# ExamSystem

## Definition

ExamSystem is a web based SAAS application that facilitates the users to learn and prepare for exams as well as to create online tests and exams. It basically provide the basic functionality to generate automatic and customized papers for all subjects according to the given boards criteria and education system established in the country.

## Project Summery

A registered user will be able to use the service of the application depending upon the profile role. There are three roles (admin, Teacher and Student)

Admin will be the super user of the application and will be able to create, remove and update the administrative task like accounts, subjects, papers, etc.

Teacher will be a user that will able to create, update and download the papers by using the paper generation process of different classes. These papers will be stored to the database with given criteria. Teacher will also be able to create custom papers based on the desired criteria and marks distribution.

Student will be a user that will be able to take tests, prepare themselves according to the given criteria and subjects by using the online quiz methods.

The system will provide the following facilities to registered users

1. Accounts and profile section to create and update profiles.
2. Create and download papers using the paper generation functionality of the system.
3. Create and set the setting of a user preference that will be used in future.
4. Create and show result of online quiz tests for preparation of exams
5. Save and analyze the data of attempted exams for better knowledge measurements
6. Subscription to users for new updates and events

The system will provide the following facilities to visitors

1. Free registration and accounts to visitors
2. Free soft copies of books and helping material
3. Updates and news of education system and boards policies
4. New upcoming features of the system

# Roles

The system will have the following set of roles

## Admin

Admin will be the super user of the system. And will have all the privileges and access of the system. Admin can create, suspend and deactivate the account of a user based on the activities. Admin can change the role of a user from User to Moderator and vice versa.

Admin can change and update the QnA bank and manage the overall activates of the system.

## Moderator

Moderator are the user with special privileges such as add or update QnA section, Answer the challenged question in the bank and do other activates assigned by the admin

## Users

Three user’s types

1. Admin
2. Teacher
3. Students

## Teacher

Teacher will do

1. Register as a teacher
2. Create and update profile
3. Create and update school data
4. Setup the classes and subject that teaches
5. Setup the preferences and setting for the papers
6. Setup the page attributes
7. Create and download papers
8. Download the rubrics and solutions along with the papers
9. View the created, updated and downloaded papers in the school profile.
10. Challenge or report the question or answer based on his best knowledge.
11. Request to update the question or answer
12. Create new and update question and answer in bank

## Student

Student will do

1. Register as a student
2. Create and update profile
3. Create and update school and class data
4. View the sections and subjects of being taught
5. Create and take test online of different subjects of his class
6. View the history of taken test on account section and report on the result of these tests.

The System will have following basic services to provide

1. Robust and easy to use interface
2. Generate paper and keys, rubrics by user
3. Save generated data to user account
4. Create and conduct online exam for the user
5. Save the compiled result in the account of the user