



# ONLINE EXAMINATION PORTAL USER GUIDE

**Team ID: 03**

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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

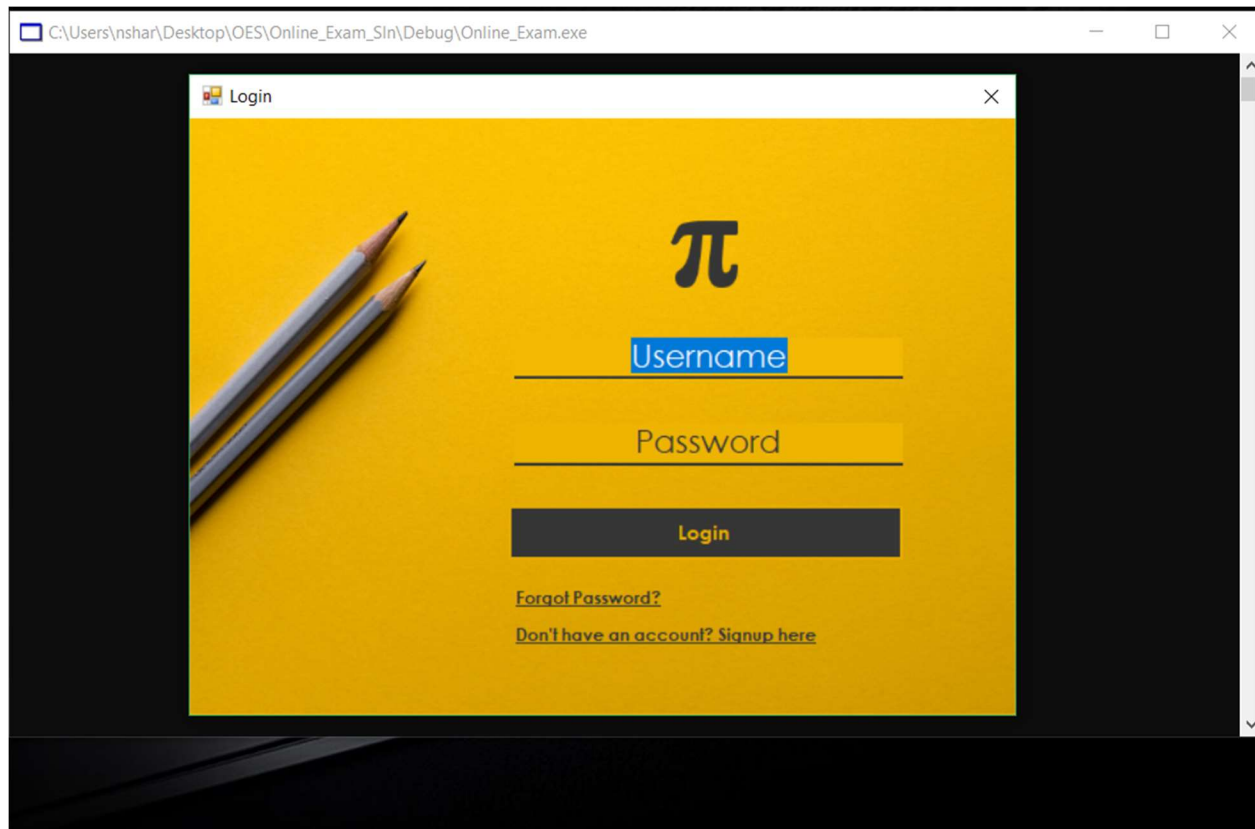
Branch  
CSE

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

$\pi$

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

$\pi$

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

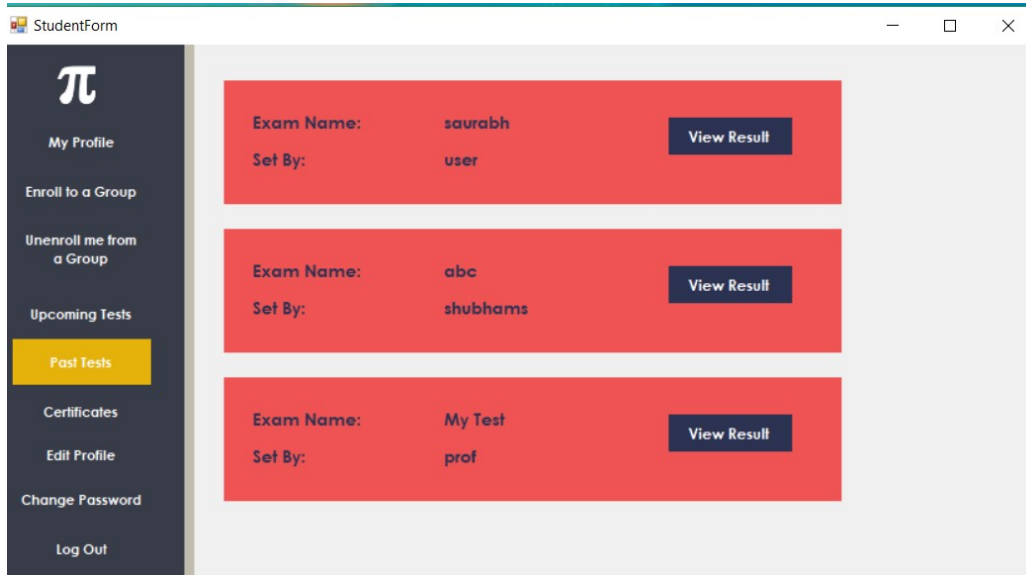
IITG Student

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.)

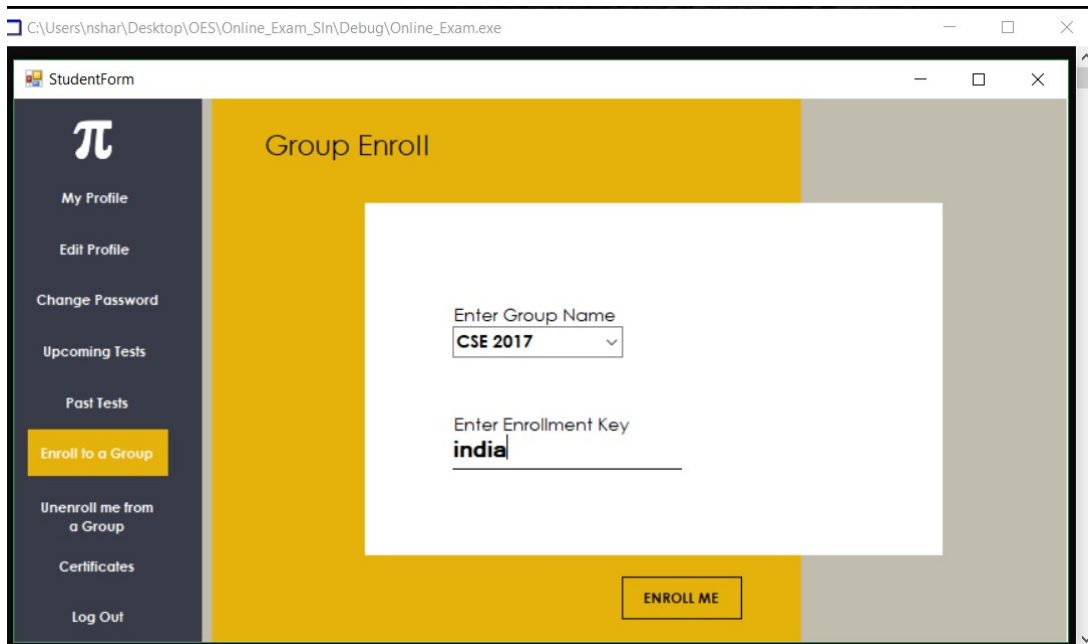
- **Upcoming tests**

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



- **Enroll to a group**

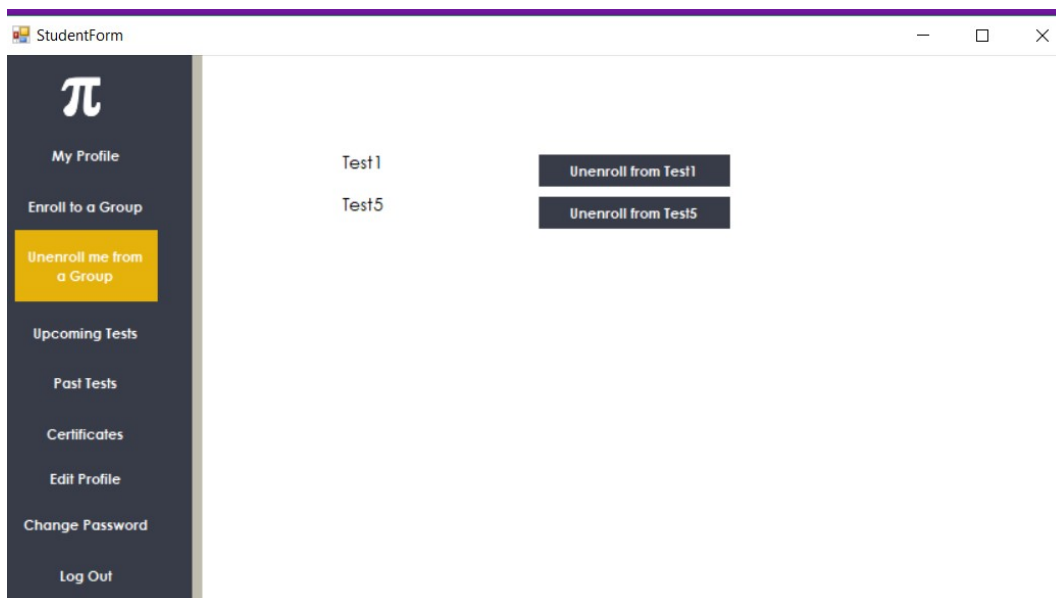
Through this button student can join a group created by professor. Some groups don't require an enrollment key while some demands one. If one is required student need to enter one.



The screenshot shows a web application window titled "StudentForm". On the left is a dark sidebar with a white pi symbol and a list of navigation links: "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 "Group Enroll". Below this is a white form 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 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 sidebar is identical, but the "Unenroll me from a Group" link is highlighted in yellow. The main content area is white and displays two test entries: "Test1" and "Test5". To the right of each test name is a dark button labeled "Unenroll from Test1" and "Unenroll from Test5" respectively.



- [Certificates](#)

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



# Certificate of Completion

This award certifies that

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has successfully completed

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With a grade of

---

*Indrem Kumar* Indian Institute of Technology Guwahati,  
Guwahati, Assam

- [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.

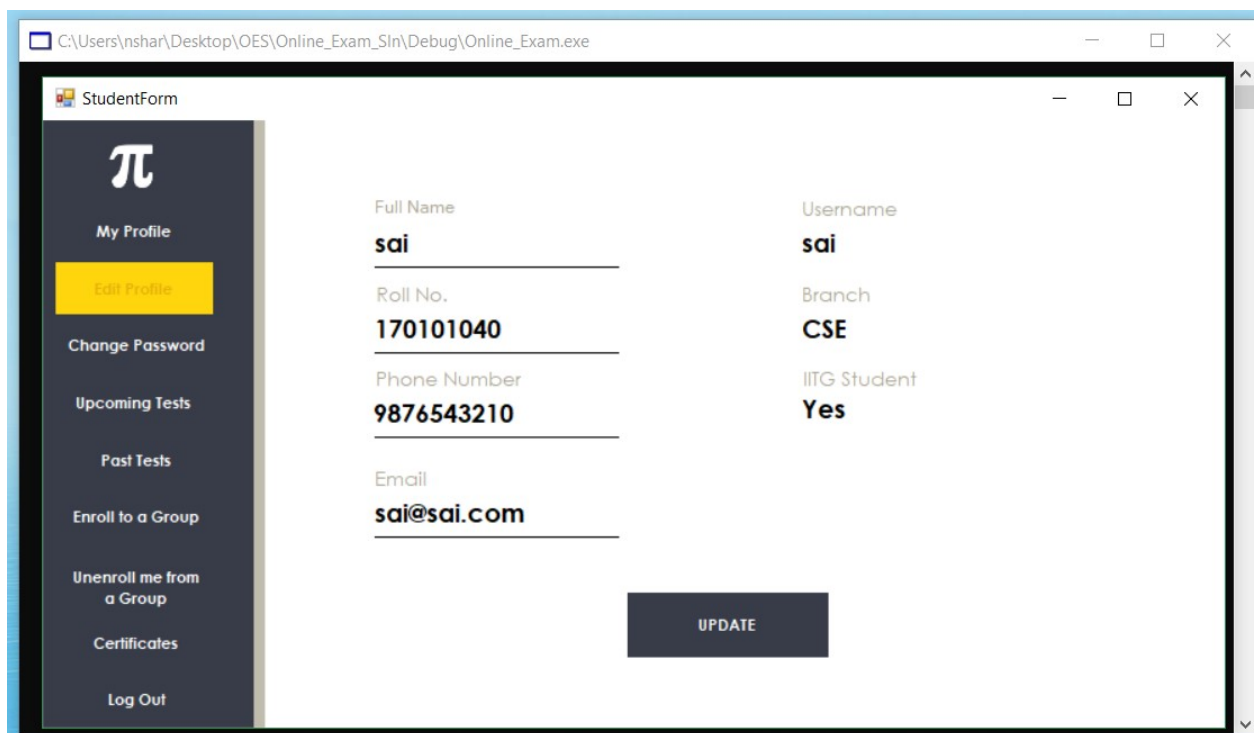
The buttons are:

- **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

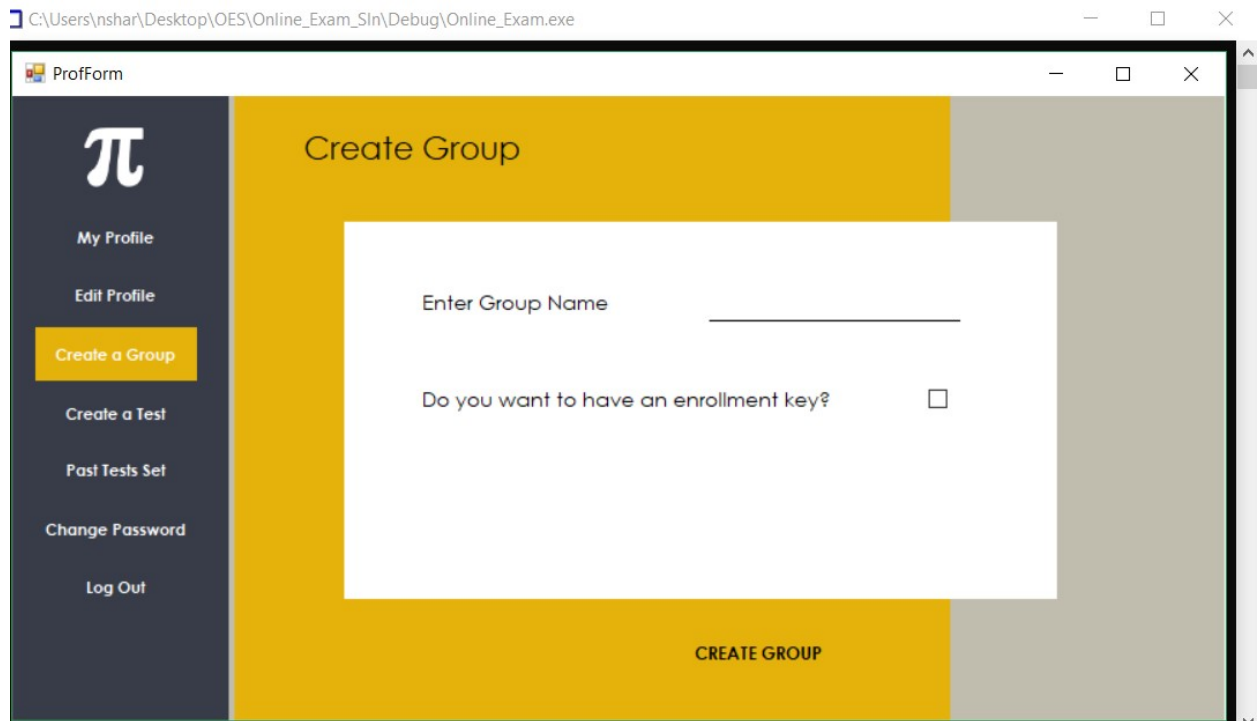


The screenshot shows a web application window titled "StudentForm". The window has a dark sidebar on the left with a logo (π) and several menu items: "My Profile", "Edit Profile" (highlighted in yellow), "Change Password", "Upcoming Tests", "Past Tests", "Enroll to a Group", "Unenroll me from a Group",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

| 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.



- **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\_Sin\Debug\Online\_Exam.exe

### ProfForm

**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

**Enter Exam Details**

**AddQues**

Section: 2

Question No 1      Total Question in this section - 1

IS  $2*2=4$  ?

**Answers**

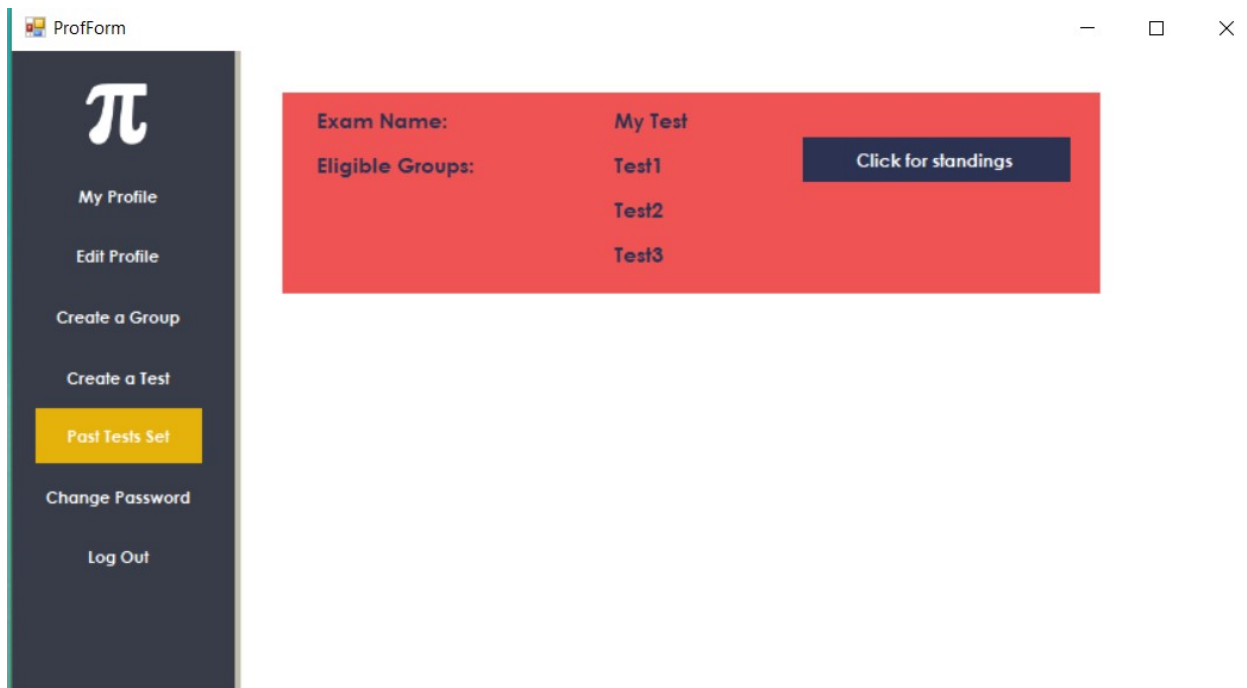
**MCQ**    True/False    One Word

☒ 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.

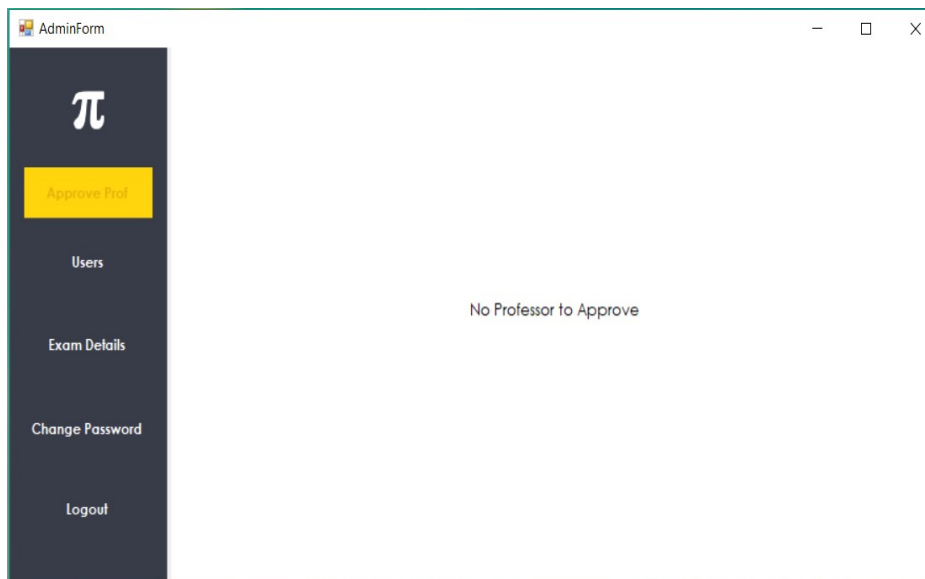
## 5.ADMIN DASHBOARD

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

Admin can:

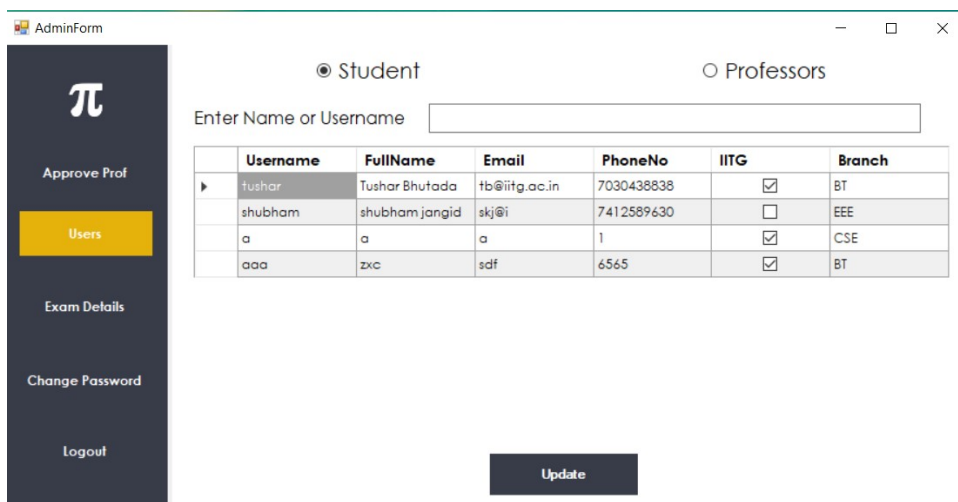
- **Approve Professors**

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



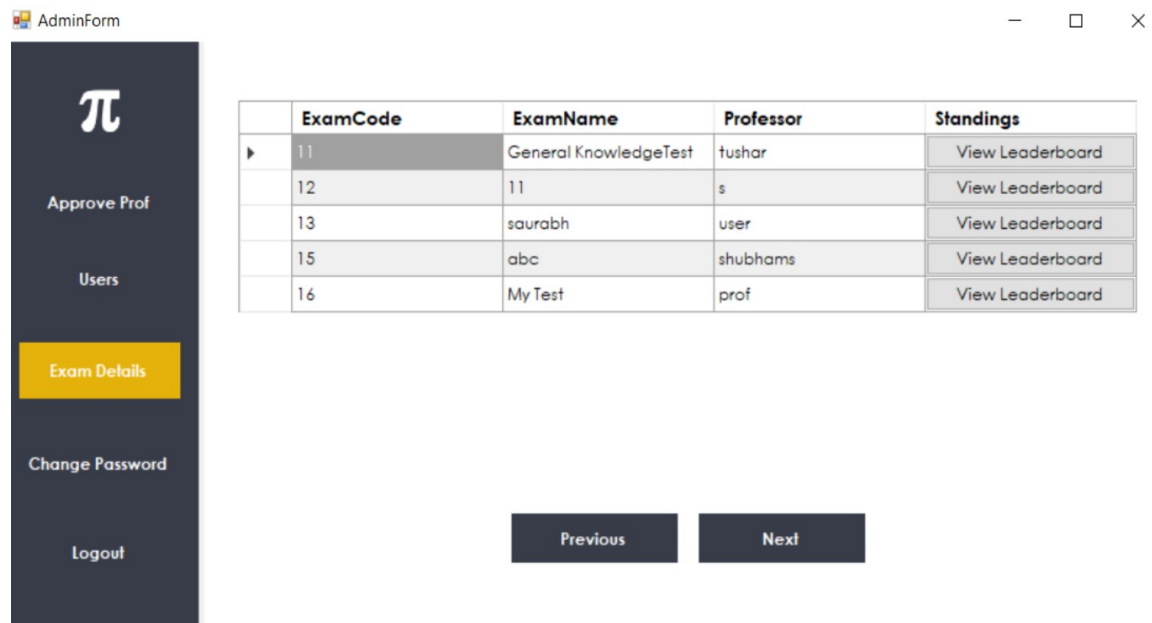
- **View all Users**

Admin can view details of the students and professors.



- View Past Exams

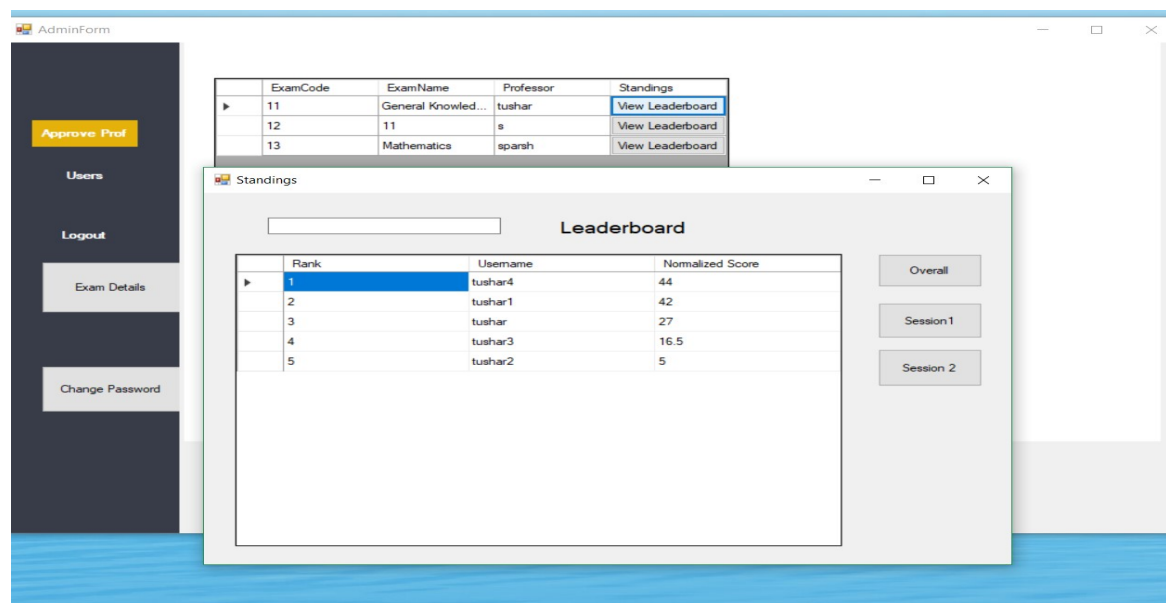
Admin can view all the tests conducted in the past along with the exams that are going to be conducted.



The screenshot shows the AdminForm 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    | <a href="#">View Leaderboard</a> |
|   | 12       | 11                    | s         | <a href="#">View Leaderboard</a> |
|   | 13       | saurabh               | user      | <a href="#">View Leaderboard</a> |
|   | 15       | abc                   | shubhams  | <a href="#">View Leaderboard</a> |
|   | 16       | My Test               | prof      | <a href="#">View Leaderboard</a> |

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



The screenshot shows the AdminForm interface with a "Standings" modal open. The modal contains a "Leaderboard" table with columns: Rank, Username, and Normalized Score. To the right of the table are buttons for "Overall", "Session1", and "Session 2". The background shows the same exam table 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 ( $\pi$ ) 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" (which is 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" with a downward arrow. 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

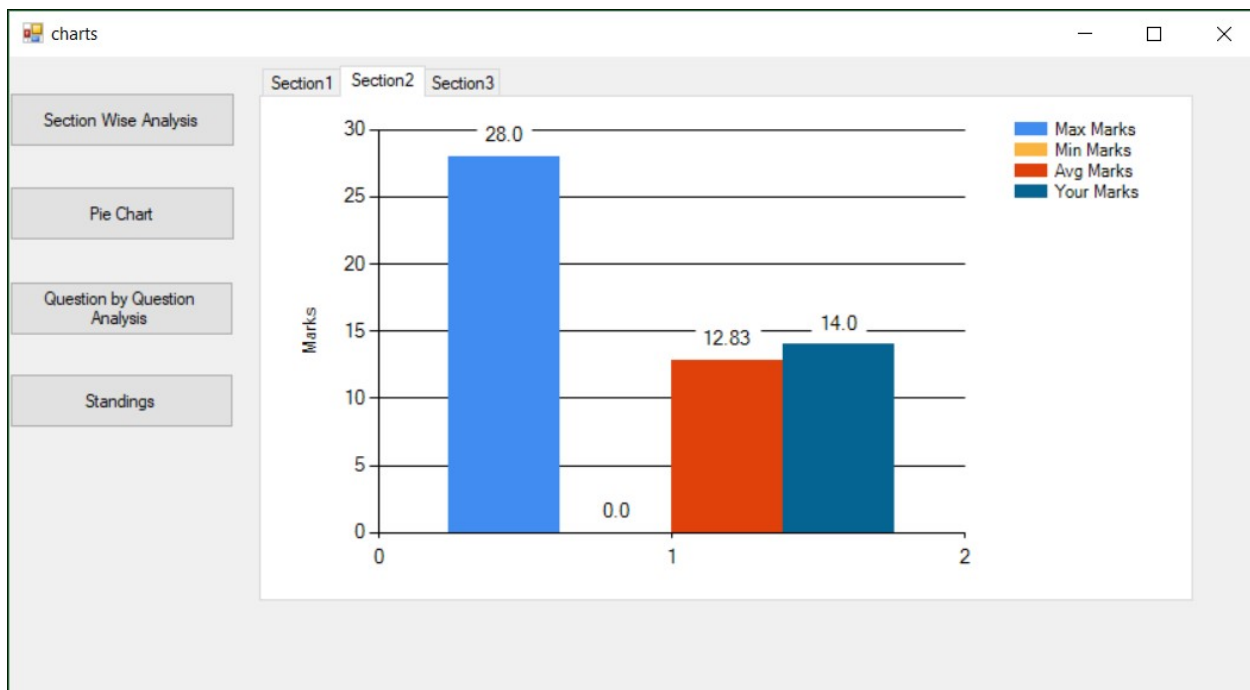
Clear Answer

End Test

## 7. TEST EVALUATION & ANALYSIS

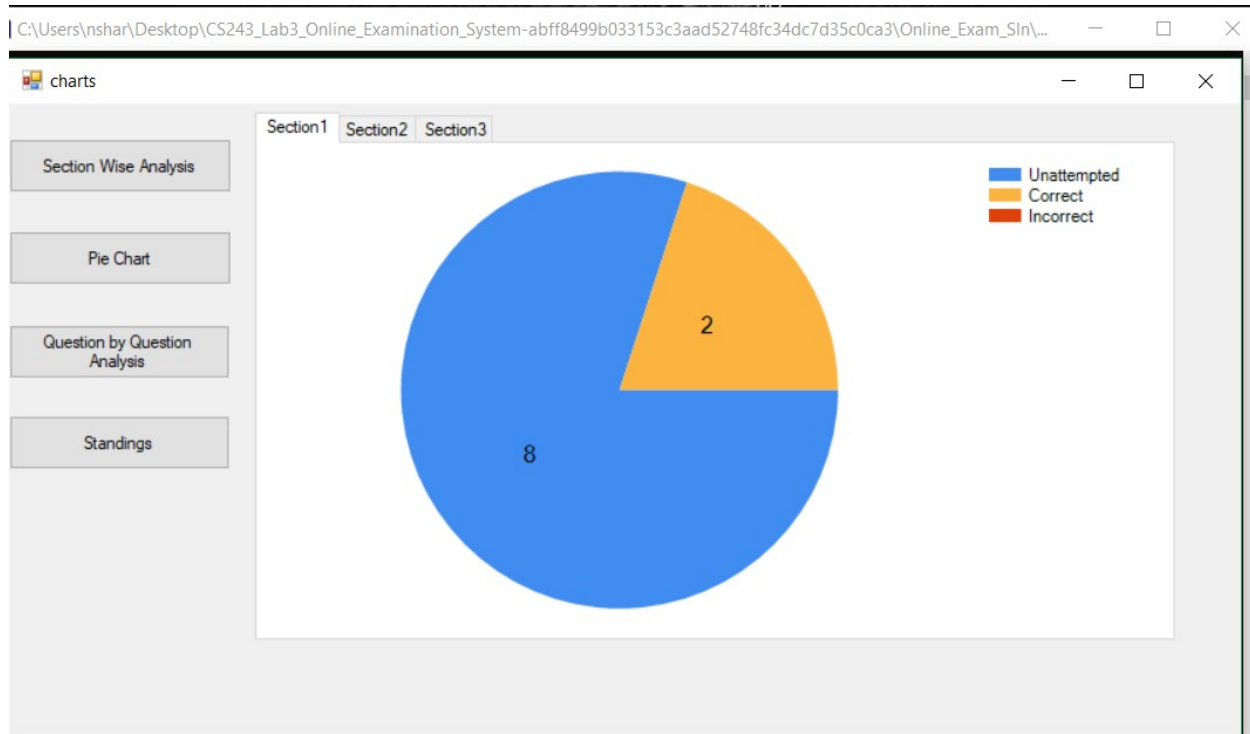
- Section Wise Analysis

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**

