



ONLINE EXAMINATION PORTAL USER GUIDE

Team ID: 03

Team Members

1. Tushar Bhutada(170101073)
2. Mayank Baranwal (170101084)
3. Avneet Singh (170101015)
4. Nakka Sriharsha (170101040)
5. Sparsh Sinha (170101085)
6. Rythum Singla (170101058)
7. Pranay Garg (170101047)
8. Aviral Gupta (170101014)
9. Aviral Gupta (170101014)

- 10.Kartik Gupta (170101030)
- 11.Anubhav Tyagi (170101009)
- 12.Rutvik Ghughal (170101057)
- 13.Shubham Kumar (170101064)
- 14.Ch. Rohith Ravi Prabhu Teja
(170101017)
- 15.Aranya Aryaman (170101011)
- 16.Chandra Prakash Meena
(160101023)

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1. INTRODUCTION

This software provides an examination environment and handles all related tasks.

This project includes:

- Login system secured by password
- Admin panel
- Making questions pool and generating random questions while taking test
- Switching to different questions as well as sections while attempting test
- Saving answers given by the candidate along with question
- Test evaluation and grade calculation
- Normalizing scores and generation of certificate
- And more...

2. HOME PAGE

This is the screen you land up on opening the application, where you will be choosing to

- **Signup (For New Users)**

Select whether you are a student or a professor.

- If you are a professor, Fill/Mark the following fields
 - **Username** (Remember this for future) - If username already exists, you won't be allowed to make a profile with that username as it is unique.
 - **Password**- Choose the password for your account. (Remember this to login later)
 - **Confirm Password**- Re-Enter your Password to confirm it. It must be same as earlier.
 - **Full Name** - Your Name and Surname with a space in between
 - **IITG Check Box**- If you are a member of IITG, check the box adjacent to it.
 - **Branch** - Select the Branch from the list of branches available.
 - **Email**- Your Email ID from a verified Email Provider

- **Phone No.** - Your personal contact number you want us to display (must be 10 digits)

Signup

Login Student Professor

Username
harsha

Password
•••••

Full Name
Sriharsha

Password Confirm
•••••

Email
harsha@gmail.com

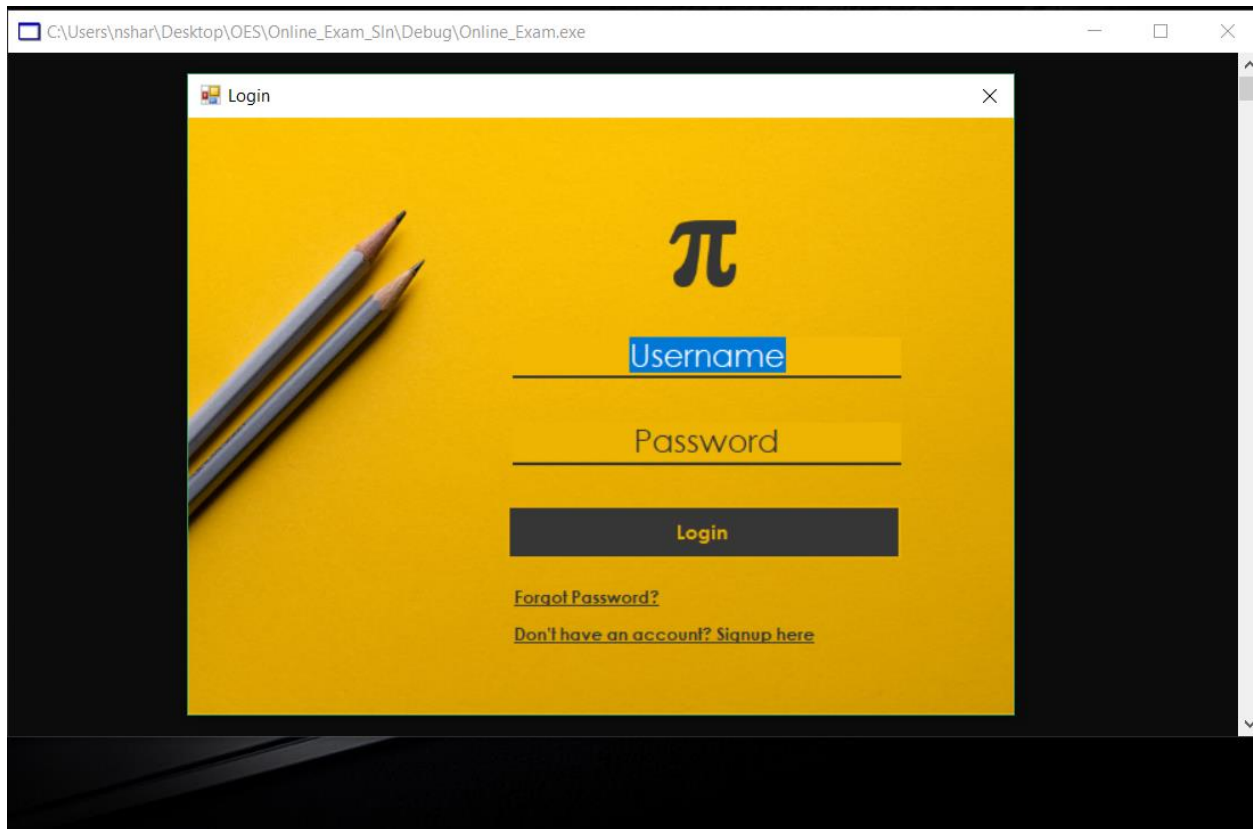
Branch
CSE

Phone Number
9876543210

☒ IITG Member

Submit

- If you are a student, you need to provide **Roll No.** along with the above details.
- **Login (For Existing Users)**
Under Login Form, we have two text fields, username & password.
 - If you are already a member, Enter your credentials. If the user is a professor, he is directed to the prof's profile page and similarly students will be directed to the student's profile page.



- If you are not a member, Click the hyperlink “Don’t have an account?”. After this click, you will be redirected to Signup Page.

3.STUDENT DASHBOARD

It also contains some buttons on left panel which helps him to configure his profile and examinations that are conducted and that he thinks to be conducted. The buttons are:

- **My Profile**

Here one can view their details like Username, Full name, Email ID, Phone Number, Department.

C:\Users\nshar\Desktop\OES\Online_Exam_Sln\Debug\Online_Exam.exe

π

My Profile

Edit Profile

Change Password

Upcoming Tests

Past Tests

Enroll to a Group

Unenroll me from a Group

Certificates

Log Out

Username

sai

Full Name

sai

Branch

CSE

Roll No.

170101040

Email

sai@sai.com

Phone Number

9876543210

IITG Student

Yes

- Edit Profile

By clicking this button one can edit their details (except Username, Branch, IITG-Checkbox, Roll Number (if student)) that are displayed in their profile.

C:\Users\nshar\Desktop\OES\Online_Exam_Sln\Debug\Online_Exam.exe

π

My Profile

Edit Profile

Change Password

Upcoming Tests

Past Tests

Enroll to a Group

Unenroll me from a Group

Certificates

Log Out

Full Name

sai

Roll No.

170101040

Phone Number

9876543210

Email

sai@sai.com

Username

sai

Branch

CSE

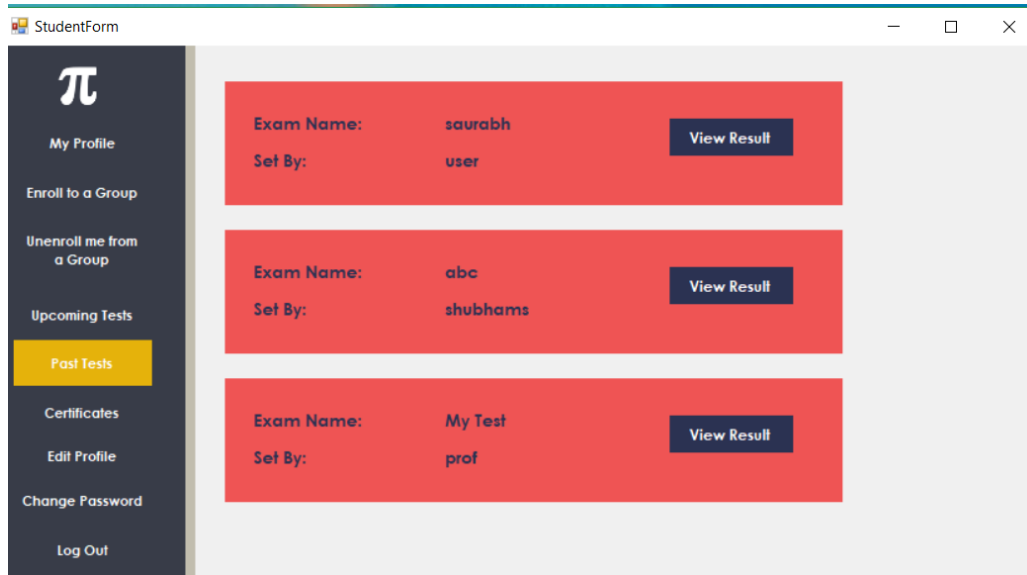
IITG Student

Yes

UPDATE

- **Past Tests**

This displays the tests given by them in the past along with some basic information about the exam.



He can also view result of a particular exam.

(Refer 8.Test Analysis for its preview.)

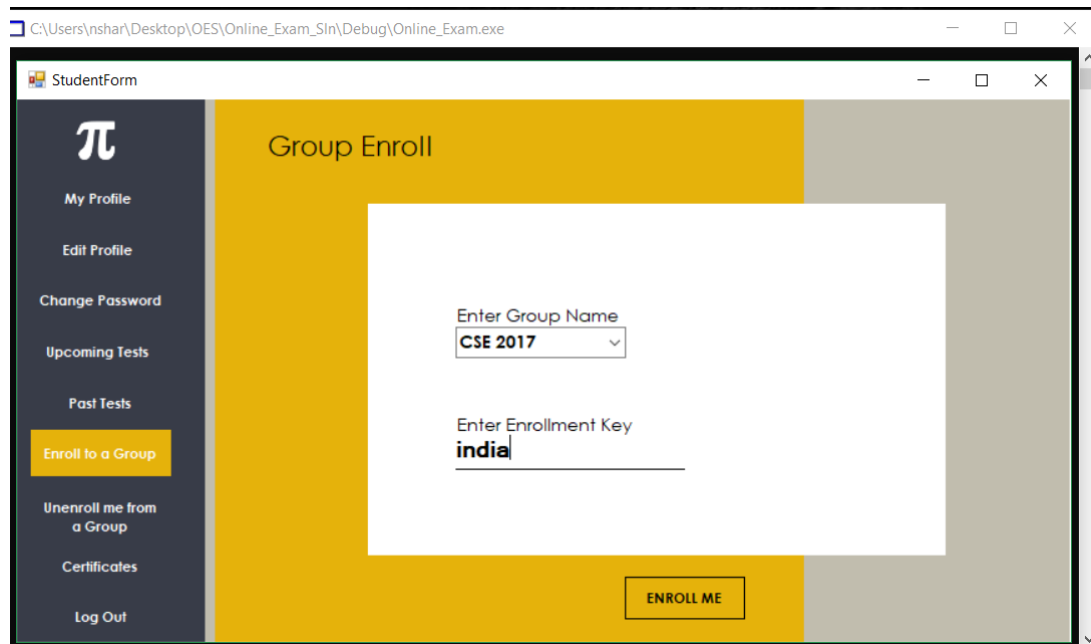
- **Upcoming tests**

Student can view the exams that he can appear in future, created by professors for groups he is enrolled in.



- **Enroll to a group**

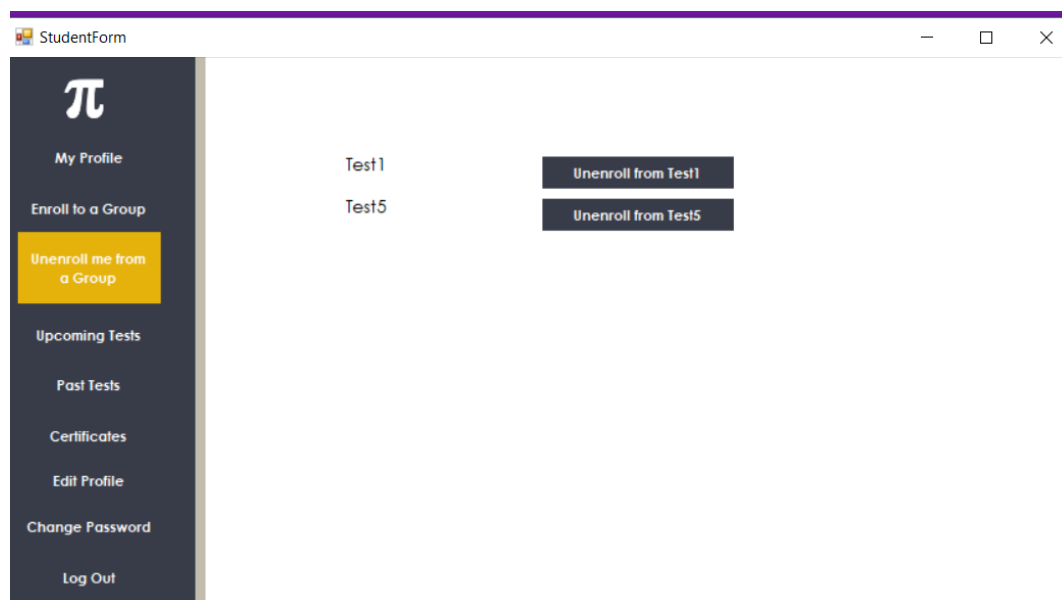
Through this button student can join a group created by professor. Some groups don't require an enrollment key while some demands one. If one is required student need to enter one.



The screenshot shows a web application window titled "StudentForm". The left sidebar contains a navigation menu with the following items: "My Profile", "Edit Profile", "Change Password", "Upcoming Tests", "Past Tests", "Enroll to a Group" (highlighted in yellow), "Unenroll me from a Group", "Certificates", and "Log Out". The main content area has a yellow header with the text "Group Enroll". Below this, there is a white form box with two input fields: "Enter Group Name" with a dropdown menu showing "CSE 2017", and "Enter Enrollment Key" with the text "india" entered. At the bottom right of the form box is a yellow button labeled "ENROLL ME".

- **Un-enroll from a group**

By this student can leave any of the groups he is enrolled in.



The screenshot shows the same "StudentForm" application window. The left sidebar is identical to the previous screenshot, but the "Unenroll me from a Group" button is now highlighted in yellow. The main content area is white and displays two rows of information. The first row shows "Test1" followed by a dark blue button labeled "Unenroll from Test1". The second row shows "Test5" followed by a dark blue button labeled "Unenroll from Test5".

- [Certificates](#)

Student can view and print the certificates of the exams he/she has passed.



Certificate of Completion

This award certifies that

has successfully completed

With a grade of


Signature

Indian Institute of Technology Guwahati,
Guwahati, Assam
Institute

Date

- [Logout](#)

This logs out them out of their current session.

4.PROFESSOR DASHBOARD

It also contains some buttons on left panel which helps him to configure his profile and examinations that are conducted and that he thinks to be conducted.

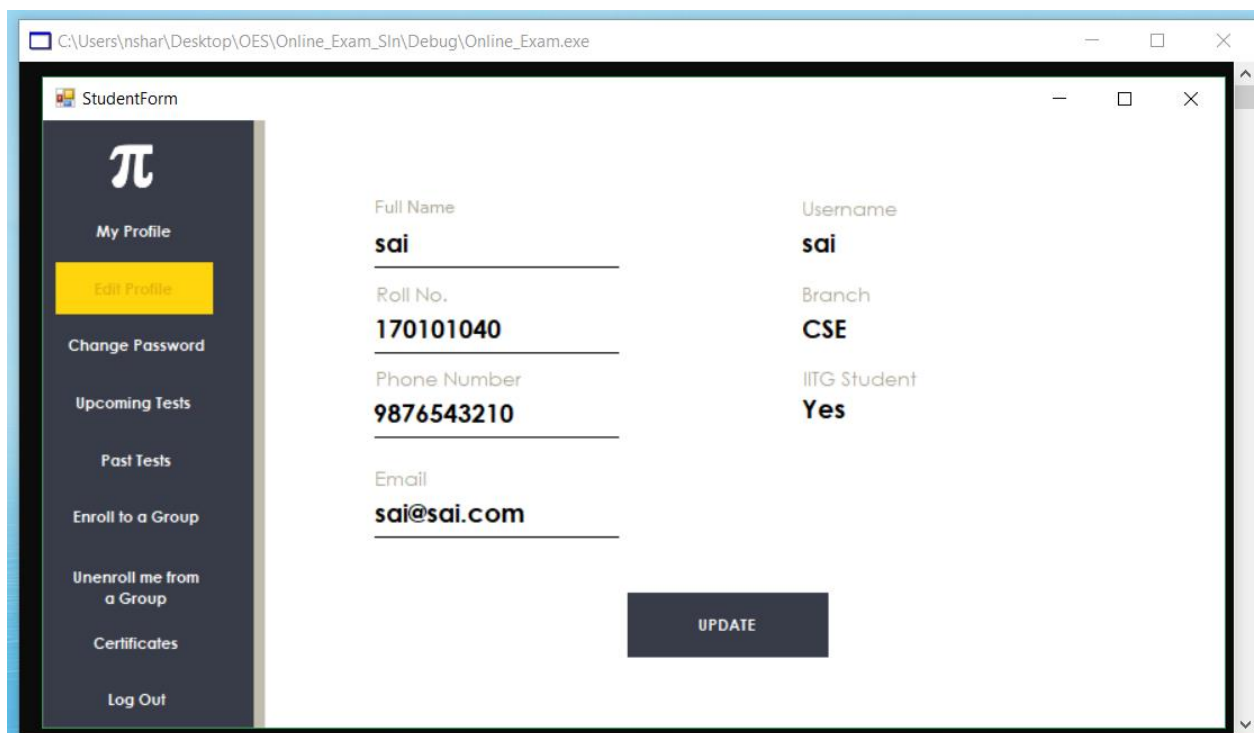
The buttons are:

- **My Profile**

Here one can view their details like Username, Full name, Email ID, Phone Number, Department.

- **Edit Profile**

By clicking this button one can edit their details that are displayed in their profile

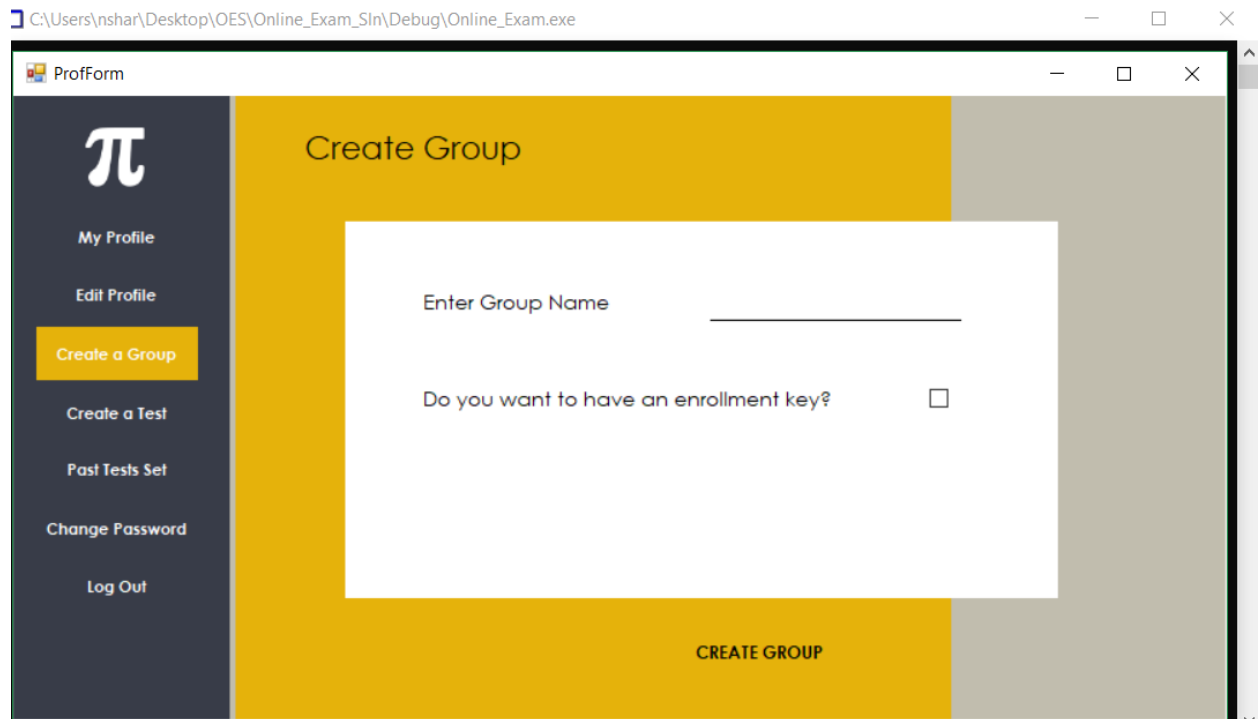


The screenshot shows a web application window titled "StudentForm". The window has a dark sidebar on the left with a white pi symbol at the top. Below the symbol are several menu items: "My Profile", "Edit Profile" (highlighted in yellow), "Change Password", "Upcoming Tests", "Past Tests", "Enroll to a Group", "Unenroll me from a Group", "Certificates", and "Log Out". The main content area is white and displays the user's profile information in two columns. The left column contains "Full Name" (sai), "Roll No." (170101040), "Phone Number" (9876543210), and "Email" (sai@sai.com). The right column contains "Username" (sai), "Branch" (CSE), and "IITG Student" (Yes). At the bottom right of the main content area is a dark blue button labeled "UPDATE".

Field	Value
Full Name	sai
Roll No.	170101040
Phone Number	9876543210
Email	sai@sai.com
Username	sai
Branch	CSE
IITG Student	Yes

- **Create a Group**

This button enables one to create a group of users if he wants to be particular on the students who will be able to write the tests created. He can provide students an enrolment key which has to be entered while joining the group which will be cross-checked with the one given by professor.



The screenshot shows a web application window titled 'ProfForm'. The interface has a dark blue sidebar on the left with a white pi symbol at the top. Below the symbol are links: 'My Profile', 'Edit Profile', 'Create a Group' (highlighted in yellow), 'Create a Test', 'Past Tests Set', 'Change Password', and 'Log Out'. The main content area has a yellow header with the text 'Create Group'. In the center, there is a white form box with the following elements: a label 'Enter Group Name' followed by a text input field, a label 'Do you want to have an enrollment key?' followed by an unchecked checkbox, and a yellow button labeled 'CREATE GROUP' at the bottom right.

- **Create a test**

Through this one can create a new test. Details required to create one are:

- Test name
- Number of sections in the examination
- Weightage of marks for each section
- Number of questions in each section
- Pass percentage of the exam
- Groups that can appear for the examination
- Time slots in which the students can appear for the exam

C:\Users\nshar\Desktop\OES\Online_Exam_Sln\Debug\Online_Exam.exe

ProfForm

π

My Profile

Edit Profile

Create a Group

Create a Test

Past Tests Set

Change Password

Log Out

Enter Exam Details

Test Name: mat	Number of Sections: 3	Unselected Groups: Test1 Test3 MnC 2017	Selected Groups: Test2 CSE 2017
Section Weightage (Hyphen Separated): 10-20-10	Pass Percentage: 35		
No. of Questions per Section (Hyphen Separated): 30-10-4		Number of Sessions 3	
No. of Questions Asked per Section (Hyphen Separated): 10-4-1		Exam Length (minutes): 90	
Start Time of Sessions: 2019-04-03 02:01		1	Add Slot

Add Questions

- **Add Questions:** While adding questions select the section, question number, type the question and choose the type of question (Multiple Choice Question / True-False / One Word) give correct answer and wrong options (for MCQ) then click Save and then Next. After adding all questions click Done.

ProfForm

π

My Profile

Edit Profile

Create a Group

Create a Test

Past Tests Set

Change Password

Log Out

Enter Exam Details

AddQues

Section **2**

Question No **1** Total Question in this section - 1

IS 2*2=4 ?

Answers

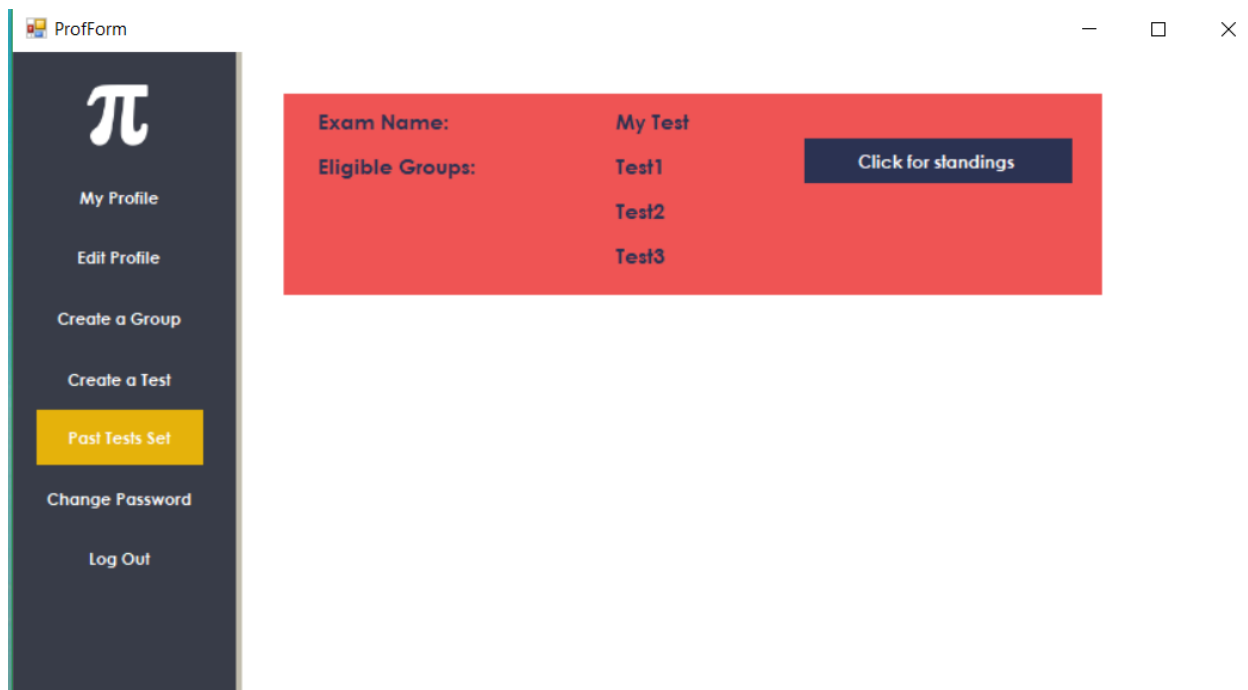
MCQ True/False One Word

☒ True ☐ False

Force Save **Next** **Done**

- **Past Test Sets**

This displays the tests created by them in the past along with some basic information about the exam like groups that were eligible to write it. They can also view the standings of students in it.



- **Logout**

This logs out them out of their current session.

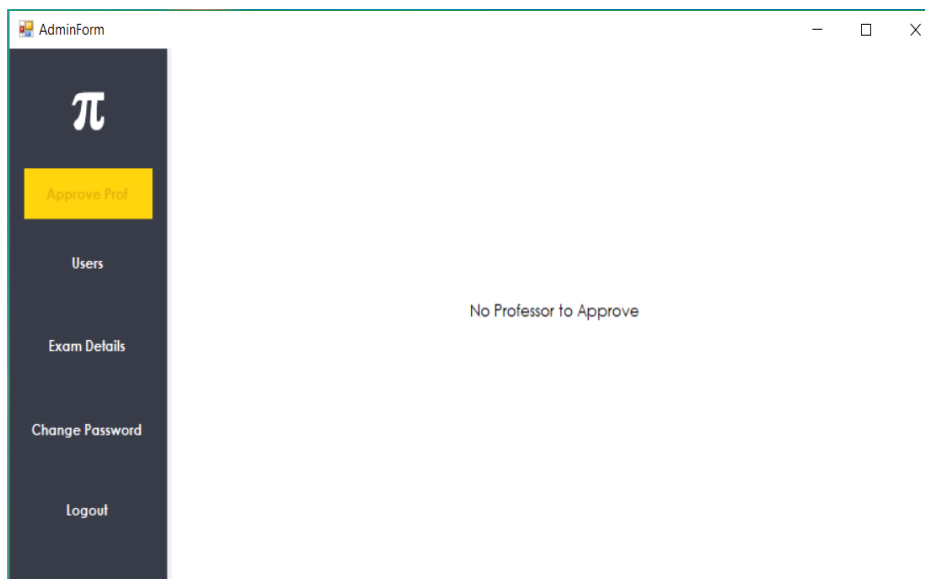
5.ADMIN DASHBOARD

Admin is most privileged when it comes to managing the system.

Admin can:

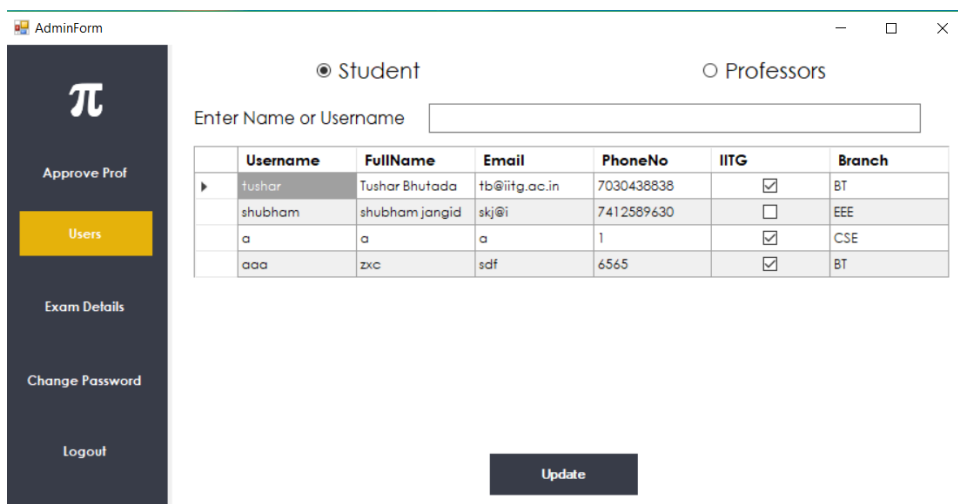
- **Approve Professors**

When a professor signs up his details are sent to Admin, who cross checks details provided and approves him/her.



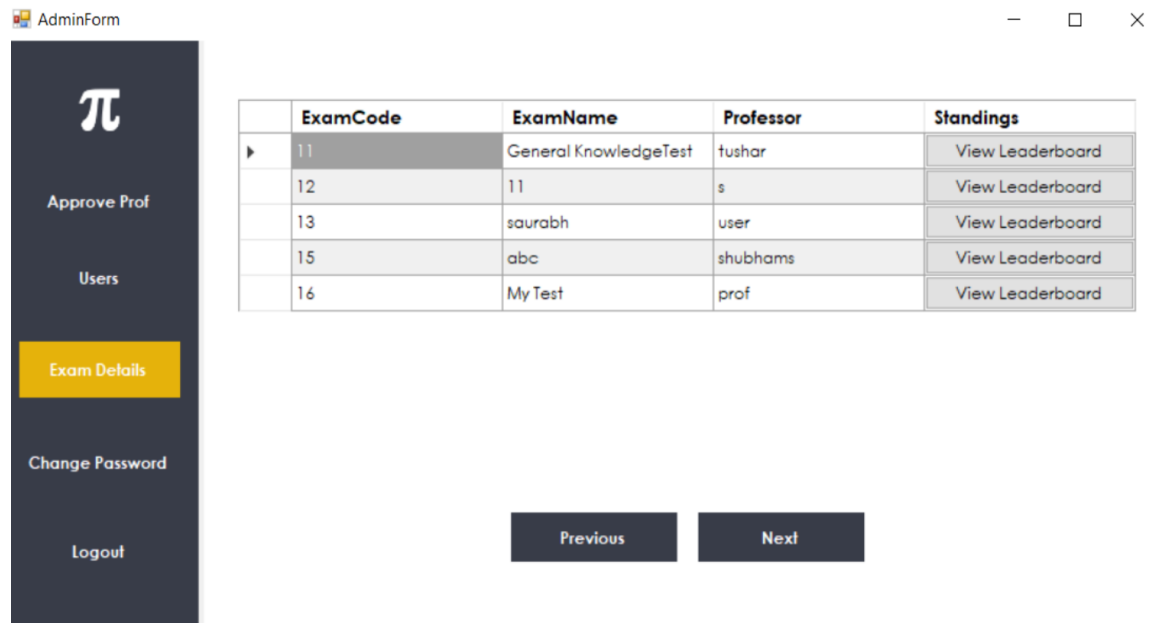
- **View all Users**

Admin can view details of the students and professors.



- View Past Exams

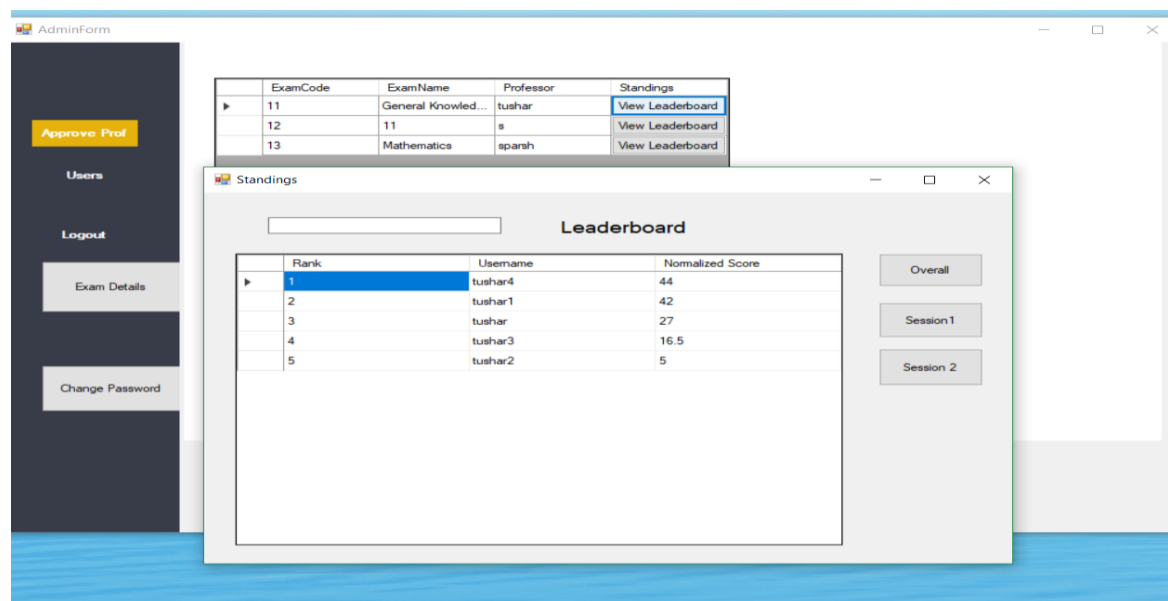
Admin can view all the tests conducted in the past along with the exams that are going to be conducted.



The screenshot shows the AdminForm application interface. On the left is a dark sidebar with a logo (π) and navigation buttons: "Approve Prof", "Users", "Exam Details" (highlighted in yellow), "Change Password", and "Logout". The main area displays a table of exams with columns: ExamCode, ExamName, Professor, and Standings. Below the table are "Previous" and "Next" buttons.

	ExamCode	ExamName	Professor	Standings
▶	11	General KnowledgeTest	tushar	View Leaderboard
	12	11	s	View Leaderboard
	13	saurabh	user	View Leaderboard
	15	abc	shubhams	View Leaderboard
	16	My Test	prof	View Leaderboard

He/she can also view the statistics of past exams.



This screenshot shows the AdminForm application with the "Standings" window open. The window displays a "Leaderboard" table with columns: Rank, Username, and Normalized Score. To the right of the table are buttons for "Overall", "Session1", and "Session2". The background shows the same exam list as the previous screenshot, with the "View Leaderboard" link for ExamCode 11 highlighted.

Rank	Username	Normalized Score
▶ 1	tushar4	44
2	tushar1	42
3	tushar	27
4	tushar3	16.5
5	tushar2	5

- Generate certificates for past tests

Admin can generate certificate for any exam that is/will be conducted.

The screenshot shows a web application window titled "StudentForm". On the left is a dark sidebar with a white pi symbol (π) at the top. Below the symbol are several menu items: "My Profile", "Enroll to a Group", "Unenroll me from a Group", "Upcoming Tests", "Past Tests", "Certificates" (highlighted in yellow), "Edit Profile", "Change Password", and "Log Out". The main content area is white and contains the text "Select Exam" followed by a dropdown menu showing "abc". Below this, centered, is a dark button with the text "Generate Certificate".

6.EXAM WINDOW

It is embedded with following components

- **Exam details**

Here name of the exam, Number of questions you have attempted and Maximum marks of the exam are displayed

- **Timer**

Time remaining is shown here

- **Legend**

It specifies what each colour of a question number in the Index Panel indicates.

- **Index Panel**

It displays the numbers of the current section and current state of each.

- **Control Buttons**

Located at bottom of the page, using which we can

- Go to previous question
- Navigate to next question
- Mark current question for review
- Save Response: **After marking the answer one needs to press save response before proceeding to another question.**
- Clear Response marked for current question.
- End test.


- **Marking Scheme**

All sections with the weightage of each question is displayed here.

- **Sections Panel**

Sections present in the exam are displayed in a ribbon. On clicking on a section, one can navigate to corresponding section

- **Answers Panel**
Place where you will select the answer
- **Question Panel**
Area where Question is displayed.



Legend

- Visited question
- Attempted question
- Marked for Review

General KnowledgeTest

Time Remaining **18:16**

Questions Attempted: 3/30

Marking Scheme

Section 1: 5 Marks per question

Section 2: 7 Marks per question

Section 3: 3 Marks per question

Section1 Section2 Section3

Question Number 10

Epsom (England) is the place associated with Shooting

Answer

☐ TRUE

☐ FALSE

1	2	3
4	5	6
7	8	9
10		

Previous

Next

Mark for Review

Save Response

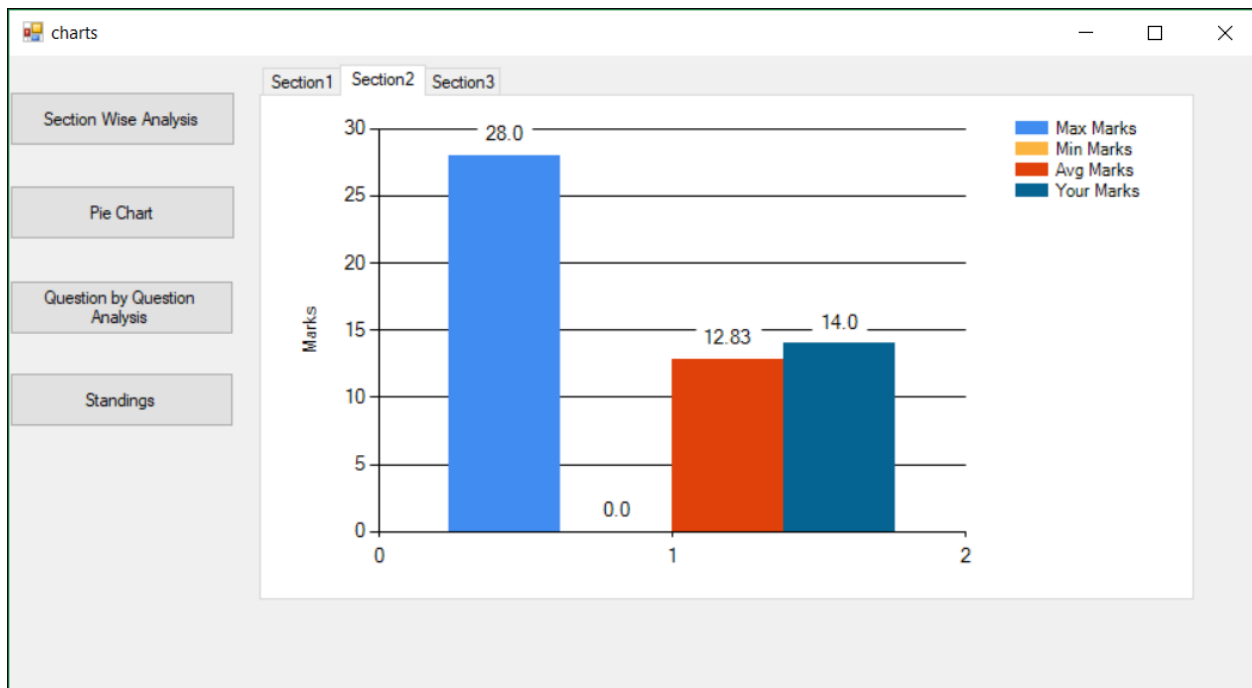
Clear Answer

End Test

7. TEST EVALUATION & ANALYSIS

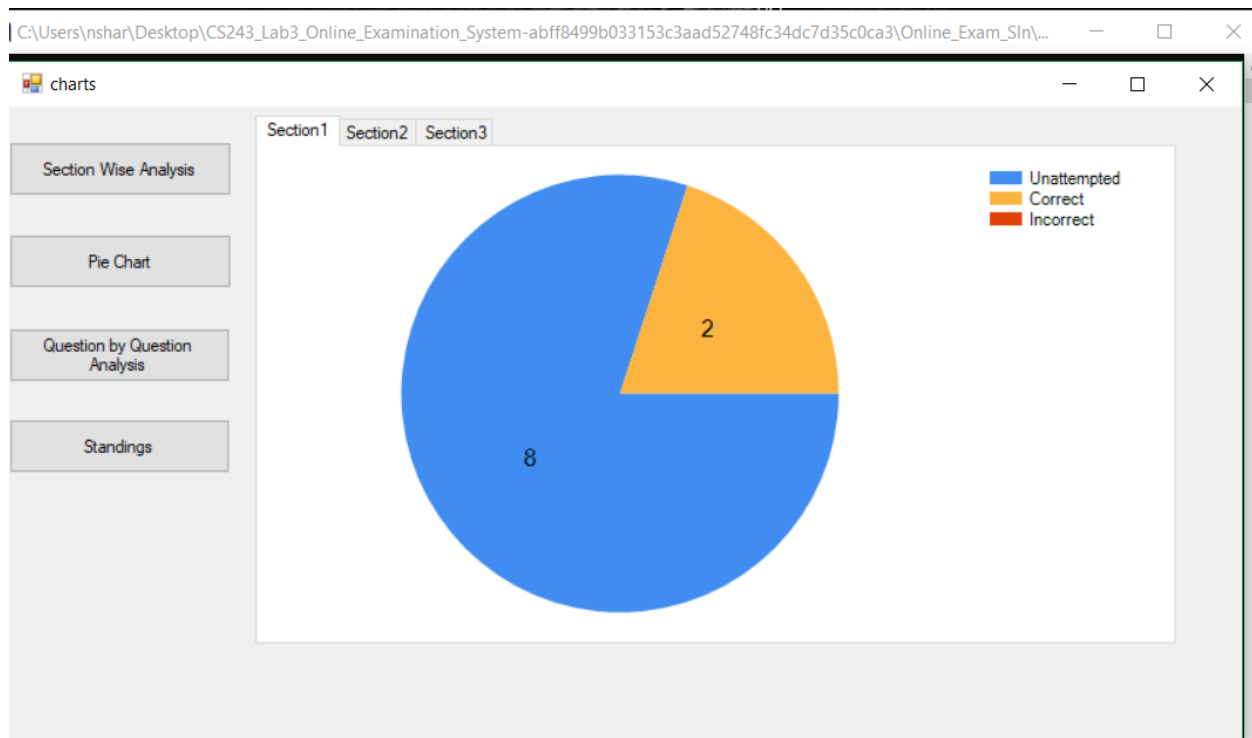
- Section Wise Analysis

Here, bar graphs showing your section wise performance are drawn your score is plotted along with Maximum, Minimum and Average marks.



- Pie Charts

Here pie charts depicting Questions that are Correct, Incorrect and Unattempted are plotted for each section.



- Question-wise Analysis

In this, Length of the exam (in minutes), Total score secured, Normalized score o

charts

Section Wise Analysis

Pie Chart

Question by Question Analysis

Standings

Legend

- Correct Answer
- Incorrect Answer
- Unattempted Question

General Knowledge Test

Session Number 1

Exam Length (min) 1

Total Score 27

Normalized Score 94.5

Section-wise Details

Max Score 28

Min Score 0

Average Score 12.833

Marking Scheme

Section 1: 5 Marks per question

Section 2: 7 Marks per question

Section 3: 3 Marks per question

Section1 Section2 Section3

Question 1

During World War II, which year did Germany attack France?

Your answer: India

Correct answer: India

Question 2

Ecology deals with the relation between organisms and their environment.

Your answer: Unattempted

Correct answer: True

Question 3

Guru Gobind Singh was

1) founder of Khalsa, the inner council of the Sikhs in 1699

2) author of Dasam Granth

3) the 11th Guru of the Sikhs

Your answer: Unattempted

Correct answer: Options 2,3

Question 4

