

## System Requirements:

Users can log in using their registered email and password.

Professors can request a password reset if they forget their password.

Professors can receive a secure password reset link via email.

Professors can sign up by submitting their institutional email for approval.

Professors can verify their email using a confirmation code sent to their inbox.

Professors can securely update their password and regain account access.

Professors can access the sign-up page if they don't have an account.

Professors can log out to end their session securely.

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- Admins can register new users with roles (e.g., Admin, Professor).
- Admins can delete users.
- Admins can filter users by roles (Admin/Professor).
- Admins can view user activity history.

Admins can view a list of pending signup requests.

Admins can see the status of each request (Pending or Completed).

Admins receive real-time notifications for new signup requests.

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Admins can view all professors and their assigned categories.

Admins can edit category assignments for a specific professor.

Admins can assign new categories to a professor.

Admins can view all categories currently assigned to a professor.

Admins can remove a category from a professor.

- Professors can add new course.
  - Professors can edit courses.
  - Professors can delete courses.
  - Professors can filter courses by category.
  - Professors can add new Multiple-Choice Questions (MCQ).
  - Professors can add new True/False questions.
  - Professors can edit existing questions.
  - Professors can delete questions.
  - Professors can filter questions by type, difficulty, category, and course name.
  - Professors can import questions in bulk using standardized CSV or docx templates.
  - Professors can import questions in bulk using standardized docx templates.
  - Professors can download a question template (simple) for structured input.
  - Professors can download a question template ( blank) for structured input.
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- Professors can list all created exams.
- Professors can create manual exams by selecting specific questions.
- Professors can create auto-generated exams based on filters like type, difficulty, and category.
- Professors can preview exams before finalizing them.
- Professors can view detailed information about any exam, including included questions and metadata.
- Professors can delete exams that are no longer needed.
- Professors can export exams as PDF files for offline use or printing
- Professors can choose to include answers of questions when downloading or exporting exams.
- Professors can specify a number of copies to generate multiple versions of an exam, each containing the same questions but in a different order.

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- Professors can choose upload lecture material files (PDF format) for AI-based question generation.
  - Professors can select more than one lecture at the same time (multi-file selection).
  - Professors can generate questions based on semantic understanding of the uploaded lecture content.
  - Professors can define the number of questions to generate for each difficulty level (Easy, Medium, Hard).
  - Professors can specify the number of questions for each question type (MCQ or True/False).
  - Professors can initiate AI-assisted question generation from the uploaded lecture file.
  - Professors can view AI-generated questions grouped by type (e.g., MCQ, True/False).
  - Professors can review question text, available choices, and the correct answer for each question.
  - Professors can delete individual generated questions before saving.
  - Professors can save all reviewed and approved generated questions directly to the database.

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- Professors can upload multiple lectures (PDF files) for each course.
  - Professors can view all uploaded lectures in a structured list
  - Professors can open a lecture file to view its contents directly in the system
  - Professors can filter lectures by course
  - Professors can delete any uploaded lecture from the system.

