

# PrashnaSetu

Think. Compete. Conquer.



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# 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)

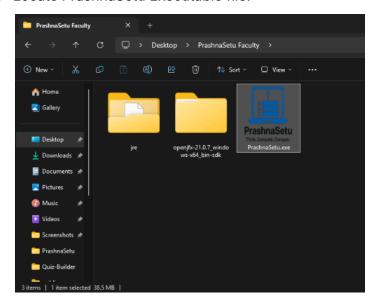
#### **Key Features:**

- 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.

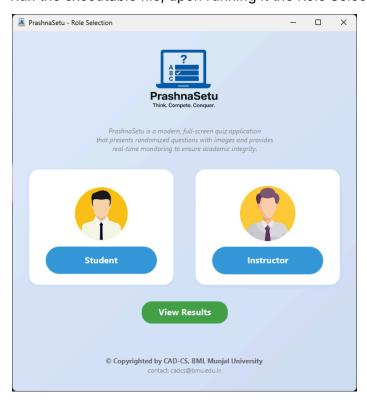


# **Starting the Application**

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

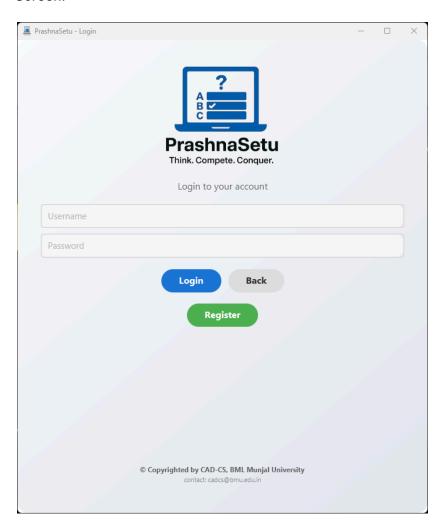


3. Run the executable file, upon running it the Role Selection screen will appear:



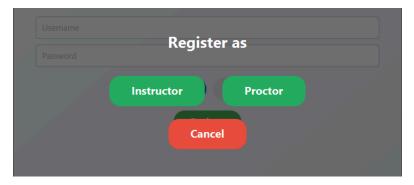


4. On the Role Selection Screen, select Instructor. This will redirect you to the Login Screen.

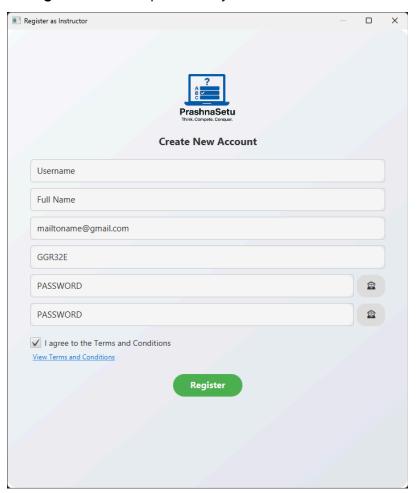




5. If a **Username** and **Password** have been provided by the admin, log in using those credentials. Alternatively, click **Registration** and select **Proctor**.

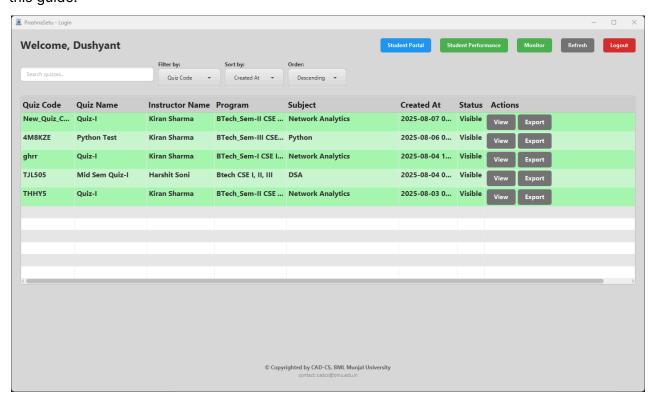


6. The **Registration Screen** will appear. Fill out the form with your desired credentials and the **registration code** provided by the admin to create an account.



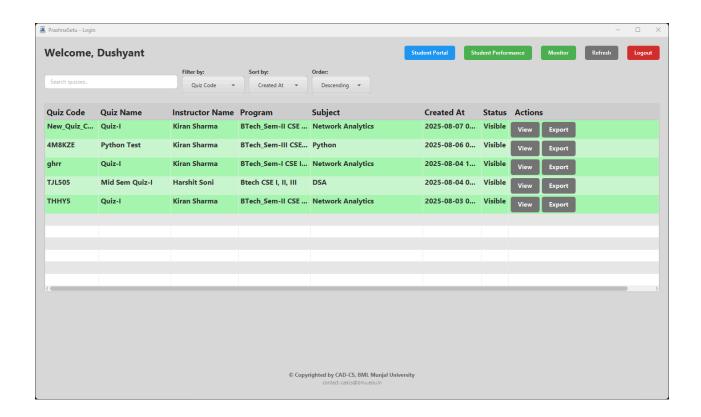


7. **Upon successful login, you'll be directed to the Proctor Dashboard.** For detailed information on its features and functionalities, refer to the *Proctor Dashboard* section of this guide.





## **Proctor Dashboard**



The **Proctor Dashboard** displays all quizzes that are currently toggled to **Visible**, organized in a tabular format for easy access and monitoring

Various general and quiz-specific functions can be accessed from the Proctor Dashboard.

- General functions include: Refresh, and Logout.
- Quiz-specific functions include: View Quiz, Export Quiz, Monitor, and Student Performance.



#### **General Functions**

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



- Logout
  - $\circ\quad$  By clicking the Logout button users can securely log out of their current session.



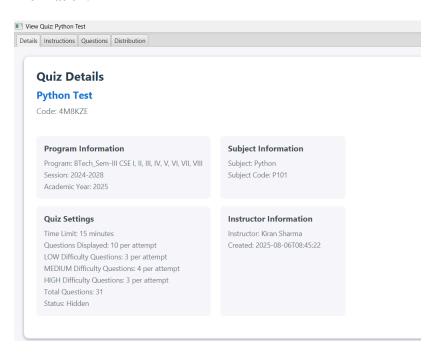


## **Quiz Specific Functions**

- 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.

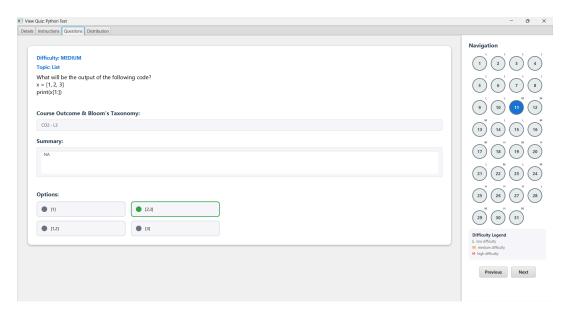


■ **Instructions:** Displays the instructions for the quiz.

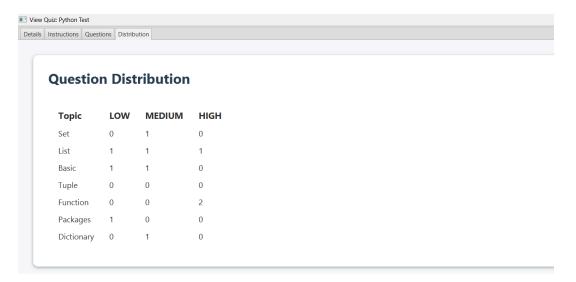




■ **Questions:** Displays all questions that are part of the quiz. (*Note: The total number of questions may be higher than the number shown to students, as a shuffled subpool is served per attempt.)* 



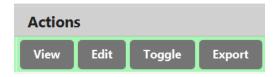
■ **Question Distribution:** Displays the number of questions served to the student, categorized by difficulty and topic.





#### • Export Quiz

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



#### • Monitor

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



#### • Student Performance

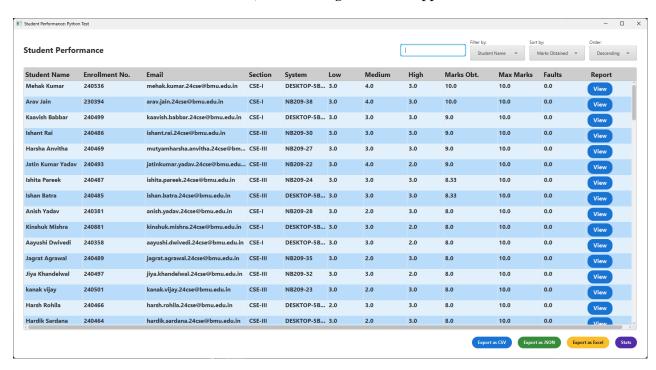
 For details on Student
 Performance and Results refer to the Student Performance section of this manual.





## **Student Performance**

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



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.

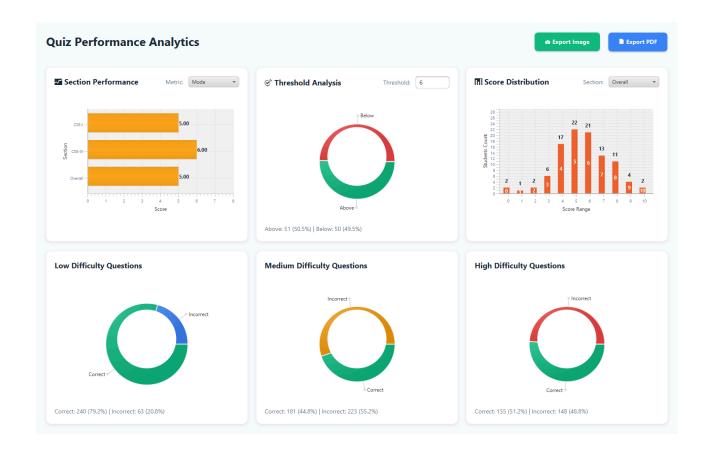


This table can be exported in CSV, JSON, or Excel format.





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.

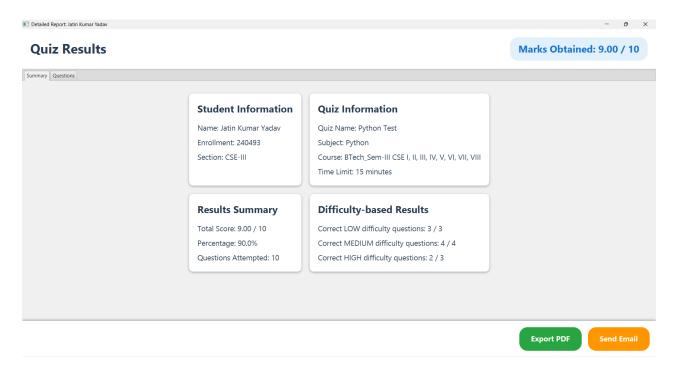


The analytics can be exported as an **image** or **PDF** using the **Export Image** or **Export PDF** buttons.

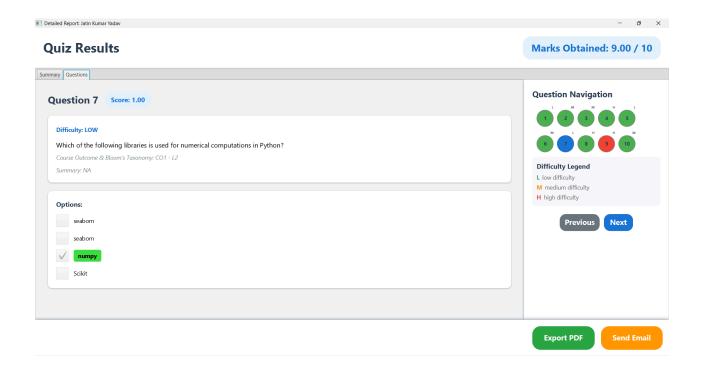




Detailed individual student results can be viewed by clicking the **View** button in the **Report** column.



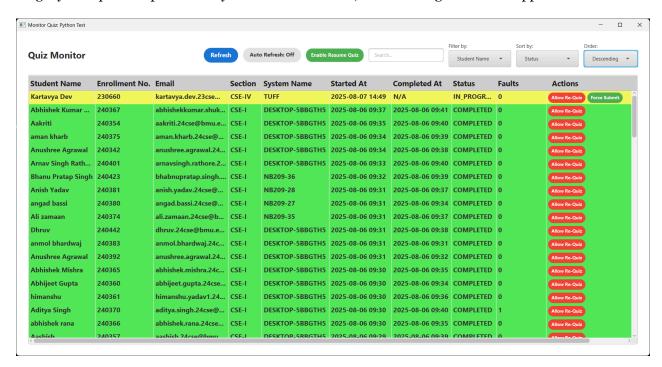
The report can be saved as a **PDF** by clicking the **Export PDF** button.





### **Monitor**

The **Monitor** screen can be accessed by clicking the **Monitor** button on the Proctor 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 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

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