**Software Requirement Specification**

**Project Definition: Pariksha - Exam Management System**

**Project Description & introduction**: Pariksha is the exam system which provides convenient environment to take and Schedule exams. Simple and Adaptable interface allows the system to make the exam process clear, transparent and error-free. Using the statistical reports university and students can measure and improve their performance.

Users Module**:**

* Admin
* Exam Setter
* Supervisor
* Student (Examinee)

General Functional Requirements

R.1 Login

Input: User login credentials.

Output: Confirmation of Authorization and redirect to dashboard.

Exception Flow: If credentials are not met, redirect to login page.

R.2 Register

Input: User Details.

Output: Confirmation of registration in the system.

Exception Flow: If user is already there, redirect to login page.

Functional Requirements of Admin

R.1 Manage Users

Description: Add, Update, Remove and View a user

R1.1 Add User

Input: User Details.

Output: Confirmation of user creation.

Exception Flow: If details are invalid. Validation message is show.

R1.2 Edit User

Input: Updated Details.

Output: Confirmation of user details update.

Exception Flow: If details are invalid. Validation message is show.

R1.3 Delete User

Input: User selection.

Output: Confirmation of user deletion.

R1.4 View User Details

Input: User selection.

Output: Details of user.

R.2 Manage Exam

Description: Block or Update Exam Schedules

R.2.1 Block Exam schedule.

Input: Scheduled exam selection.

Output: Confirmation of blocking exam schedule.

R.2.2Update Exam Schedule

Input: Updated schedule details for an exam.

Output: Confirmation of exam schedule update.

R.3 Manage User Role

R.3.1 Define User Role

Input: Selection of user role.

Output: Confirmation of user role update.

Exception Flow: If user role is not available, detailed message is thrown.

R.4 Manage Users

R.4.1 Add User

Input: User Details.

Output: Confirmation of user creation.

Exception Flow: If details are invalid. Validation message is show.

R.4.2 Edit User

Input: Updated Details.

Output: Confirmation of user details updating.

Exception Flow: If details are invalid. Validation message is show.

R.4.3 delete User

Input: User selection.

Output: Confirmation of user deletion.

R.4.4 View User Details

Input: User selection.

Output: Details of user.

Functional Requirements of Exam Setter

R.1 Manage Exams

R.1.1 Add Exam

Input: Exam details including questions, questions type, Correct Answers, Weight

Output: Confirmation

R.1.2 View Exams

Input: User Command

Output: List of exams for current user

R.1.3 Update Exam

Input: Exam details

Output: Confirmation

R.1.4 Delete Exam

Input: User Selection

Output: Confirmation of Deletion

R.2 Manage Exam Schedules

R.2.1 Schedule an Exam

Input: Exam and Schedule details

Output: Confirmation

R.2.2 Re-Schedule an Exam

Input: User Selection

Output: Confirmation

R.2.3 Delete Exam Schedule

Input: User Selection

Output: Confirmation

R.2.4 View Exam Schedules

Input: user Command

Output: List of Exam Schedules

R.2.5 Add Supervisor for the Schedule

Input: Supervisor List

Output: Confirmation and Notification to the concerned user for supervision

R.3 Manage Results

R.3.1 Add Result

Input: Exam and result details

Output: Confirmation

R.3.2 Update Result

Input: User Selection and details

Output: Confirmation

R.3.3 Delete Result

Input: User Selection

Output: Confirmation

R.3.4 View Result

Input: Exam details

Output: Result for the selected exams

R.3.5 Broadcast Result

Input: User Command

Output: Notification to all examinees

Description: Notification about the result will be sent to all examinees for that exam.

R.4 Manage Reports

R.4.1 Generate Report

Input: User Command

Output: Generated Report for examinees' performance and exam statistics.

R.4.2 View Report

Input: User Selection

Output: Report details for given Selection

R.4.3 Download Report

Input: User Selection

Output: Download Report

Functional Requirements of Supervisor

R.1 View supervision Schedules

Input: User Selection

Output: List of supervisions scheduled

R.2 Report Supervision Schedule

Input: User Selection

Output: Notification sent to Exam Setter.

R.3 Start Exam

Input: User Selection

Output: Secret key to start exam on examinee's machine

Description: Supervisor can get the secret key and pass it to the examinees to decrypt the exam.

R.4 Block an examinee

Input: User Selection

Output: Block the exam for given examinee

R.5 Report Misconduct

Input: User Selection

Output: Notification to admin and exam Setter

Functional Requirements of Examinee

R.1 Manage Exams

Description: Opt, View, Start Exam

R.1.1 View Exam Details.

Input: Exam Selection.

Output: Exam Details.

R.1.2 Opt-in an exam

Input: Selection of exam to opt-in.

Output: Opt-in sign.

R.1.3 Start Exam

Input: Exam initiation key.

Output: Question paper

R.1.4 End Exam

Input: Submission of answers.

Output: Confirmation of submission.

R.2 View profile.

Input: User Command.

Output: Profile of examinee.

R.3 Manage Answers.

R.3.1 Set answer.

Input: User selection.

Output: Confirmation for answer set.

R.3.2 Flag answer.

Input: User Command.

Output: Confirmation for answer flag.

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