# 4. System Features

## 4.1. Cohort Creation and Student Invitation

### 4.1.1 Description and Priority

Enables faculty to create cohorts for assessments and invite students through email links. Priority: High.

### 4.1.2 Stimulus/Response Sequences

- Stimulus: Faculty selects "Create New Cohort" and provides cohort details.

- Response: System generates a unique invitation link for the cohort.

### 4.1.3 Functional Requirements

- REQ-1: The system should allow faculty to create cohorts by providing cohort details (e.g., name, course).

- REQ-2: Upon cohort creation, the system should generate a unique invitation link.

- REQ-3: Faculty should have the option to send invitation emails to students using the generated link.

- REQ-4: Students clicking the invitation link should be directed to join the respective cohort.

## 4.2. Exam Question Types

### 4.2.1 Description and Priority

Enables the creation of various question types, such as multiple-choice questions, text answers, and speech answers. Priority: Medium.

### 4.2.2 Stimulus/Response Sequences

- Stimulus: Faculty selects "Create New Assessment" and chooses question type.

- Response: System displays appropriate input fields based on the selected question type.

### 4.2.3 Functional Requirements

- REQ-5: The system should allow faculty to choose the question type during assessment creation.

- REQ-6: For multiple-choice questions, the system should provide options with the ability to mark the correct answer.

- REQ-7: For text answers, the system should display a text input field for students.

- REQ-8: For speech answers, the system should provide a microphone icon for students to record their response.

- REQ-9: The system should validate and store the selected answer type for each question.

## 4.3. Time Limitations for Question Paper Availability

### 4.3.1 Description and Priority

Limits the availability of the question paper to a specific time window. Priority: High.

### 4.3.2 Stimulus/Response Sequences

- Stimulus: Faculty sets the start and end times for question paper availability.

- Response: System calculates the availability window based on the specified times.

### 4.3.3 Functional Requirements

- REQ-10: The system should allow faculty to set the start and end times for question paper availability.

- REQ-11: When a student accesses the question paper, the system should start a countdown timer.

- REQ-12: The countdown timer should be synchronized with the availability window.

- REQ-13: If the student accesses the question paper close to the end time, the timer should reflect the remaining time.

## 4.4. Answer Evaluation and Automatic Marking

### 4.4.1 Description and Priority

Automatically evaluates students' answers and assigns marks based on faculty-provided responses. Priority: High.

### 4.4.2 Stimulus/Response Sequences

- Stimulus: Student submits an answer for evaluation.

- Response: System compares the student's answer with the correct answer and assigns marks.

### 4.4.3 Functional Requirements

- REQ-14: The system should compare student answers with corresponding faculty-provided answers.

- REQ-15: For each question type, the system should apply appropriate evaluation criteria (e.g., match, word similarity, speech recognition accuracy).

- REQ-16: Marks should be assigned automatically and accurately based on the comparison results.

## 4.5. Student Dashboard and Marks Publication

### 4.5.1 Description and Priority

Enables students to view their marks and provides a complaint dashboard. Priority: Medium.

### 4.5.2 Stimulus/Response Sequences

- Stimulus: Student accesses the dashboard after marks publication.

- Response: System displays the student's marks and options for raising complaints.

### 4.5.3 Functional Requirements

- REQ-17: The system should display students' marks after faculty publication.

- REQ-18: The dashboard should allow students to submit complaints about mark discrepancies.

- REQ-19: After a complaint is submitted, the system should notify the faculty for review.

## 4.6. Continuous Student Verification

### 4.6.1 Description and Priority

Verifies student identity using 3D images captured during sign-up. Priority: High.

### 4.6.2 Stimulus/Response Sequences

- Stimulus: Student starts an exam.

- Response: System activates the camera and microphone for image verification.

### 4.6.3 Functional Requirements

- REQ-20: The system should activate the camera and microphone during exams.

- REQ-21: The system should capture 3D images of the student during sign-up for identity verification.

- REQ-22: During exams, the system should match the live image with the stored 3D image to verify student identity.

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