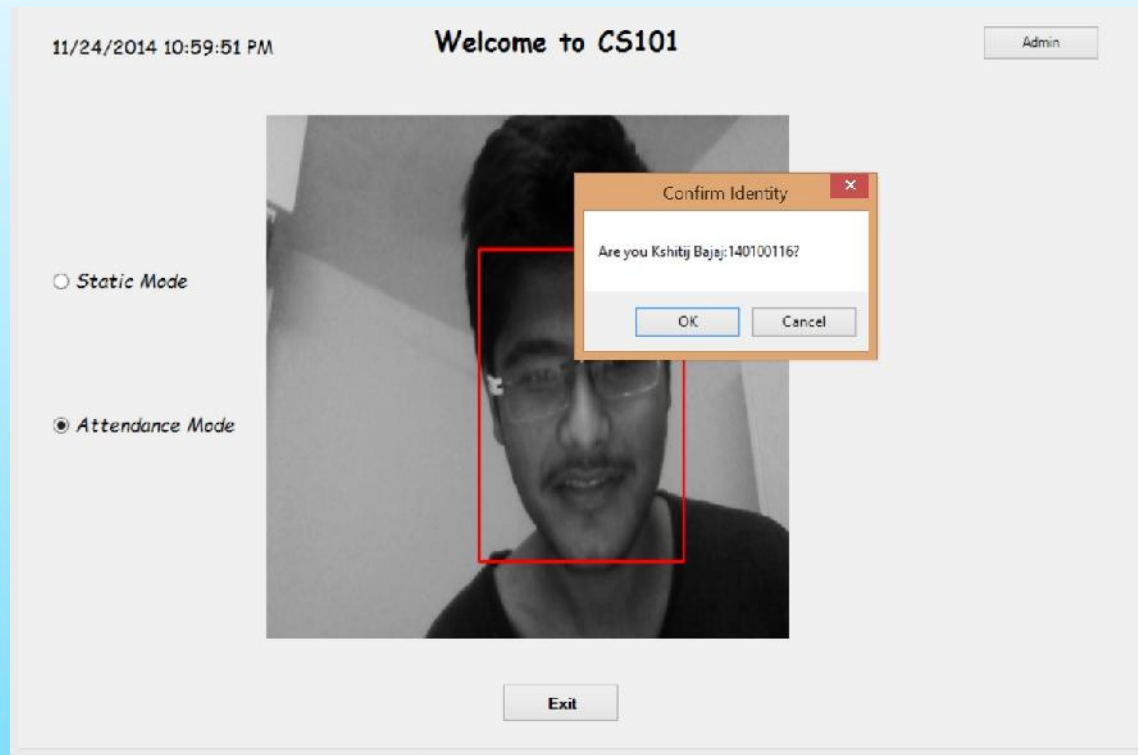


Welcome Page



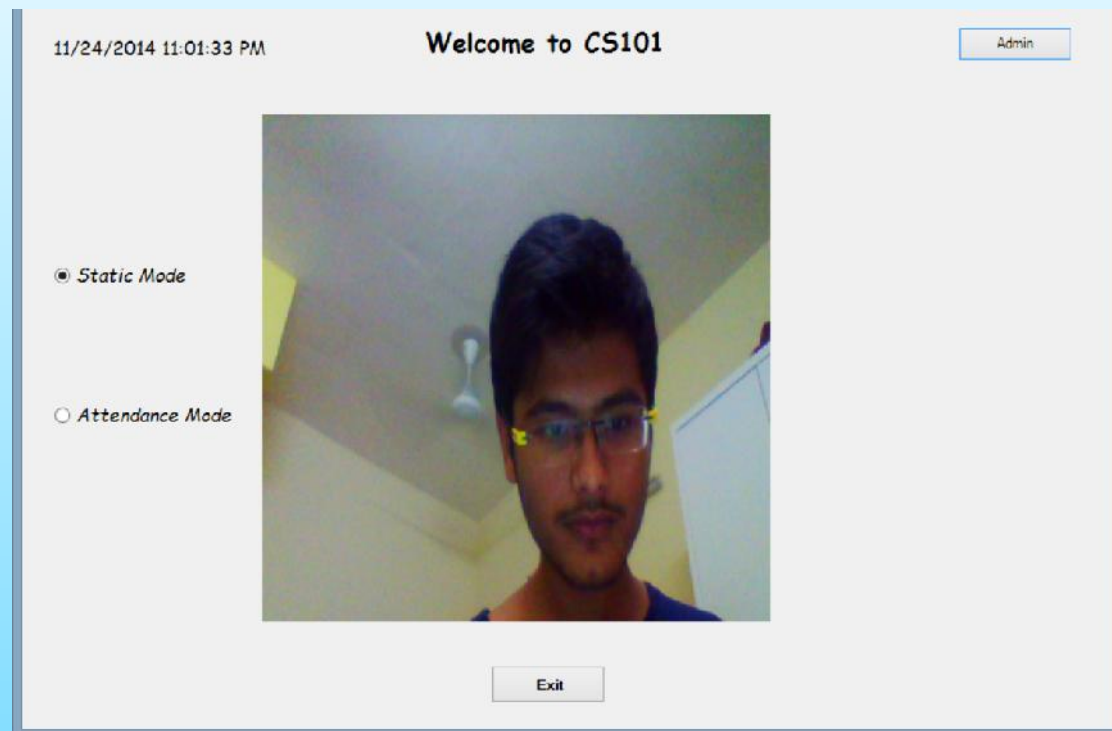
The welcome page include a live video feed through the webcam with two radio button namely, static mode(default) and attendance mode . It also shows the current date and time along with an Admin button and an exit button. This forum is named video attendance and this the face of the program accessible to the students to mark their attendance .

Attendance Mode



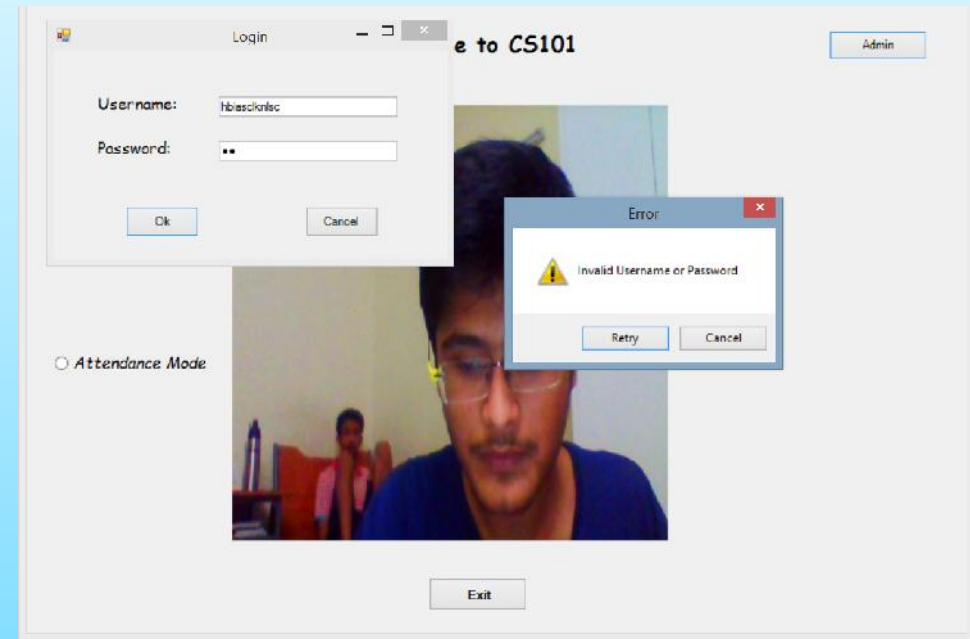
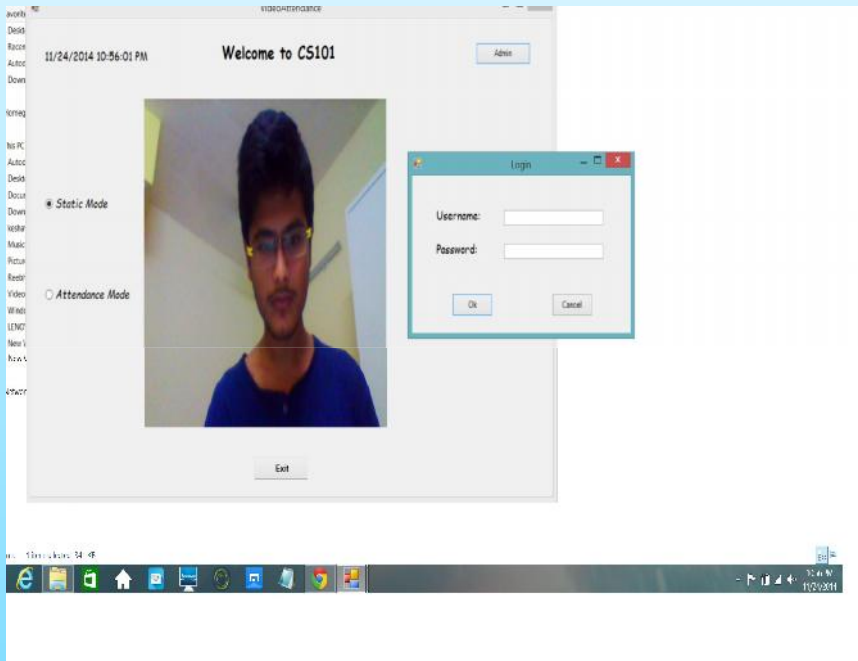
This mode can be switched to by clicking on the radio button on the welcome page . This mode basically turns the RGB mode to Grey scale mode (coloured video feed to black and white) to capture the images in greyscale. It detects the face of the person , crop the face and compares with the Database and marks the attendance.

Static Mode



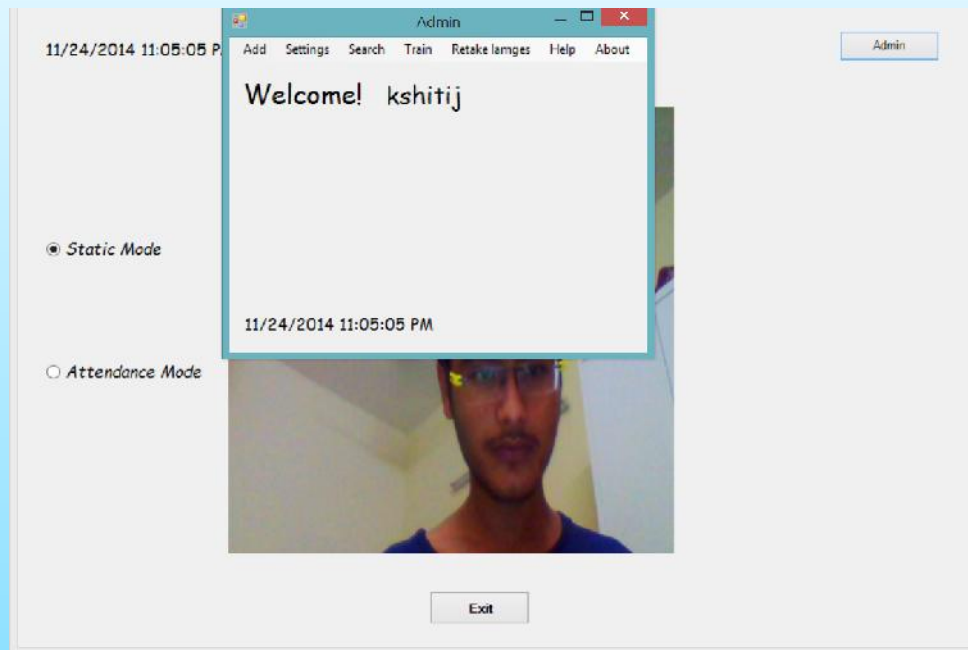
This mode is the default mode and just captures the video feed from the web cam and displays it on the welcome page on the picture box.

Login



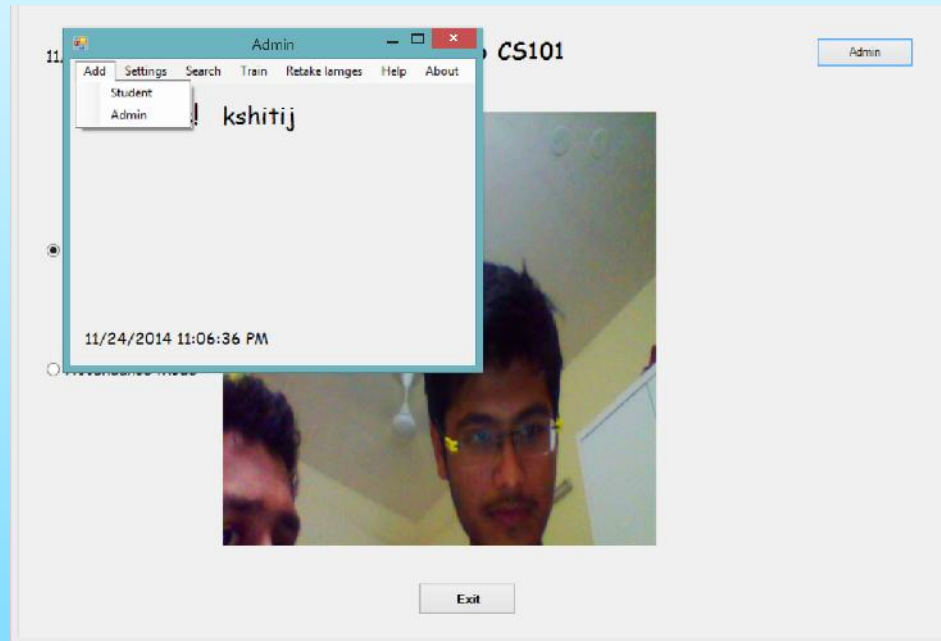
This form appears when we click on the admin button on the welcome page and it ensures security of the admin access level. It requires the user to enter a user name and a password and then the program checks if that person is registered as an admin or not and if the password corresponding to that user name is correct or not and according to the access level of the admin It opens up an admin forum which can edit to the database of both students and admin.

Admin Page



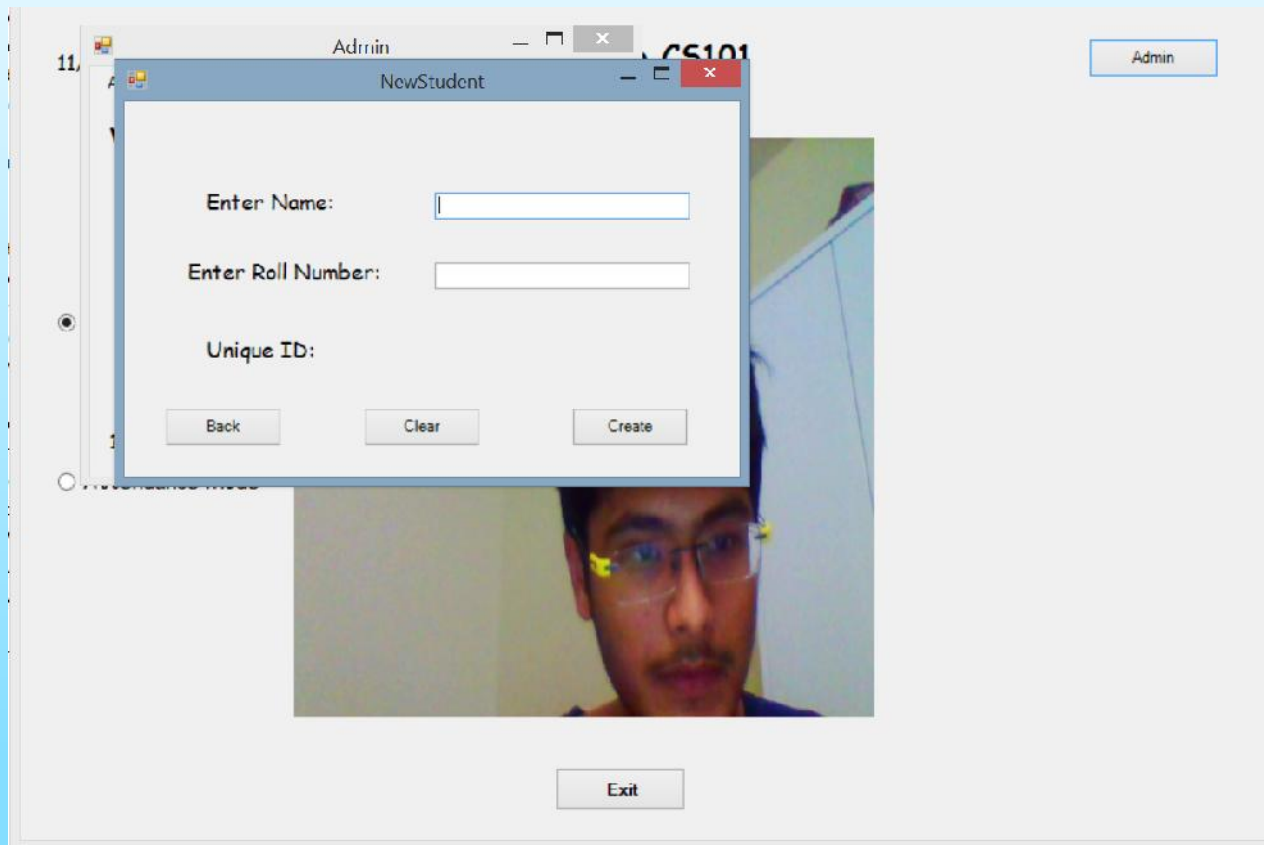
The admin page welcomes the admin to an higher level user interface where he/she can change, or modify The admin and student database . It has several menu lists like add , settings , train etc. which can be highly useful in managing data files and making this program flexible to admin users also.

Add



This menu list includes two options namely new student and new admin.

New Student



The screenshot shows a web application interface for an administrator. At the top, there's a header bar with the text "Admin" on the left and a button labeled "Admin" on the right. Below the header, a modal window titled "NewStudent" is open. This modal contains three input fields: "Enter Name:", "Enter Roll Number:", and "Unique ID:". Below these fields are three buttons: "Back", "Clear", and "Create". In the background, behind the modal, there is a video feed showing a person's face. At the bottom center of the main application window, there is an "Exit" button.

This form opens when we click the new student option under the add menu ,this enables the admin to add new students to the Data base and takes a minimum number of photos to train the program to take attendance through the video feed.

New Admin

The screenshot shows a web application interface with a main window titled 'Admin' and a sub-window titled 'MyForm'. The 'Admin' window has a menu bar with options: Add, Settings, Search, Train, Retake Images, Help, and About. The 'MyForm' window is a modal dialog box with the following fields and buttons:

- Enter Username:
- Enter Password:
- Re-enter Password:
- Clear button
- Create button

The background of the 'Admin' window shows a video feed of a person wearing a blue shirt and a yellow earplug. The video feed is partially obscured by the 'MyForm' dialog box. The 'Admin' window also has an 'Exit' button at the bottom center.

This enables an admin of higher access level to modify database of admins and add new admins of lower/same access level who in turn can add more students to the database . In this the admin has to type the user name and password to register themselves.

Search

11. Admin

Search

Search

For Admin:

☒ By Name

For Students:

☐ By Name

☐ By Roll Number

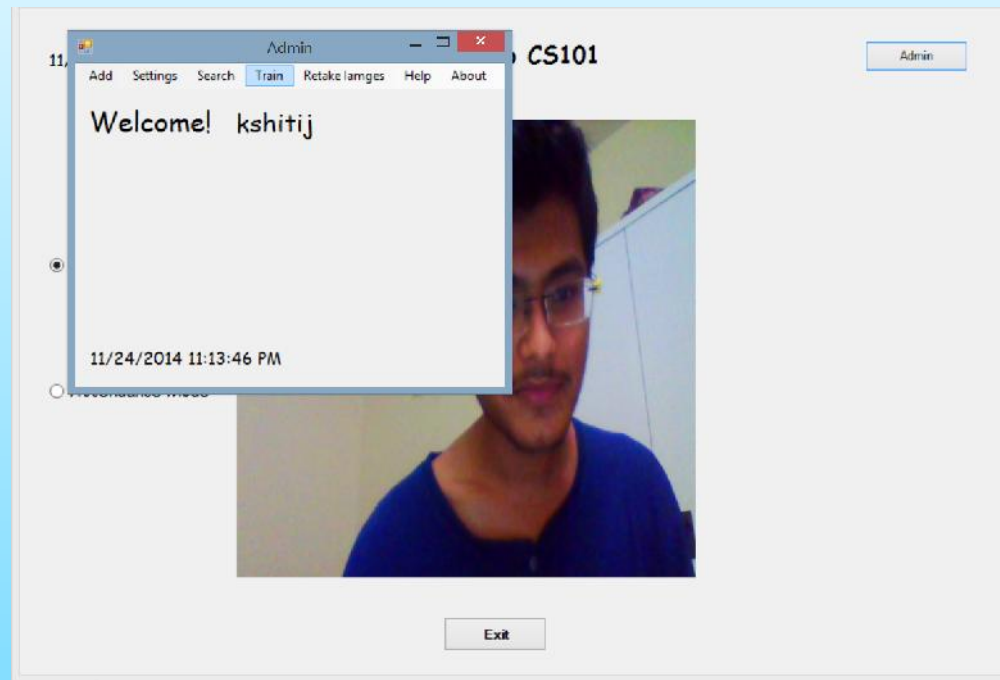
☐ By Unique Code

Back Clear

Exit

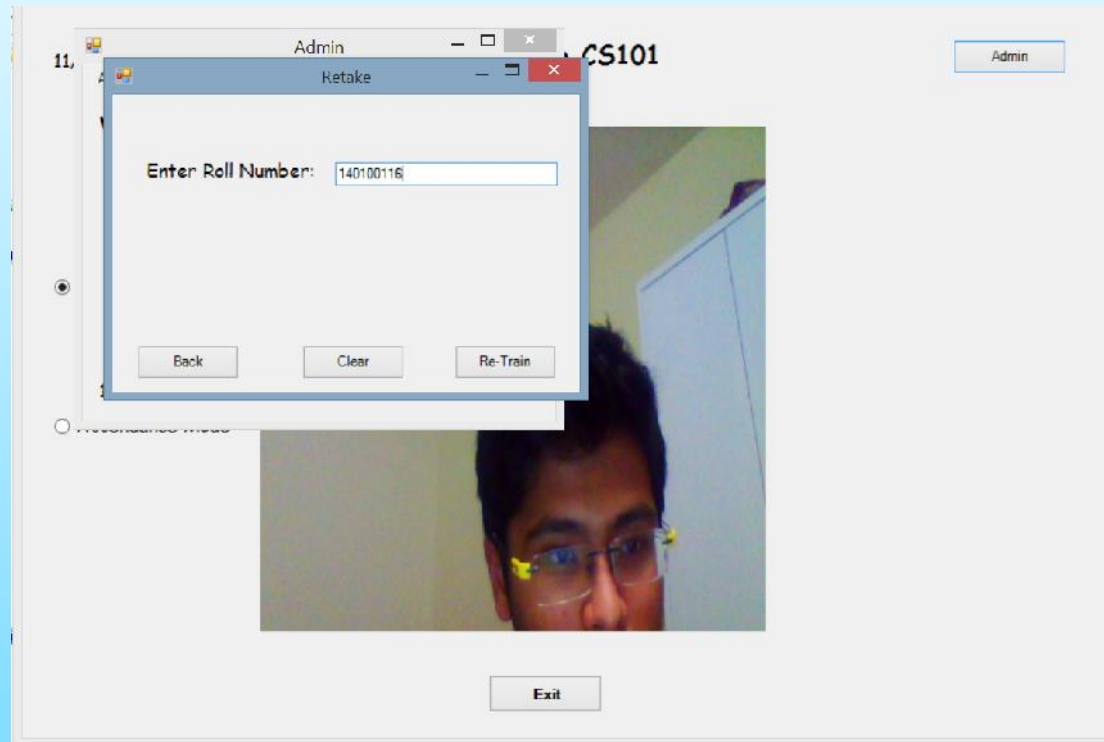
The search option in the admin page opens a search form in which we can search in the admin database and student database By username in case of both admin and students and also by roll number and a unique ID.

Train Images



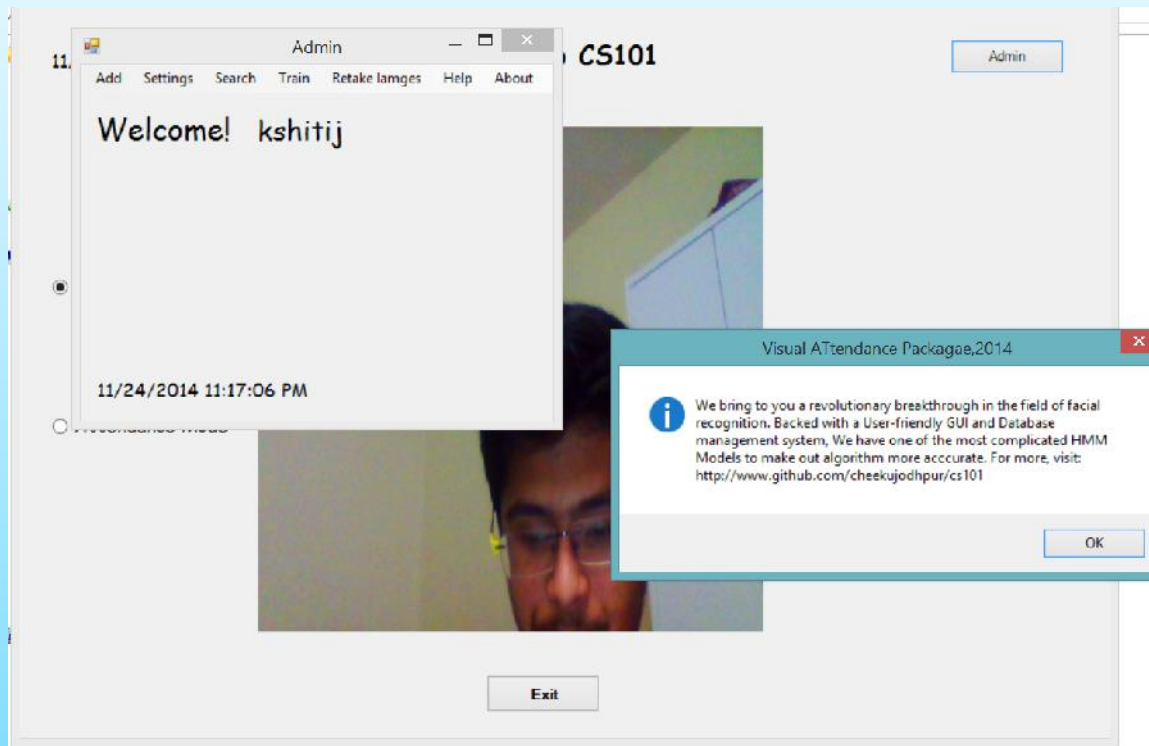
This option allows the admin to train the program to associate the photos to the appropriate student which can be used by the program to mark attendance of the respective student.

Re-take Images



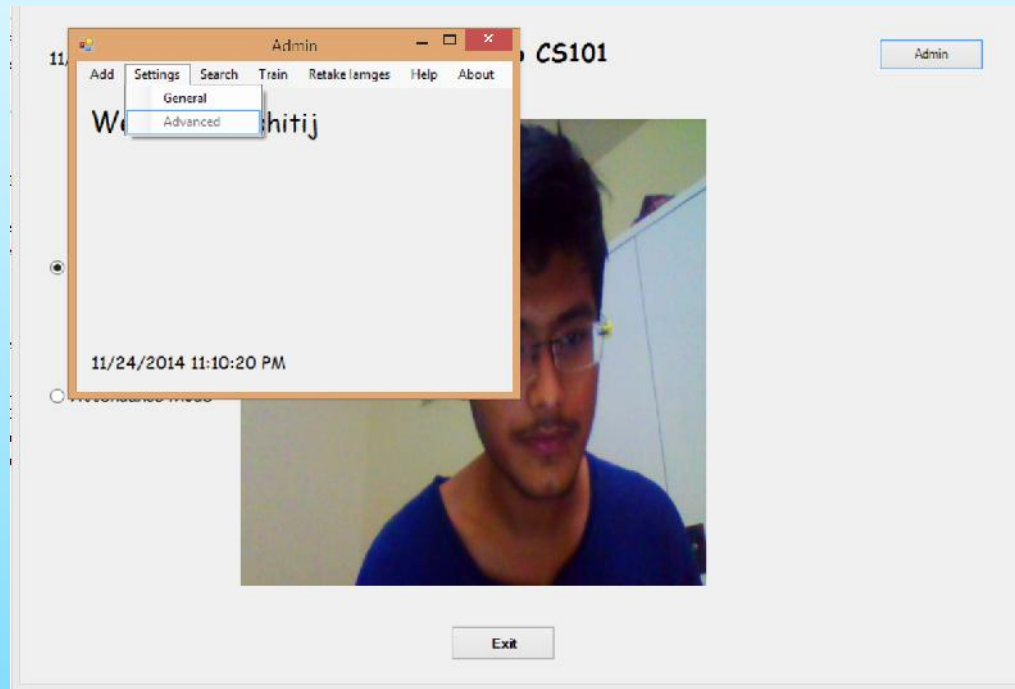
This option allows the admin to re-take the images of the particular student if there had been any error in taking the images while registering the students to the database.

About



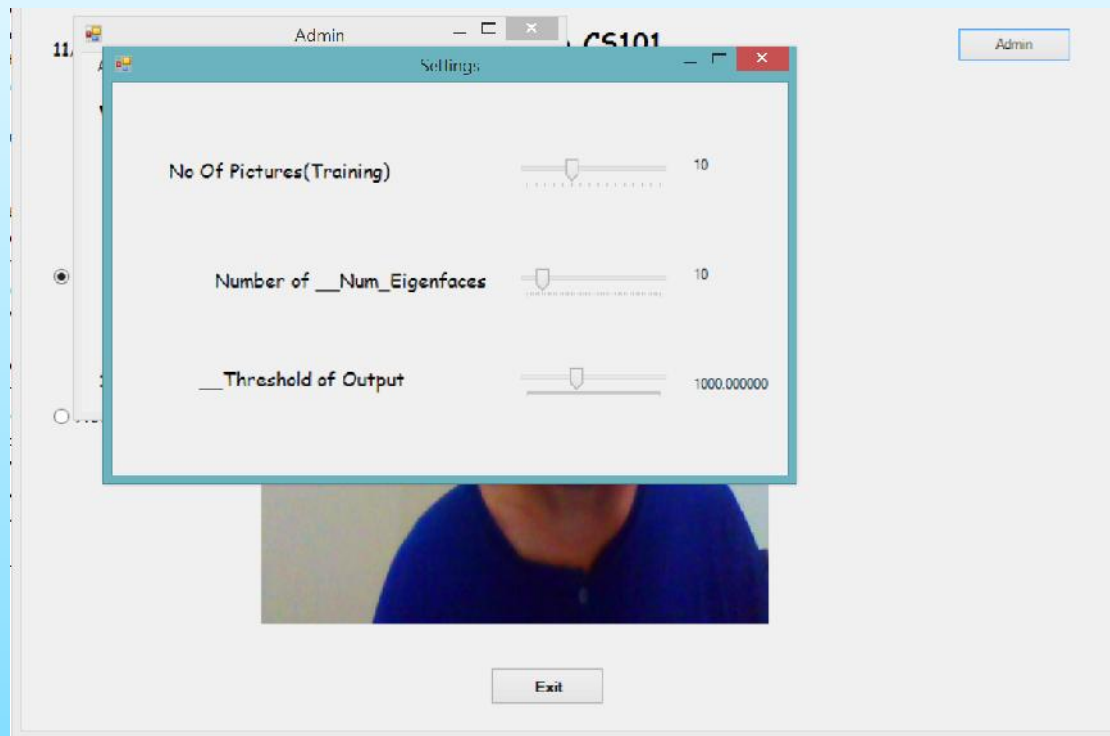
This option provides us the basic requirement, uses and applications of the software and various other information about the software.

Settings



This option allows us to change the settings of the software, the user has access to only general options.

General



The general option opens a general setting form which allows us to change the number of photos taken to train the program, It also has option to change brightness and accuracy of the video attendance, but they have been set default and locked to avoid any disturbance with the integrity of the program.