

PrashnaSetu

Think. Compete. Conquer.

Table of Contents

Serial No.	Title	Page No.
01	Introduction	02-06
02	Instructor Dashboard	07-17
03	Proctor Registration	18-19
04	Student Performance	20-22
05	Monitor	23-23
06	Contact & Support	24-24



Introduction

PrashnaSetu is a **modern quiz management system** designed for educational institutions, blending traditional assessments with modern digital evaluation. Built using **JavaFX**, it offers secure, scalable, and user-friendly solutions for educators and students.

Purpose and Primary Features

Purpose:

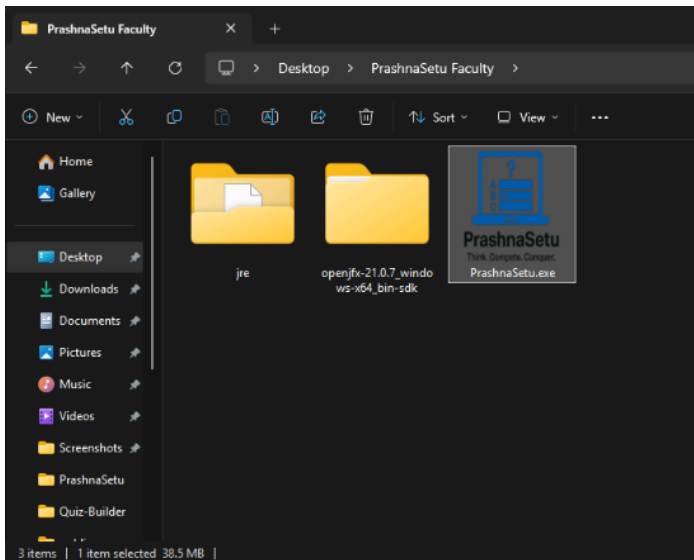
- Facilitate secure quiz administration
- Enable real-time monitoring for academic integrity
- Streamline quiz creation/management
- Generate robust performance analytics
- Support hierarchical user management (Admin, Instructor, Proctor, Student)

Key Features:

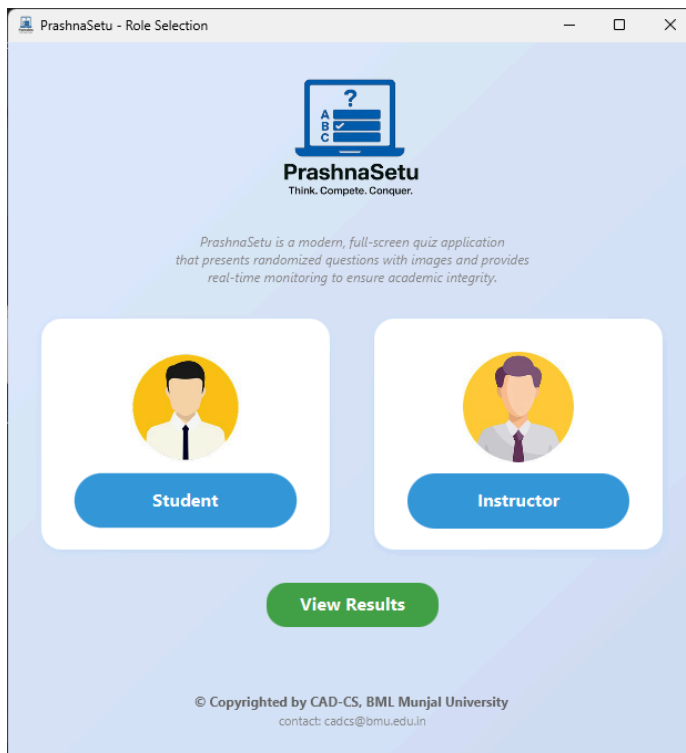
- Multi-role access control (RBAC)
- Advanced quiz engine: supports images, mathematical expressions
- Real-time proctoring/monitoring
- Detailed analytics and export capabilities
- Secured authentication
- Academic integrity tools: time limits, randomization, etc.

Starting the Application

1. Extract the distributed zip
2. Locate PrashnaSetu Executable file:



3. Run the executable file, upon running it the Role Selection screen will appear:

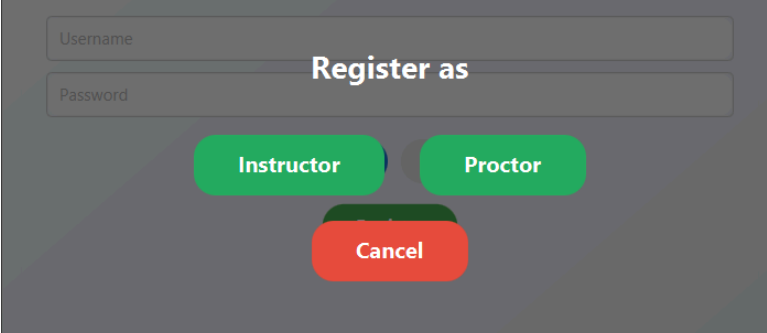




4. On the Role Selection Screen, select Instructor. This will redirect you to the Login Screen.

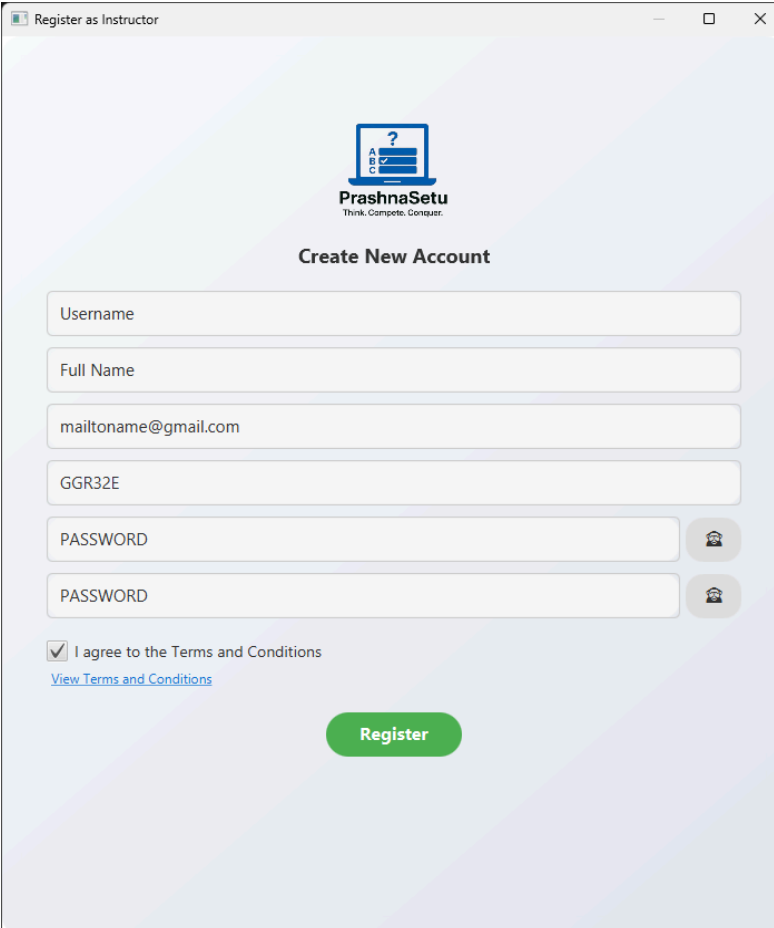
The screenshot shows a web browser window titled 'PrashnaSetu - Login'. The page has a light blue and white background with diagonal stripes. At the top center is the PrashnaSetu logo and tagline. Below the logo, the text 'Login to your account' is displayed. There are two input fields: 'Username' and 'Password'. Below these fields are three buttons: 'Login' (blue), 'Back' (grey), and 'Register' (green). At the bottom of the page, there is a copyright notice: '© Copyrighted by CAD-CS, BML Munjal University contact: cadcs@bmu.edu.in'.

5. If a **Username** and **Password** have been provided by the admin, log in using those credentials. Alternatively, click **Registration** and select **Instructor**.



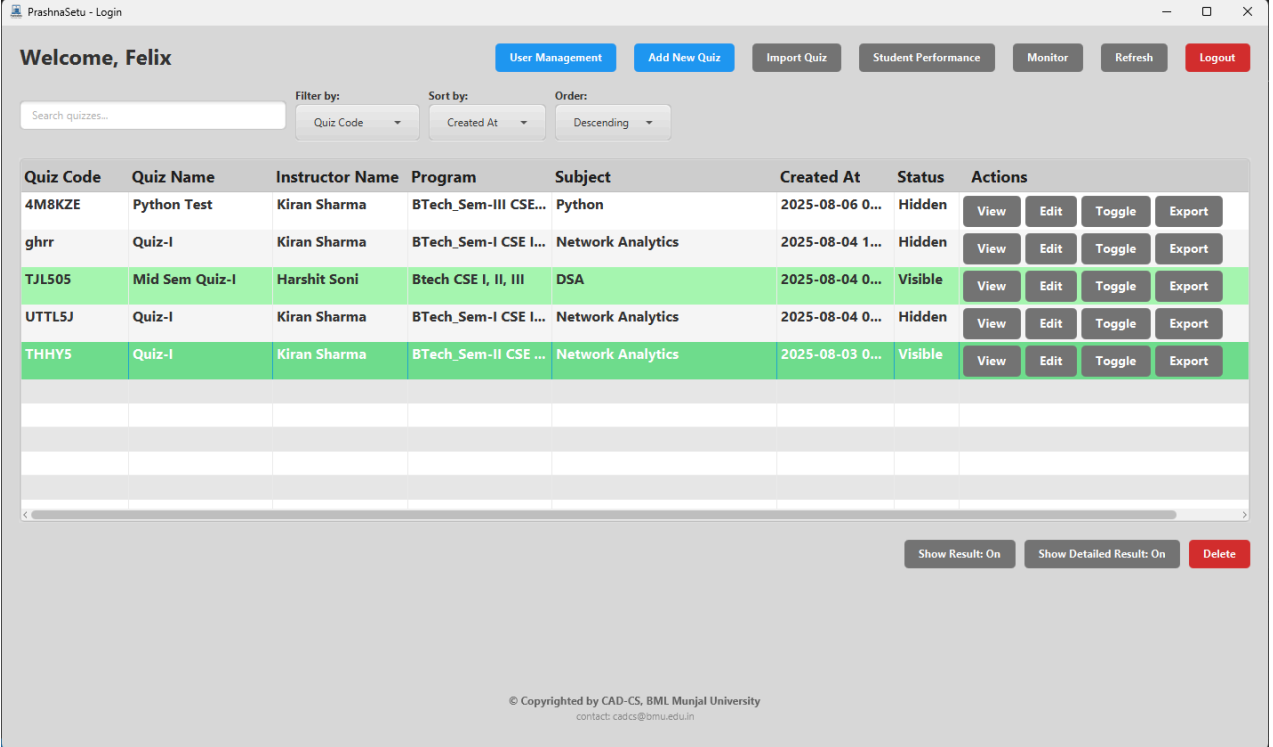
A registration modal form with a dark gray background. It features two input fields at the top: 'Username' and 'Password'. Below these fields is the text 'Register as' in white. Underneath, there are three buttons: 'Instructor' (green), 'Proctor' (green), and 'Cancel' (red). The 'Instructor' button is currently selected.

6. The **Registration Screen** will appear. Fill out the form with your desired credentials and the **registration code** provided by the admin to create an account.



A registration screen titled 'Register as Instructor' in the window header. It features the PrashnaSetu logo and the text 'Create New Account'. Below this, there are several input fields: 'Username', 'Full Name', 'mailtoname@gmail.com', 'GGR32E', 'PASSWORD', and another 'PASSWORD' field. To the right of the password fields are icons for password strength. At the bottom, there is a checkbox labeled 'I agree to the Terms and Conditions' with a link 'View Terms and Conditions' below it. A green 'Register' button is at the bottom center.

7. **Upon successful login, you'll be directed to the Instructor Dashboard.** For detailed information on its features and functionalities, refer to the *Instructor Dashboard* section of this guide.



Welcome, Felix

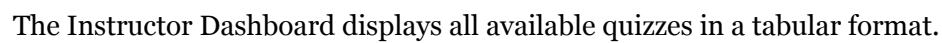
Search quizzes...

Filter by: Quiz Code Sort by: Created At Order: Descending

Quiz Code	Quiz Name	Instructor Name	Program	Subject	Created At	Status	Actions
4M8KZE	Python Test	Kiran Sharma	BTech_Sem-III CSE...	Python	2025-08-06 0...	Hidden	View Edit Toggle Export
ghrr	Quiz-I	Kiran Sharma	BTech_Sem-I CSE I...	Network Analytics	2025-08-04 1...	Hidden	View Edit Toggle Export
TJL505	Mid Sem Quiz-I	Harshit Soni	Btech CSE I, II, III	DSA	2025-08-04 0...	Visible	View Edit Toggle Export
UTTLSJ	Quiz-I	Kiran Sharma	BTech_Sem-I CSE I...	Network Analytics	2025-08-04 0...	Hidden	View Edit Toggle Export
THHY5	Quiz-I	Kiran Sharma	BTech_Sem-II CSE ...	Network Analytics	2025-08-03 0...	Visible	View Edit Toggle Export

Show Result: On Show Detailed Result: On Delete

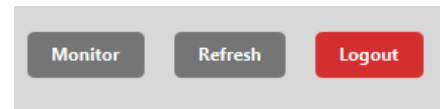
© Copyrighted by CAD-CS, BML Munjal University
contact: cadcs@bmlu.edu.in



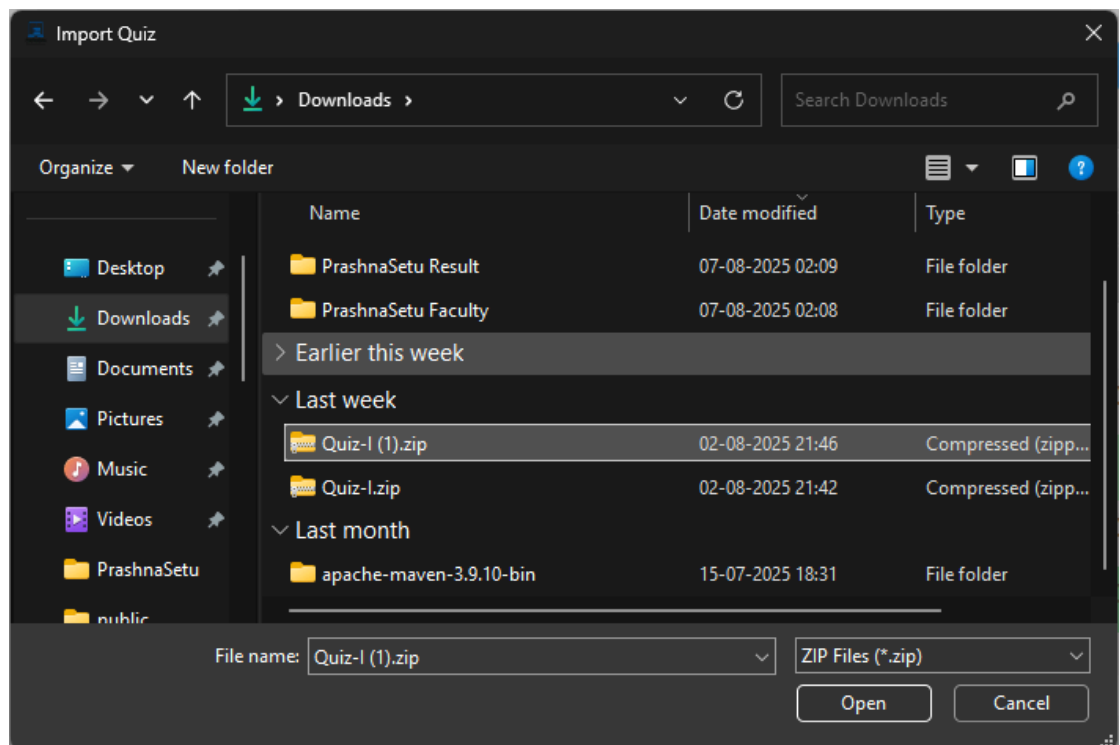
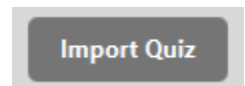
- General functions include: Add Proctor, Import Quiz, Refresh, and Logout.
- Quiz-specific functions include: View Quiz, Edit Quiz, Toggle Visibility, Export Quiz, Show Result, Show Detailed Result, Remove, Monitor, and Student Performance.

General Functions

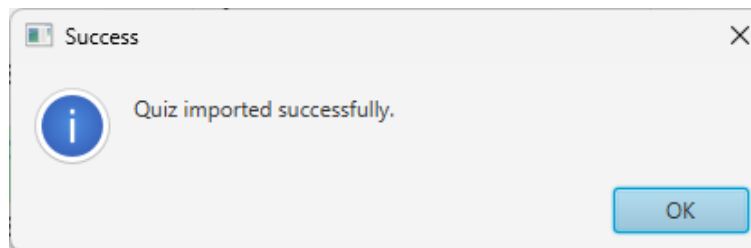
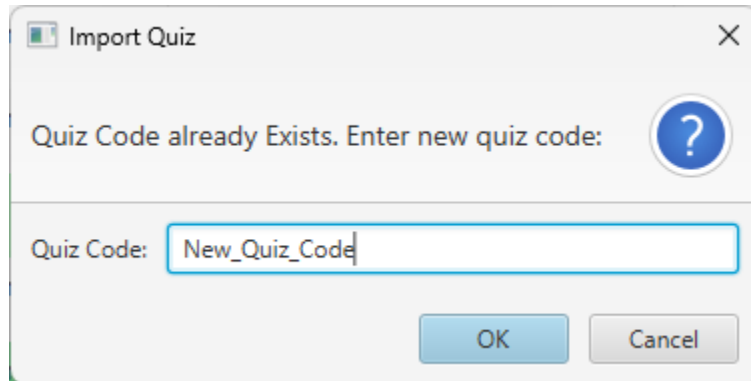
- Refresh
 - Updates the quiz table with the latest data from the database.



- Import Quiz
 - The zips generated from the PrashnaSetu website can be imported using this function.
 - Step 1: Click the Import Quiz button.
 - Step 2: Locate the ZIP file generated from the website.



- Step 3: If a quiz with the same Quiz Code already exists, you'll be prompted to enter a new code. Otherwise, the quiz will be imported successfully, and the table will refresh to reflect the changes.



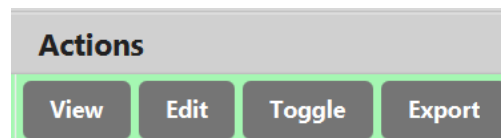
- Add Proctor
 - For details on adding proctors, refer to the Add Proctor section of this manual.
- Logout
 - By clicking the Logout button users can securely log out of their current session.

Add Proctor

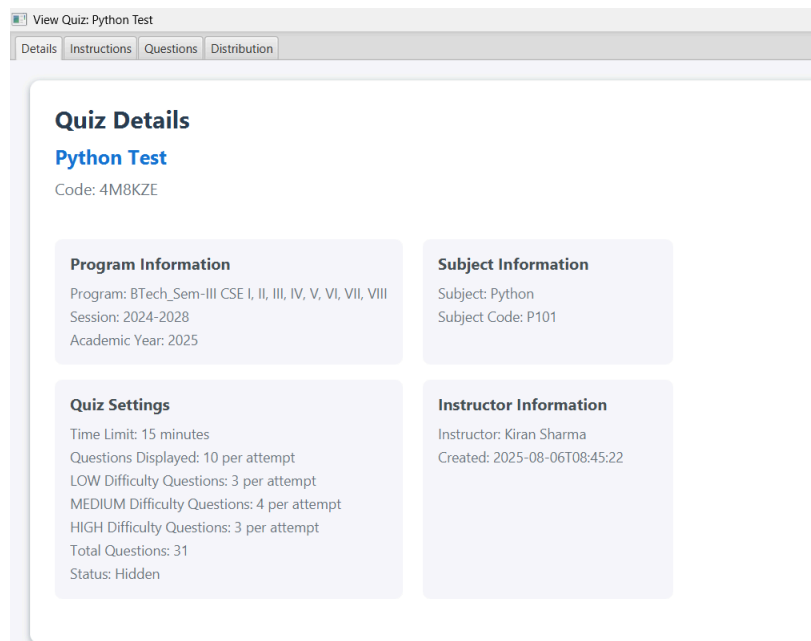
Logout

Quiz Specific Functions

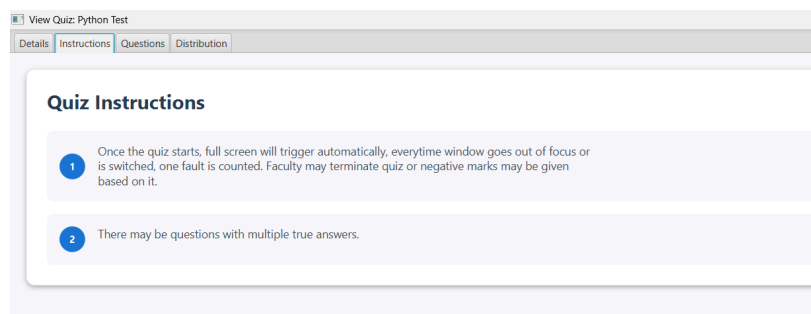
- View Quiz
 - By using the **View Quiz** button, users can quickly view quiz details divided into four sections for easy access:



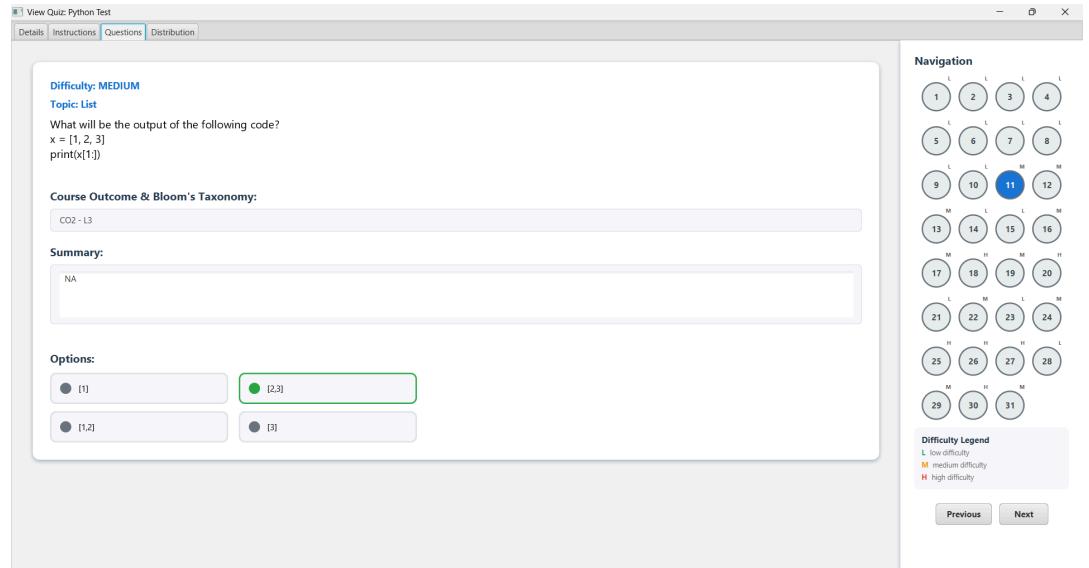
- **Details:** Displays program information (course, batch, section, and semester the quiz is intended for), subject information, quiz settings (time limit, total number of questions, difficulty-wise distribution per attempt), and instructor information.



- **Instructions:** Displays the instructions for the quiz.



- **Questions:** Displays all questions that are part of the quiz. (Note: The total number of questions may be higher than the number shown to students, as a shuffled subpool is served per attempt.)



View Quiz: Python Test

Details | Instructions | Questions | Distribution

Difficulty: MEDIUM
Topic: List

What will be the output of the following code?
x = [1, 2, 3]
print(x[1:])

Course Outcome & Bloom's Taxonomy:
CO2 - L3

Summary:
NA

Options:

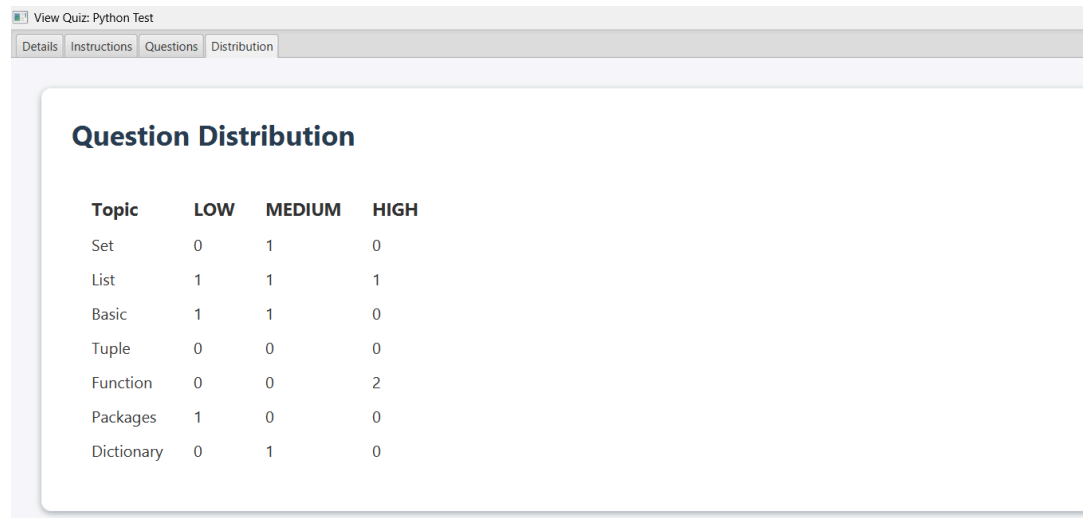
☐ [1] ☒ [2,3] ☐ [1,2] ☐ [3]

Navigation

Difficulty Legend
L low difficulty
M medium difficulty
H high difficulty

Previous Next

- **Question Distribution:** Displays the number of questions served to the student, categorized by difficulty and topic.



View Quiz: Python Test

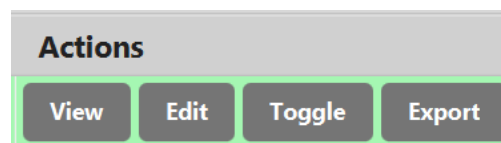
Details | Instructions | Questions | Distribution

Question Distribution

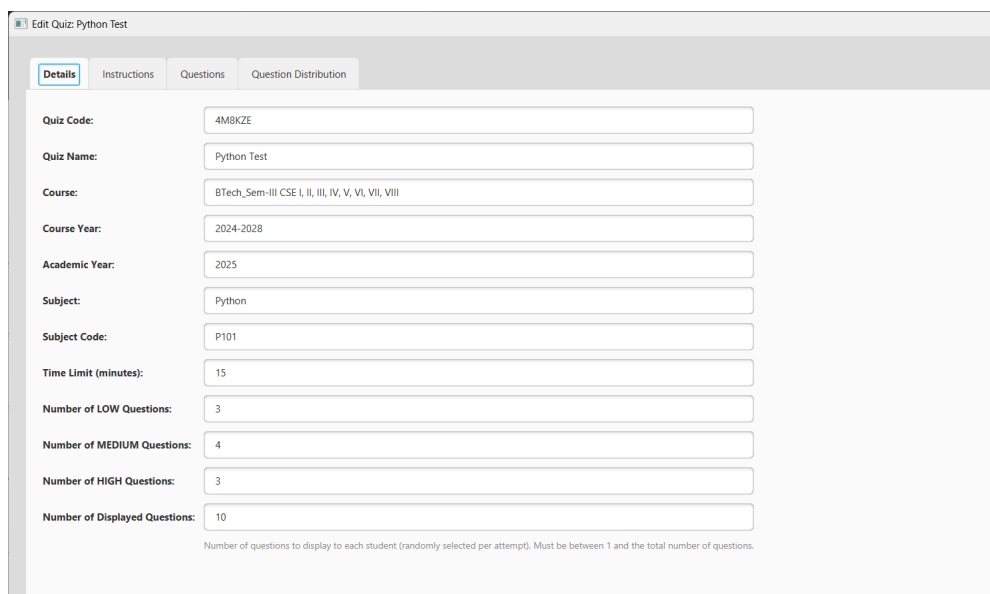
Topic	LOW	MEDIUM	HIGH
Set	0	1	0
List	1	1	1
Basic	1	1	0
Tuple	0	0	0
Function	0	0	2
Packages	1	0	0
Dictionary	0	1	0

- **Edit Quiz**

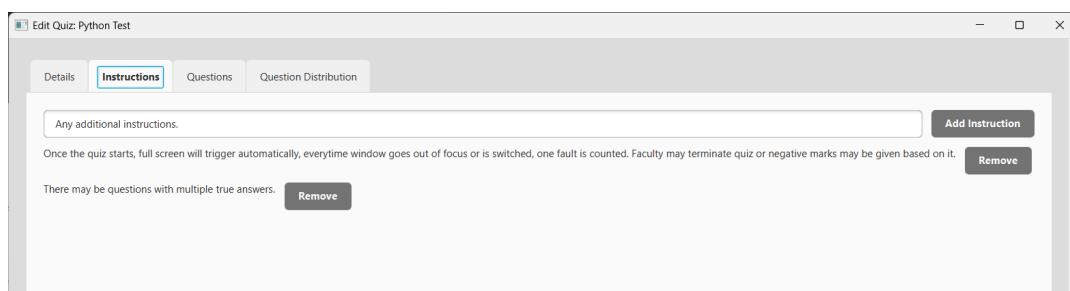
- By using the **Edit Quiz** button, users can modify quiz details, update or add instructions and questions, and adjust question distribution. Like **View Quiz**, this section is organized into four parts for easy access:



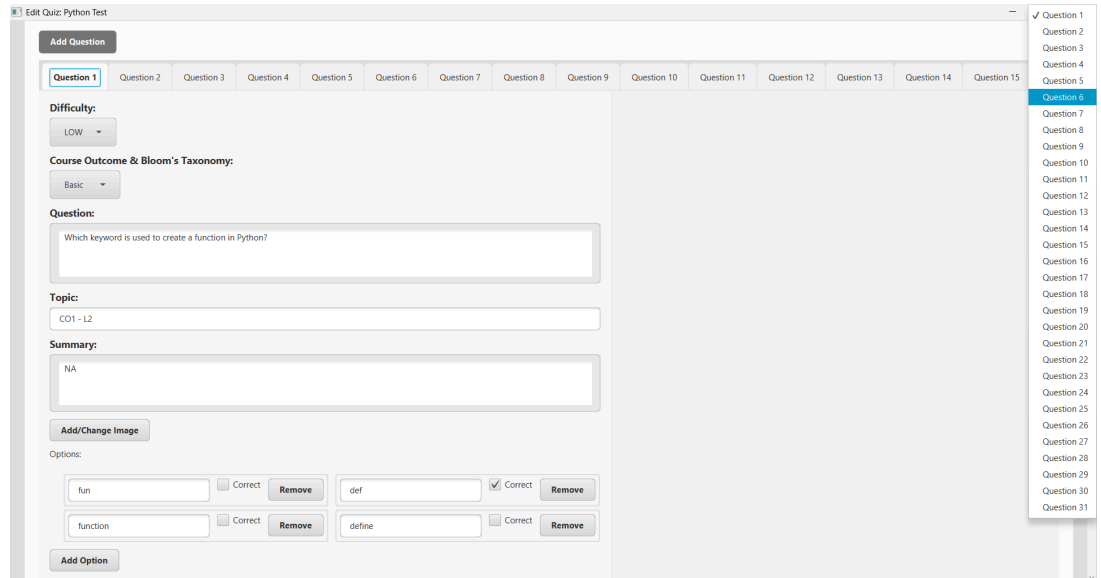
- **Details:** Allows editing of program information (course, batch, section, and semester the quiz is intended for), subject information, quiz settings (time limit, total number of questions and difficulty-wise distribution per attempt).



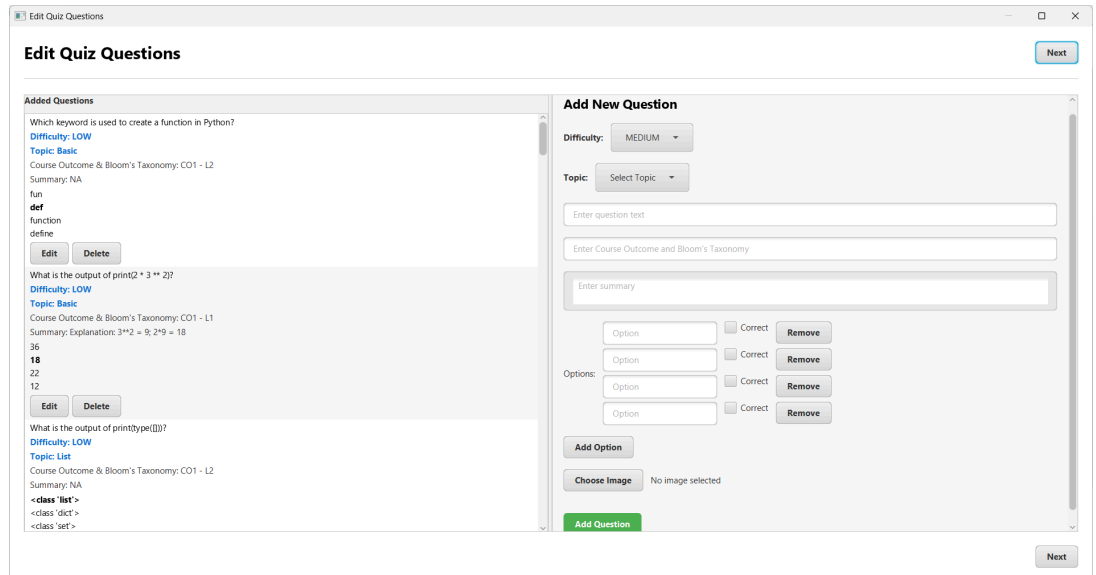
- **Instructions:** Enables updating or adding instructions for the quiz.



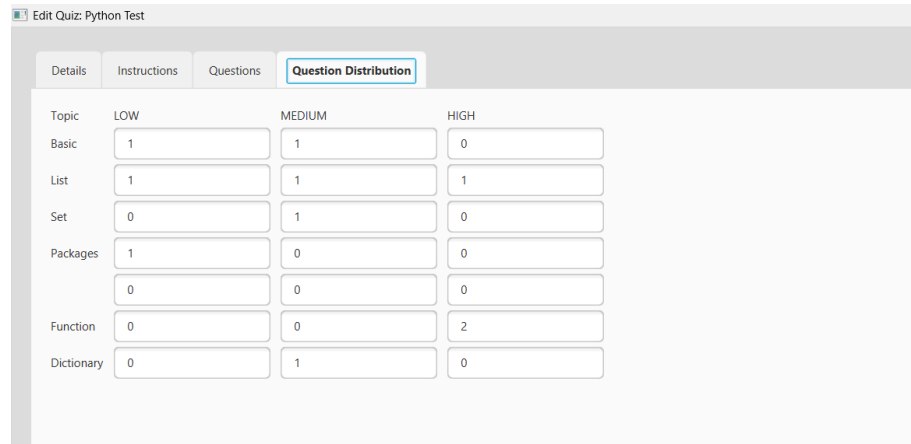
- **Questions:** Lets users edit existing questions or add new ones.
The **Questions** section contains two windows: one for editing existing questions, and another that can be accessed by clicking the **Add Question** button to add more questions.
Editing Questions:



Adding Questions:



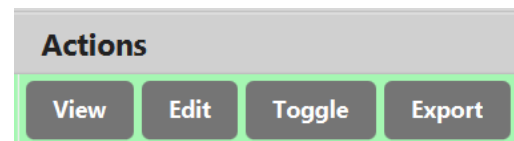
- **Question Distribution:** Allows modification of the number of questions served to students, categorized by difficulty and topic.



Topic	LOW	MEDIUM	HIGH
Basic	1	1	0
List	1	1	1
Set	0	1	0
Packages	1	0	0
	0	0	0
Function	0	0	2
Dictionary	0	1	0

- **Toggle Visibility**

- Allows toggling the quiz status between **Visible** and **Hidden**.
- **Status: Visible** The quiz is accessible to students and can be attempted, to be done during scheduled quiz timings.
- **Status: Hidden** The quiz is not visible/available to students. This is to be used for record-keeping, future scheduling, or administrative review.

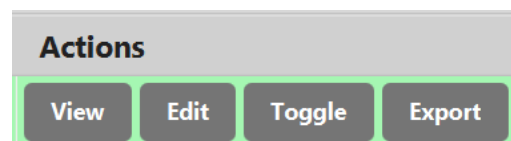


Actions

View Edit Toggle Export

- **Export Quiz**

- Allows the quiz to be exported as a ZIP file for record-keeping, backup, and future reference.



Actions

View Edit Toggle Export

- Remove

- Selecting **Remove Quiz** from the Instructor Dashboard removes the quiz from the instructor's view. However, **all associated data**—including questions, instructions, student performance records, results, and monitoring logs—**remain intact in the database** and are accessible to the Admin.
- *Note: This action cannot be undone.*



Remove

- Show Result On/Off & Show Detailed Result On/Off

- These two buttons work in coordination and determine what is displayed to the student upon quiz submission.



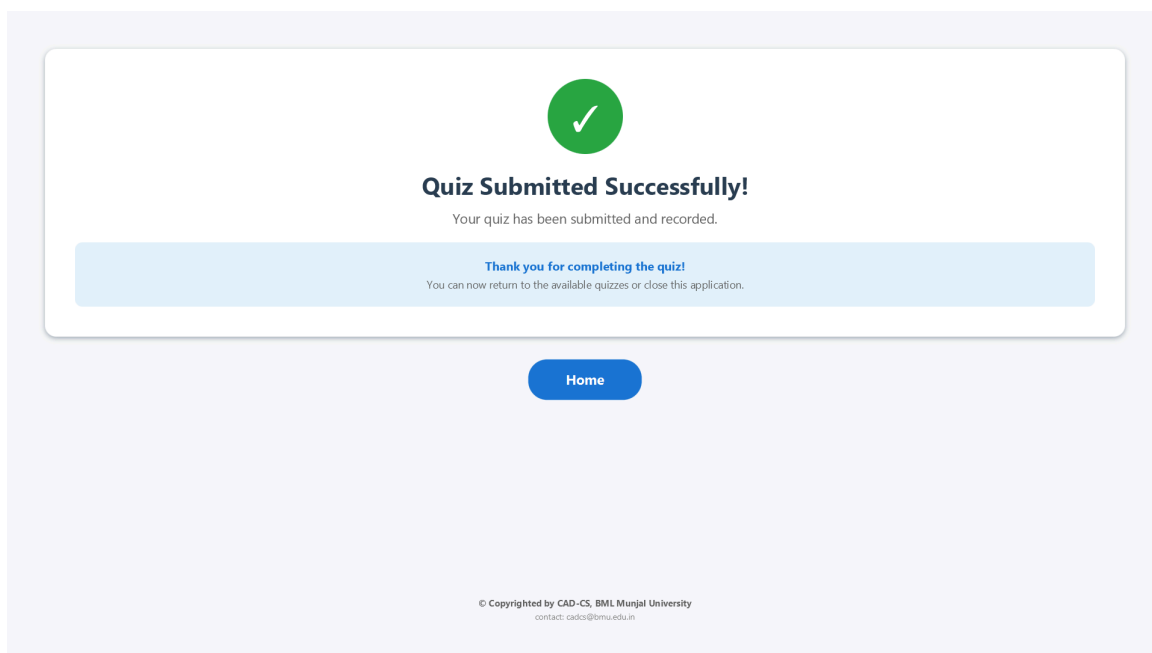
Show Result: On



Show Detailed Result: Off

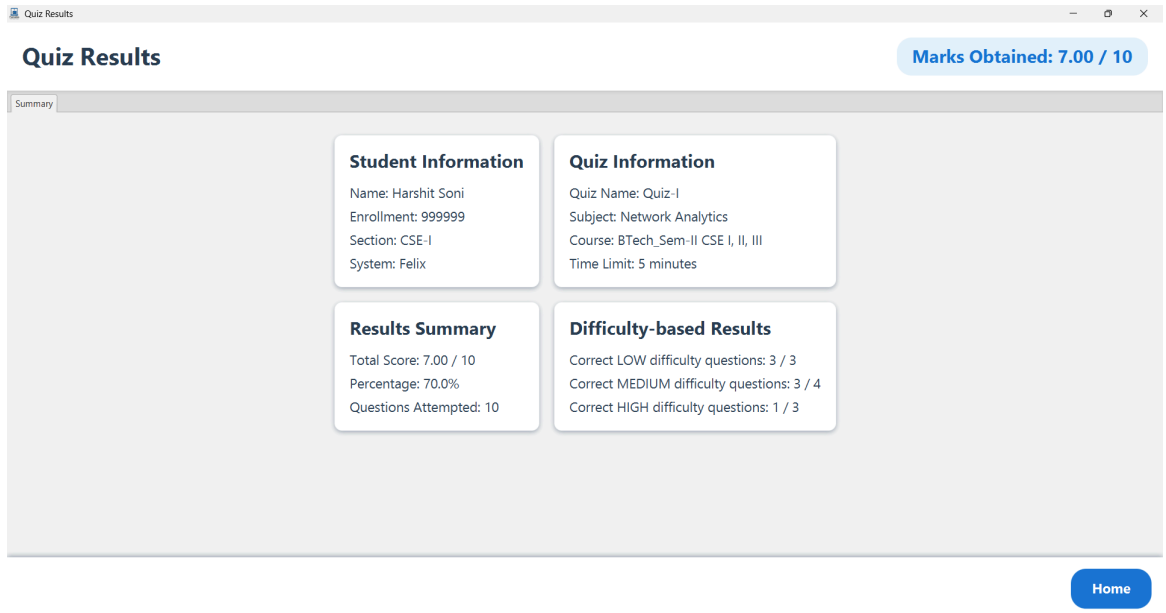
- **Show Result: Off**

The student will not be shown the marks obtained and will simply see a submission confirmation screen. Can be used when marks are to be released at a later time.



○ **Show Result: On & Show Detailed Result: Off**

The student will be shown the total marks obtained, percentage, and difficulty-wise marks breakdown.



Quiz Results Marks Obtained: 7.00 / 10

Summary

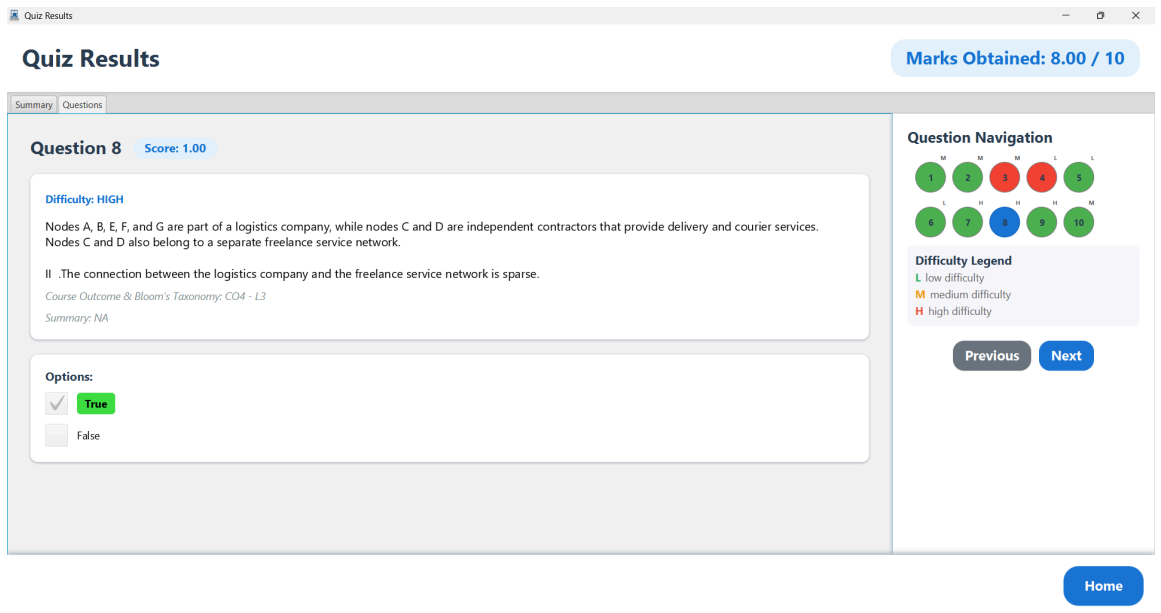
Student Information	Quiz Information
Name: Harshit Soni	Quiz Name: Quiz-I
Enrollment: 999999	Subject: Network Analytics
Section: CSE-I	Course: BTech_Sem-II CSE I, II, III
System: Felix	Time Limit: 5 minutes

Results Summary	Difficulty-based Results
Total Score: 7.00 / 10	Correct LOW difficulty questions: 3 / 3
Percentage: 70.0%	Correct MEDIUM difficulty questions: 3 / 4
Questions Attempted: 10	Correct HIGH difficulty questions: 1 / 3

[Home](#)

○ **Show Result: On & Show Detailed Result: On**

The student will be shown the total marks obtained, percentage, difficulty-wise marks breakdown, along with the questions they were served, the options they selected, the correct answers, and other details.



Quiz Results Marks Obtained: 8.00 / 10

Summary Questions

Question 8 Score: 1.00

Difficulty: HIGH

Nodes A, B, E, F, and G are part of a logistics company, while nodes C and D are independent contractors that provide delivery and courier services. Nodes C and D also belong to a separate freelance service network.

II .The connection between the logistics company and the freelance service network is sparse.

Course Outcome & Bloom's Taxonomy: CO4 - L3

Summary: NA

Options:

☒ True

☐ False

Question Navigation

1 2 3 4 5

6 7 8 9 10

Difficulty Legend

L low difficulty

M medium difficulty

H high difficulty

[Previous](#) [Next](#)

[Home](#)

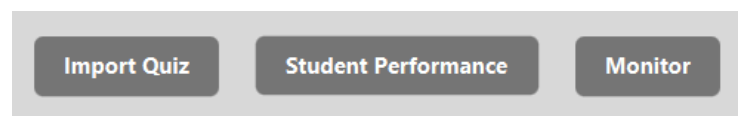
- **Monitor**

- For details on monitoring quizzes, refer to the Monitor section of this manual.



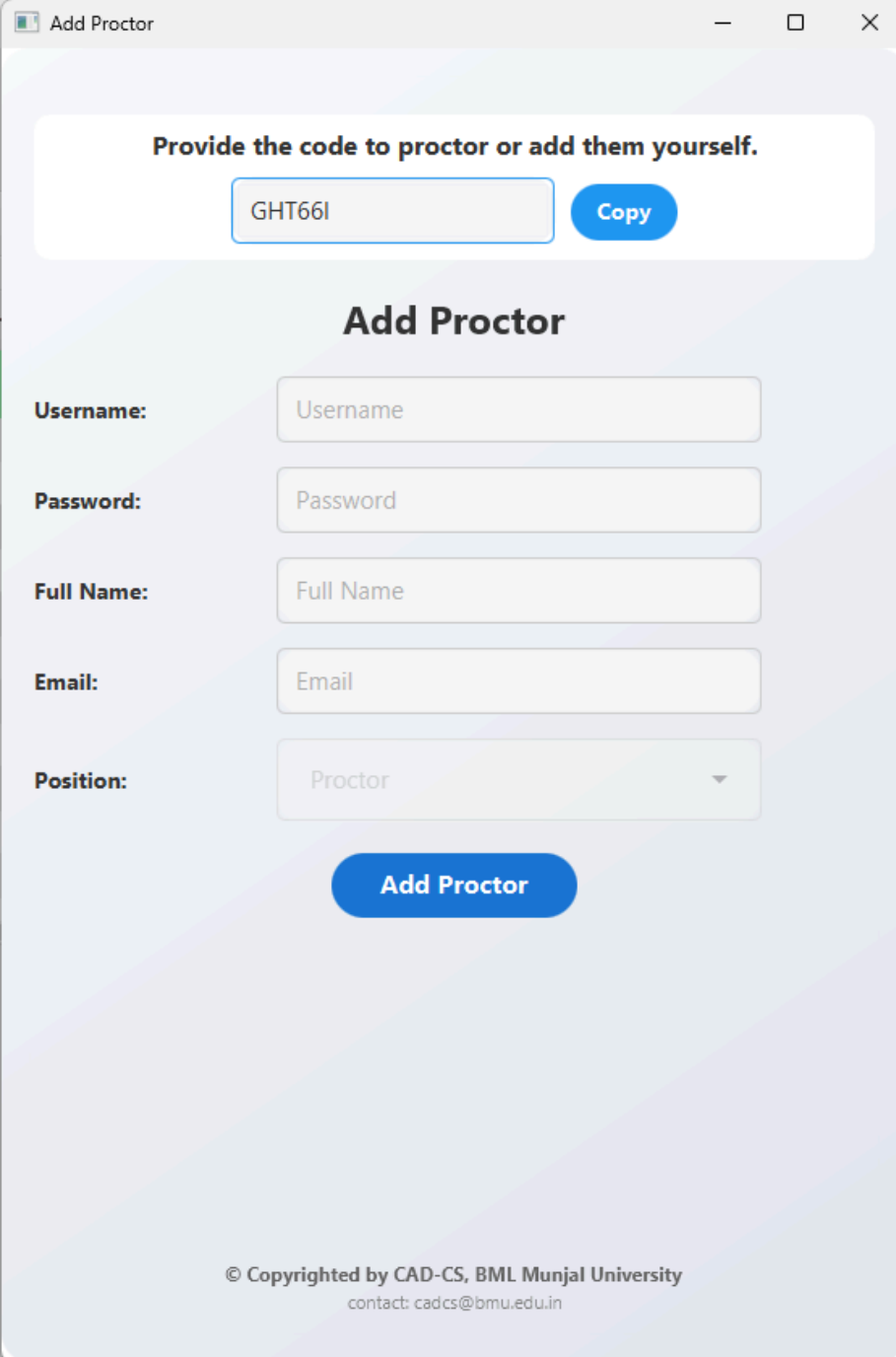
- **Student Performance**

- For details on Student Performance and Results refer to the Student Performance section of this manual.



Add Proctor

The **Add Proctor** screen can be accessed by clicking the **Add Proctor** button on the Instructor Dashboard. Once clicked, the following screen will appear:



Add Proctor

Provide the code to proctor or add them yourself.

GHT66I **Copy**

Add Proctor

Username:

Password:

Full Name:

Email:

Position:

Add Proctor

© Copyrighted by CAD-CS, BML Munjal University
contact: cadcs@bmu.edu.in

- The Instructor can register new Proctors as using one of the following two methods
 - **Registration Codes**
 - Provide Proctors with **Proctor registration codes** to allow them to self-register as an Instructor or Proctor.

Provide the code to proctor or add them yourself.

Copy

- **Add Proctor**
 - By filling the form screen and clicking the **Add Proctor** button Instructor can manually register new proctors.

Add Proctor

Username:

Password:

Full Name:

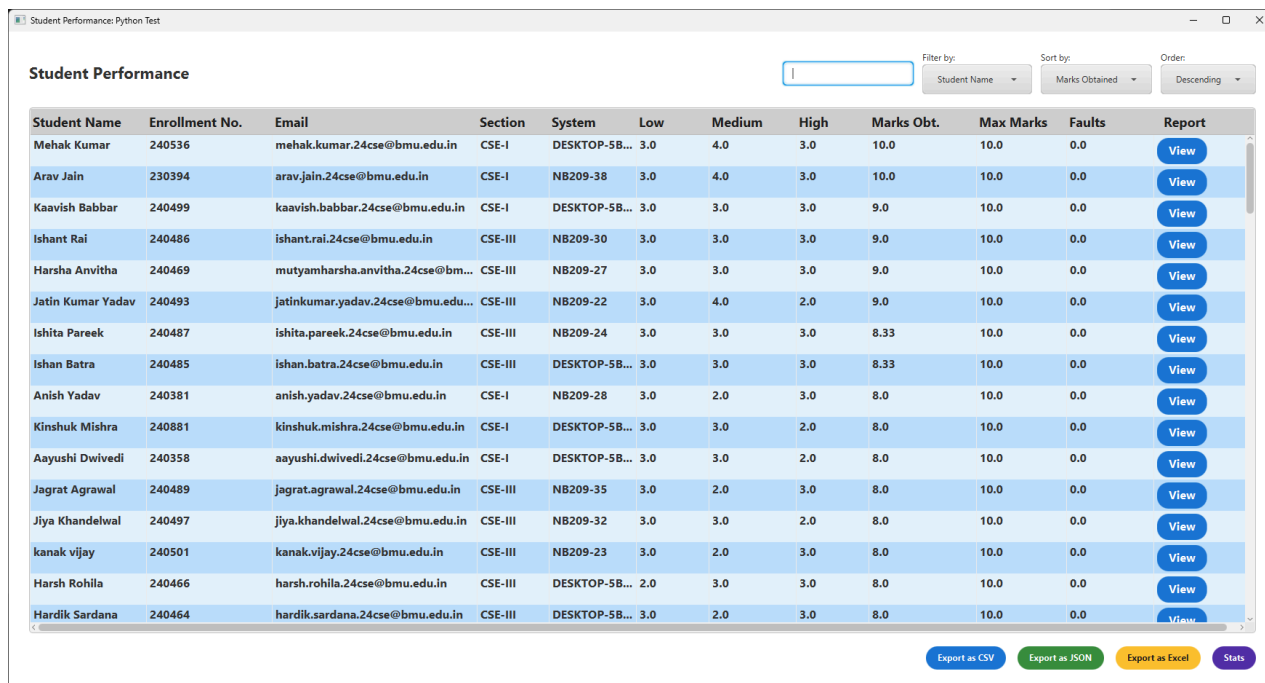
Email:

Position:

Add Proctor

Student Performance

The **Student Performance** screen can be accessed by clicking the **Student Performance** button on the Instructor Dashboard. Once clicked, the following screen will appear:



Student Performance

Filter by: Student Name Marks Obtained Order: Descending

Student Name	Enrollment No.	Email	Section	System	Low	Medium	High	Marks Obt.	Max Marks	Faults	Report
Mehak Kumar	240536	mehak.kumar.24cse@bmu.edu.in	CSE-I	DESKTOP-5B...	3.0	4.0	3.0	10.0	10.0	0.0	View
Arav Jain	230394	arav.jain.24cse@bmu.edu.in	CSE-I	NB209-38	3.0	4.0	3.0	10.0	10.0	0.0	View
Kaavish Babbar	240499	kaavish.babbar.24cse@bmu.edu.in	CSE-I	DESKTOP-5B...	3.0	3.0	3.0	9.0	10.0	0.0	View
Ishant Rai	240486	ishant.rai.24cse@bmu.edu.in	CSE-III	NB209-30	3.0	3.0	3.0	9.0	10.0	0.0	View
Harsha Anvitha	240469	mutyamharsha.anvitha.24cse@bm...	CSE-III	NB209-27	3.0	3.0	3.0	9.0	10.0	0.0	View
Jatin Kumar Yadav	240493	jatinkumar.yadav.24cse@bmu.edu...	CSE-III	NB209-22	3.0	4.0	2.0	9.0	10.0	0.0	View
Ishita Pareek	240487	ishita.pareek.24cse@bmu.edu.in	CSE-III	NB209-24	3.0	3.0	3.0	8.33	10.0	0.0	View
Ishan Batra	240485	ishan.batra.24cse@bmu.edu.in	CSE-III	DESKTOP-5B...	3.0	3.0	3.0	8.33	10.0	0.0	View
Anish Yadav	240381	anish.yadav.24cse@bmu.edu.in	CSE-I	NB209-28	3.0	2.0	3.0	8.0	10.0	0.0	View
Kinshuk Mishra	240881	kinshuk.mishra.24cse@bmu.edu.in	CSE-I	DESKTOP-5B...	3.0	3.0	2.0	8.0	10.0	0.0	View
Aayushi Dwivedi	240358	aayushi.dwivedi.24cse@bmu.edu.in	CSE-I	DESKTOP-5B...	3.0	3.0	2.0	8.0	10.0	0.0	View
Jagrat Agrawal	240489	jagrat.agrawal.24cse@bmu.edu.in	CSE-III	NB209-35	3.0	2.0	3.0	8.0	10.0	0.0	View
Jiya Khandelwal	240497	jiya.khandelwal.24cse@bmu.edu.in	CSE-III	NB209-32	3.0	3.0	2.0	8.0	10.0	0.0	View
Kanak Vijay	240501	kanak.vijay.24cse@bmu.edu.in	CSE-III	NB209-23	3.0	2.0	3.0	8.0	10.0	0.0	View
Harsh Rohila	240466	harsh.rohila.24cse@bmu.edu.in	CSE-III	DESKTOP-5B...	2.0	3.0	3.0	8.0	10.0	0.0	View
Hardik Sardana	240464	hardik.sardana.24cse@bmu.edu.in	CSE-III	DESKTOP-5B...	3.0	2.0	3.0	8.0	10.0	0.0	View

Export as CSV Export as JSON Export as Excel Stats

The table displays the following details for each student: **Name**, **Enrollment Number**, **Email Address**, **Section**, **System Name**, number of correct answers by **Low/Medium/High Difficulty**, **Marks Obtained**, **Maximum Marks**, and **Fullscreen Faults**.

Export as CSV

Export as JSON

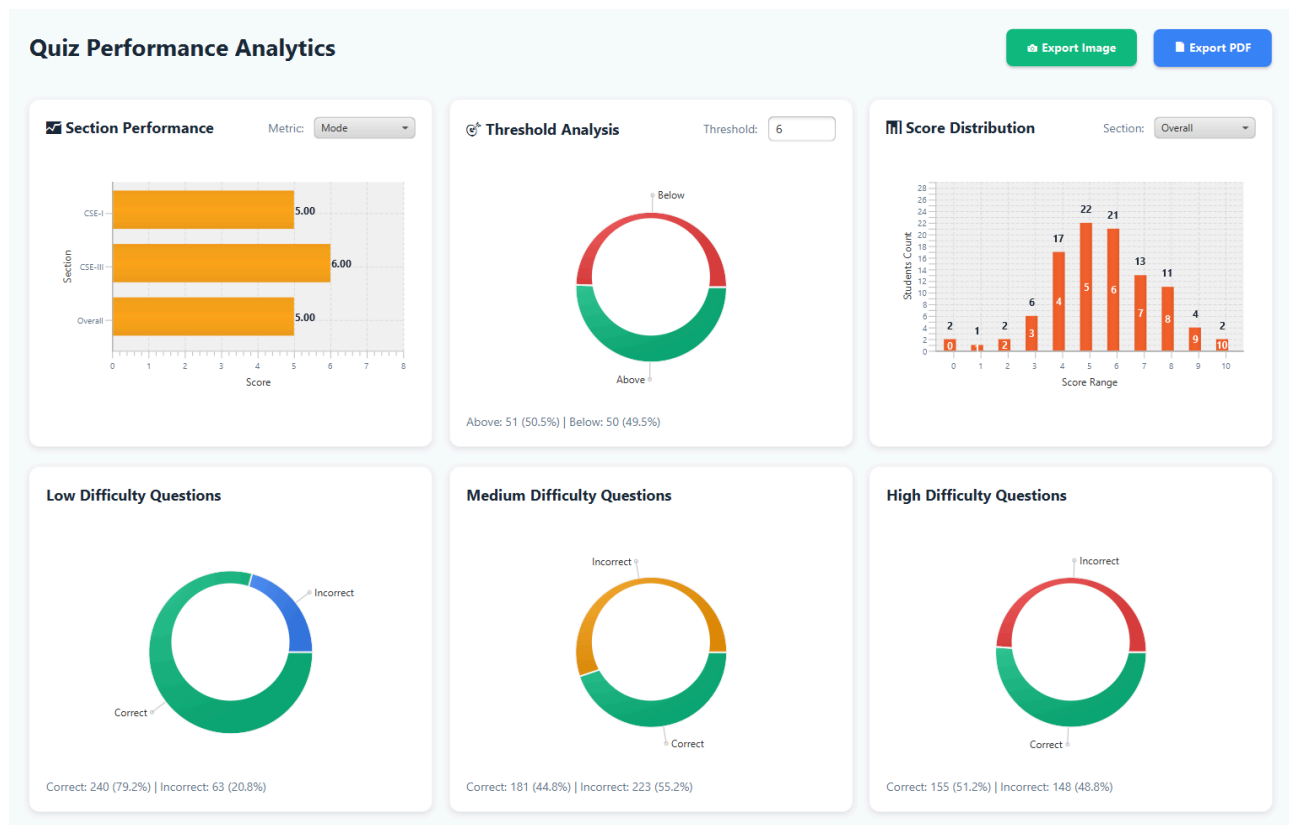
Export as Excel

This table can be exported in **CSV**, **JSON**, or **Excel** format.

Export as Excel


Stats

By clicking the **Stats** button located at the bottom-left of the screen, you can access **analytics based on student performance data**. These insights help visualize trends, identify strengths and weaknesses, and support data-driven decision-making.



The analytics can be exported as an **image** or **PDF** using the **Export Image** or **Export PDF** buttons.

 Export Image

 Export PDF

Detailed individual student results can be viewed by clicking the **View** button in the **Report** column.

Detailed Report: Jatin Kumar Yadav

Quiz Results

Marks Obtained: 9.00 / 10

Summary
Questions

Student Information

Name: Jatin Kumar Yadav
Enrollment: 240493
Section: CSE-III

Quiz Information

Quiz Name: Python Test
Subject: Python
Course: BTech_Sem-III CSE I, II, III, IV, V, VI, VII, VIII
Time Limit: 15 minutes

Results Summary

Total Score: 9.00 / 10
Percentage: 90.0%
Questions Attempted: 10

Difficulty-based Results

Correct LOW difficulty questions: 3 / 3
Correct MEDIUM difficulty questions: 4 / 4
Correct HIGH difficulty questions: 2 / 3

Export PDF
Send Email

The report can be saved as a **PDF** by clicking the **Export PDF** button.

Detailed Report: Jatin Kumar Yadav

Quiz Results

Marks Obtained: 9.00 / 10

Summary
Questions

Question 7

Score: 1.00

Difficulty: LOW

Which of the following libraries is used for numerical computations in Python?

Course Outcome & Bloom's Taxonomy: CO1 - L2

Summary: NA

Options:

☐ seaborn
☐ seaborn
☒ numpy
☐ Scikit

Question Navigation

L
M
M
H
L

1
2
3
4
5

M
L
H
H
M

6
7
8
9
10

Difficulty Legend

L low difficulty
M medium difficulty
H high difficulty

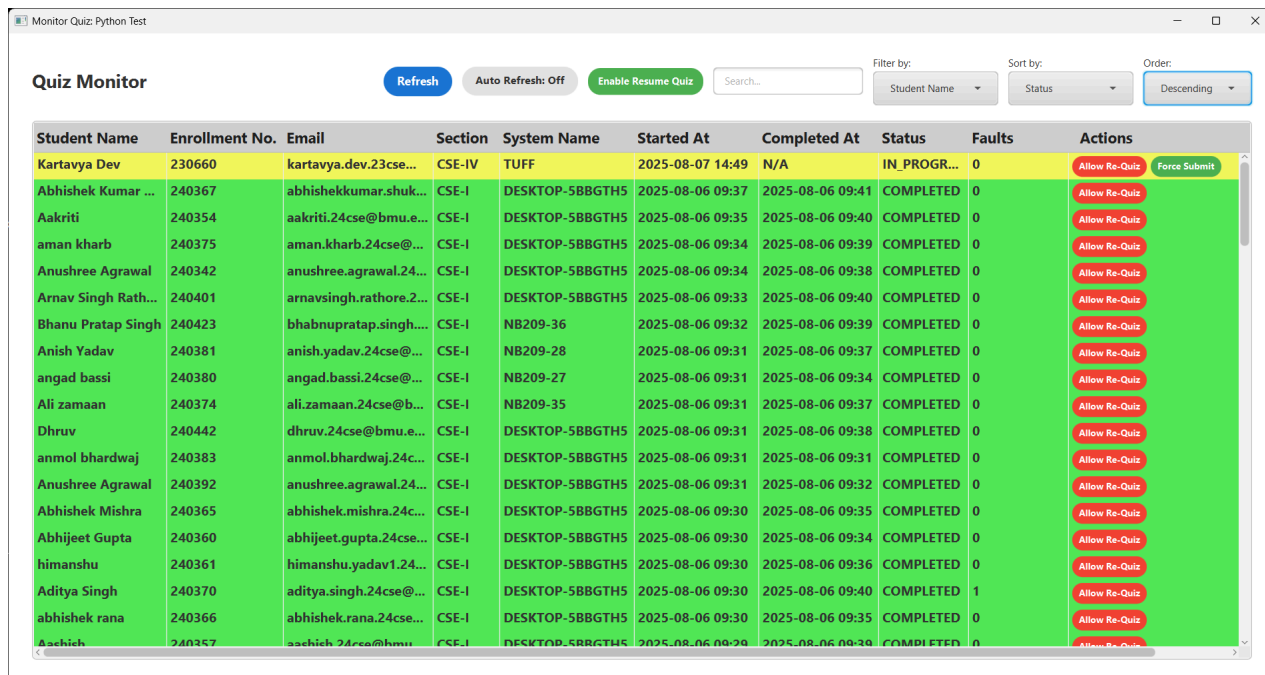
Previous
Next

Export PDF
Send Email

Monitor

The **Monitor** screen can be accessed by clicking the **Monitor** button on the Instructor Dashboard.

The **Monitor** screen allows to **actively supervise students during live quizzes**, ensuring academic integrity and quick response to any issues. Once clicked, the following screen will appear:



The screenshot shows the 'Monitor Quiz: Python Test' interface. It includes a 'Quiz Monitor' header with buttons for 'Refresh', 'Auto Refresh: Off', and 'Enable Resume Quiz'. There are also filters for 'Student Name', 'Status', and 'Order' (Descending). The main table displays student details and quiz progress.

Student Name	Enrollment No.	Email	Section	System Name	Started At	Completed At	Status	Faults	Actions
Kartavya Dev	230660	kartavya.dev.23cse...	CSE-IV	TUFF	2025-08-07 14:49	N/A	IN_PROGR...	0	Allow Re-Quiz, Force Submit
Abhishek Kumar ...	240367	abhishekkumar.shuk...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:37	2025-08-06 09:41	COMPLETED	0	Allow Re-Quiz
Aakriti	240354	aakriti.24cse@bmu.e...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:35	2025-08-06 09:40	COMPLETED	0	Allow Re-Quiz
aman kharb	240375	aman.kharb.24cse@...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:34	2025-08-06 09:39	COMPLETED	0	Allow Re-Quiz
Anushree Agrawal	240342	anushree.agrawal.24...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:34	2025-08-06 09:38	COMPLETED	0	Allow Re-Quiz
Arnav Singh Rath...	240401	arnavsingh.rathore.2...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:33	2025-08-06 09:40	COMPLETED	0	Allow Re-Quiz
Bhanu Pratap Singh	240423	bhabnupratap.singh...	CSE-I	NB209-36	2025-08-06 09:32	2025-08-06 09:39	COMPLETED	0	Allow Re-Quiz
Anish Yadav	240381	anish.yadav.24cse@...	CSE-I	NB209-28	2025-08-06 09:31	2025-08-06 09:37	COMPLETED	0	Allow Re-Quiz
angad bassi	240380	angad.bassi.24cse@...	CSE-I	NB209-27	2025-08-06 09:31	2025-08-06 09:34	COMPLETED	0	Allow Re-Quiz
Ali zamaan	240374	ali.zamaan.24cse@b...	CSE-I	NB209-35	2025-08-06 09:31	2025-08-06 09:37	COMPLETED	0	Allow Re-Quiz
Dhruv	240442	dhruv.24cse@bmu.e...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:31	2025-08-06 09:38	COMPLETED	0	Allow Re-Quiz
anmol bhardwaj	240383	anmol.bhardwaj.24c...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:31	2025-08-06 09:31	COMPLETED	0	Allow Re-Quiz
Anushree Agrawal	240392	anushree.agrawal.24...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:31	2025-08-06 09:32	COMPLETED	0	Allow Re-Quiz
Abhishek Mishra	240365	abhishek.mishra.24c...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:30	2025-08-06 09:35	COMPLETED	0	Allow Re-Quiz
Abhijeet Gupta	240360	abhijeet.gupta.24c...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:30	2025-08-06 09:34	COMPLETED	0	Allow Re-Quiz
himanshu	240361	himanshu.yadav1.24...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:30	2025-08-06 09:36	COMPLETED	0	Allow Re-Quiz
Aditya Singh	240370	aditya.singh.24cse@...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:30	2025-08-06 09:40	COMPLETED	1	Allow Re-Quiz
abhishek rana	240366	abhishek.rana.24cse...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:30	2025-08-06 09:35	COMPLETED	0	Allow Re-Quiz
Aashish	240357	aashish.24cse@bmu...	CSE-I	DESKTOP-5BBGTH5	2025-08-06 09:29	2025-08-06 09:39	COMPLETED	0	Allow Re-Quiz

- The table displays the following details for each student: **Name, Enrollment Number, Email Address, Section, System Name, Started At, Completed At, Status** and **Fullscreen Faults**.
- The table automatically refreshes every 5 seconds. This can be turned off by toggling **Auto Refresh to Off**. The table can also be manually refreshed using the **Refresh** button.
- If a student is caught cheating or using unfair means, their quiz can be forcefully terminated by clicking the **Force Submit** button in the **Actions** column. The marks will be calculated based on the options selected up to that point.
- In case of unforeseen circumstances such as a system crash or server failure, the **Resume Quiz** button can be toggled to **Enable**, allowing students to resume the quiz from the last saved point. (*Student responses and remaining time are synced every 5 seconds or whenever an option is selected.*)
- If a student is to be allowed a fresh reattempt, this can be done by clicking the **Allow Re-Quiz** button in the **Actions** column.



Contact & Support

If you encounter any issues while using PrashnaSetu or need assistance with setup, monitoring, or troubleshooting, please reach out through the following channels:

- **Primary Contact:** Center for Advanced Data and Computational Science BMU
- **Email:** cadcs@bmu.edu.in
- **Department:** CAD-CS, BML Munjal University
- **Secondary Contact:** Harshit Soni
- **Email:** harshit.soni.23cse@bmu.edu.in

Document Version: 1.0

Last Updated: July 2025

This document is proprietary to CAD-CS, BML Munjal University. Unauthorized distribution or reproduction is prohibited.
