

BOARD EXAM MANAGEMENT SYSTEM

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ABSTRACT:

Our Project 'Board Exam Management System' is a computerized system used to store and retrieve information related to the board examination. The system allows the admin/receptionist to store and retrieve information such as student roll-no, booklet no, marks assigned, school name, id etc. Details of examiners like examiners name, school, subjects, qualification etc are included. An answer sheet is evaluated by one examiner but an examiner can evaluate many answer sheets each identified by answer book-id, student rollno, mark obtained etc. A school has many examiners as invigilators. A school is identified by school-id, school name etc.

The main purpose of this software is to reduce the manual/paperwork involved in examination management system and make it convenient for the admin/receptionist to store and retrieve data as and when required. The software supports the concept of modifications by admin and allows inserting, modifying, or deleting students or examiners data.

Purpose of the project

This project is developed mainly to simplify the manual work and allow smooth administration of the conduction of board exams. The purpose of the project is to computerize the administrative operations of board examination and to develop software that is user-friendly, simple, fast, and less expensive. It deals with the collection of student roll no, answer booklet no etc. Traditionally, it was done manually. The main function of the system is to enter and retrieve these details as and when required, and also to manipulate these details accordingly. It enables us to make the job easy.

- To improve the existing traditional system
- To develop a scalable system
- To be highly efficient in system management.

SCOPE

- To ensure proper storage of information.
- Make sure the program is simple and easy to use.
- To make this more effective.

Connection:

1. JSP

Java Server Pages is a simple yet powerful technology for creating and maintaining dynamic content web pages. It is based on the Java programming language. It can be thought of as an extension to Servlets because it provides more functionality than Servlets. A JSP page consists of HTML tags and JSP tags. The JSP pages are easier to maintain than Servlets because we can separate designing and development. We require a JDBC connection between the front end and back end components to write to the database and fetch the required data.

2. PostgreSQL(backend)

PostgreSQL is a powerful, open-source object-relational database system with over 30 years of active development that has earned it a strong reputation for reliability, feature robustness, and performance.

Functional Requirements of the System

The functional requirements of this project are:

The project allows login of authorities: The authorities has a set of functionalities described as:

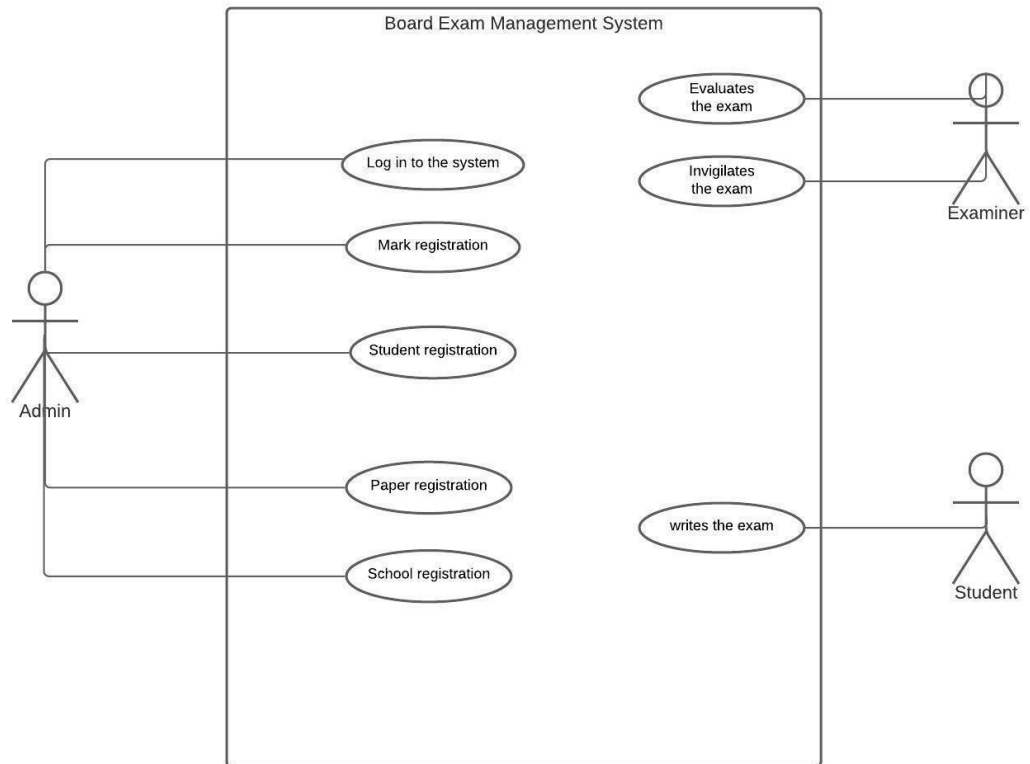
- > Can log in to the system.
- > Can add or modify Student details in the database.
- > Can add or modify School details in the database.
- > Can add or modify examiners details in the database.

Actors:

- Student - A student is a person who studying in order to attain knowledge.
- Admin - The one who monitors the system.
- Examiner - The person who evaluates the exam.

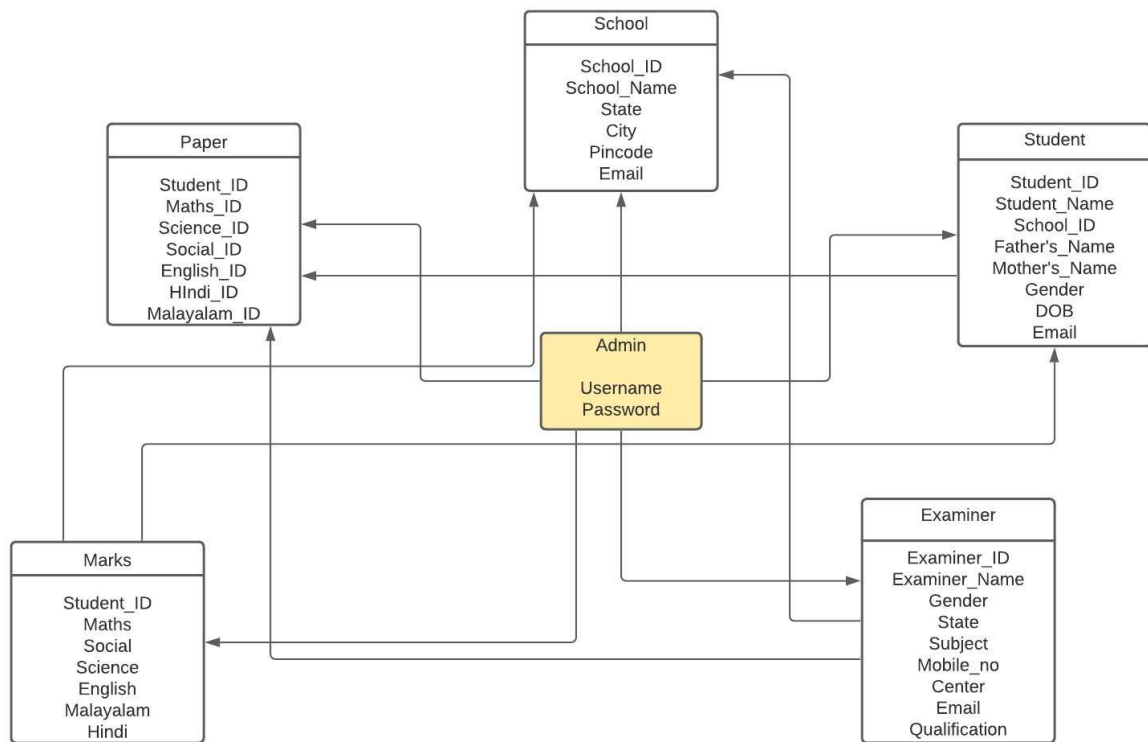
USE CASE DIAGRAM:

A Use Case Diagram is a representation of a user's interaction with the system.



CLASS DIAGRAM:

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Board Exam Management System



UI Design:

Login

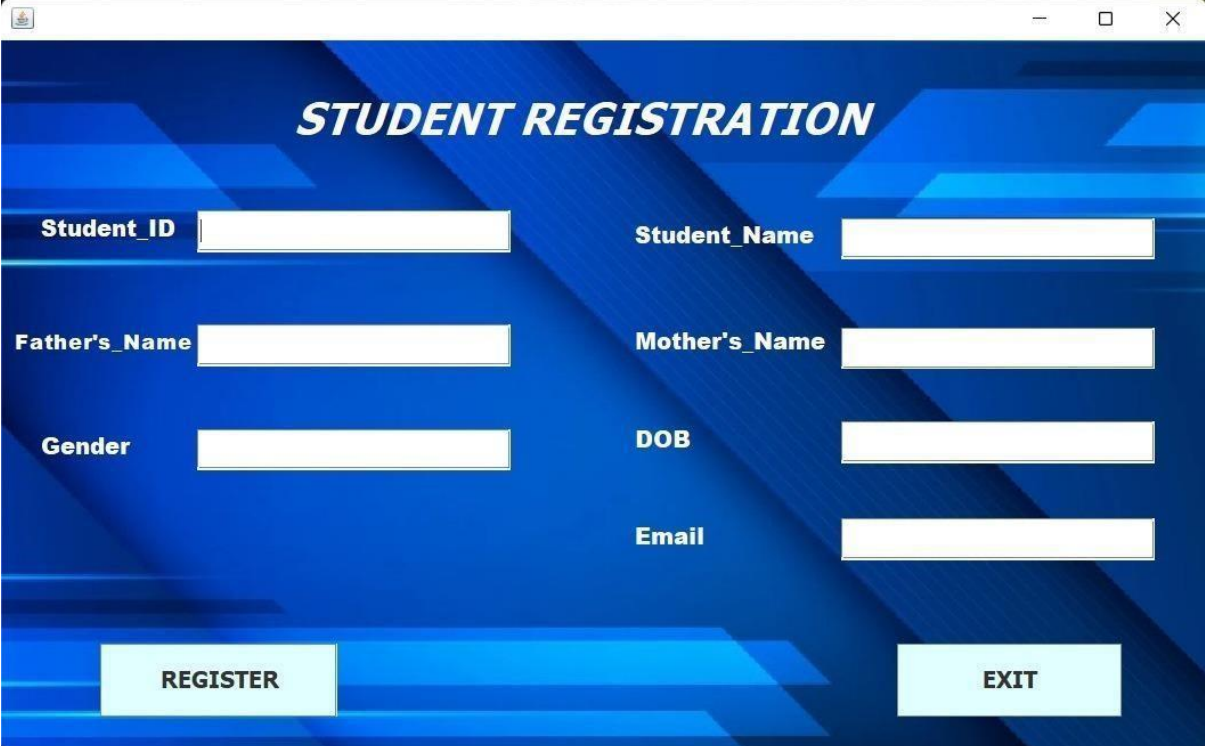
UI Design for the Login screen of the Board Exam Management System. The screen features a blue background with a geometric pattern. The title "BOARD EXAM MANAGEMENT SYSTEM" is displayed at the top in white. Below it, the word "LOGIN" is centered in white. The form includes two input fields: "USERNAME" and "PASSWORD", both with white text and white borders. At the bottom, there are two buttons: "LOGIN" and "EXIT", both with white text and light blue backgrounds.

Registration



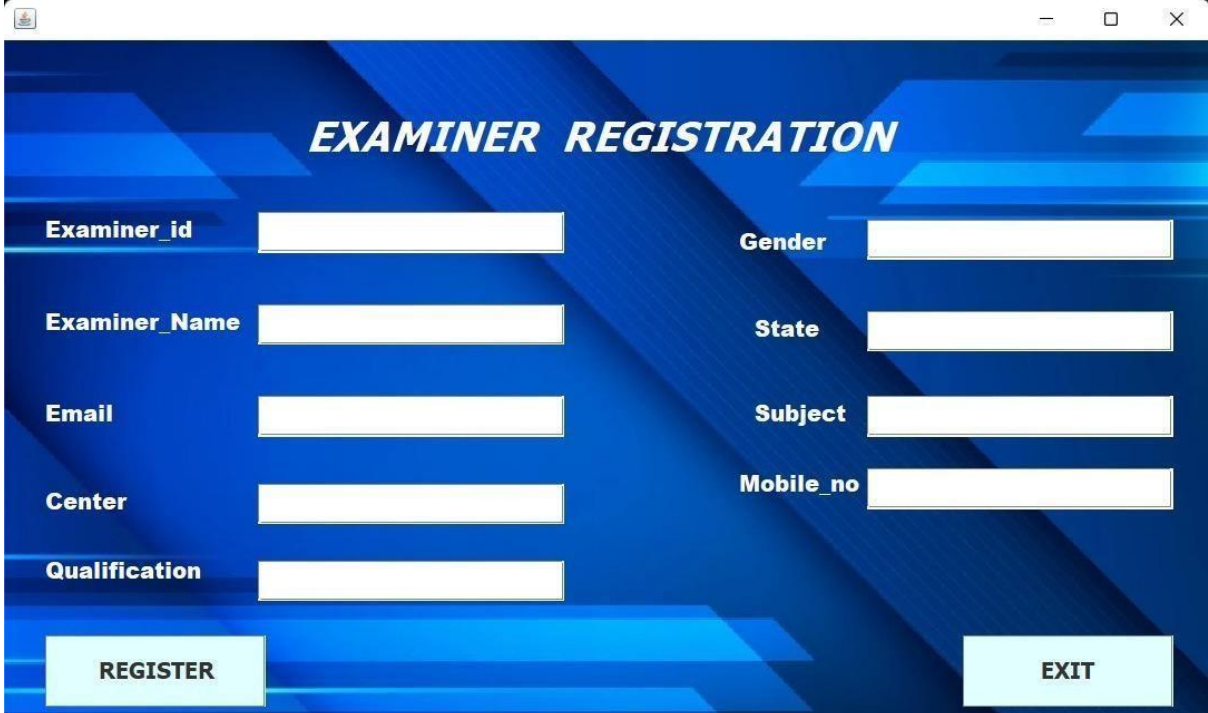
The screenshot shows a window titled "BOARD EXAM MANAGEMENT SYSTEM" with a subtitle "REGISTRATION". The background is a dark blue gradient with light blue geometric patterns. There are five white rectangular buttons with black text: "Student Registration" (top left), "Examiner Registration" (top right), "School Registration" (bottom left), "Marks Registration" (bottom right), and "EXIT" (center bottom). The window has standard OS controls (minimize, maximize, close) in the top right corner.

Student Registration



The screenshot shows a window titled "STUDENT REGISTRATION". The background is a dark blue gradient with light blue geometric patterns. The form contains six input fields with labels: "Student_ID", "Student_Name", "Father's_Name", "Mother's_Name", "Gender", and "DOB". There are two buttons at the bottom: "REGISTER" (left) and "EXIT" (right). The window has standard OS controls (minimize, maximize, close) in the top right corner.


Examiner Registration



EXAMINER REGISTRATION

Examiner_id	<input type="text"/>	Gender	<input type="text"/>
Examiner_Name	<input type="text"/>	State	<input type="text"/>
Email	<input type="text"/>	Subject	<input type="text"/>
Center	<input type="text"/>	Mobile_no	<input type="text"/>
Qualification	<input type="text"/>		

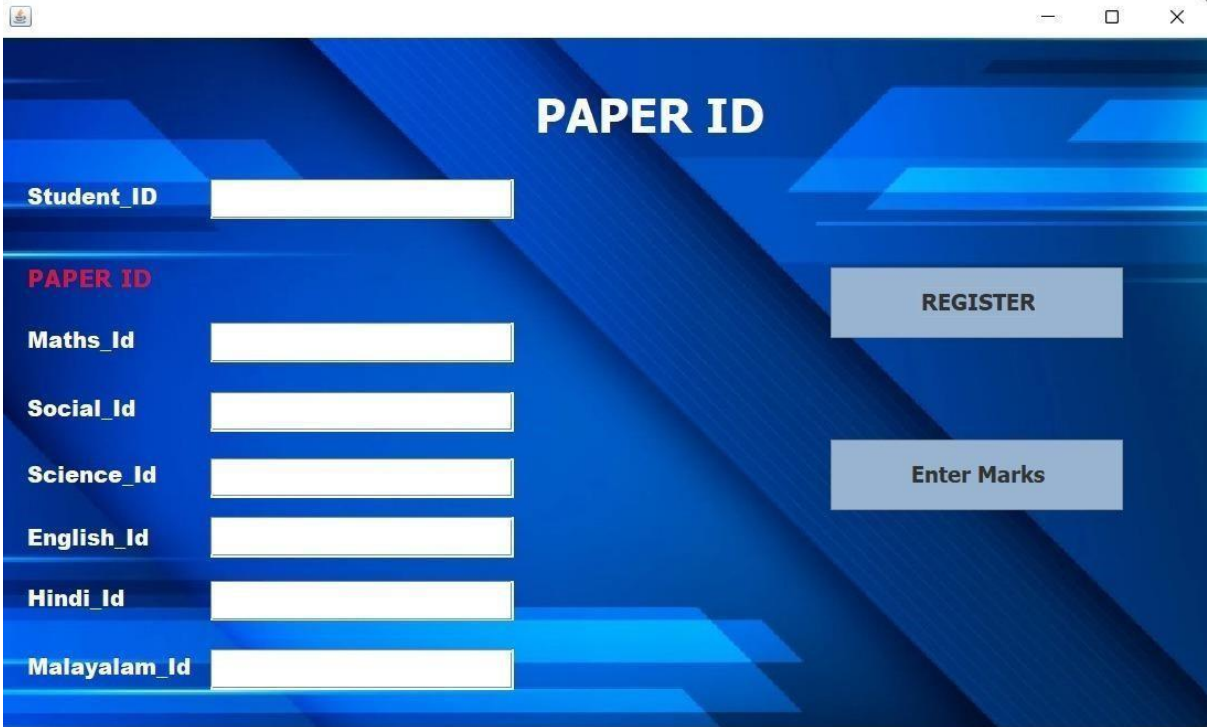
School registration



SCHOOL REGISTRATION

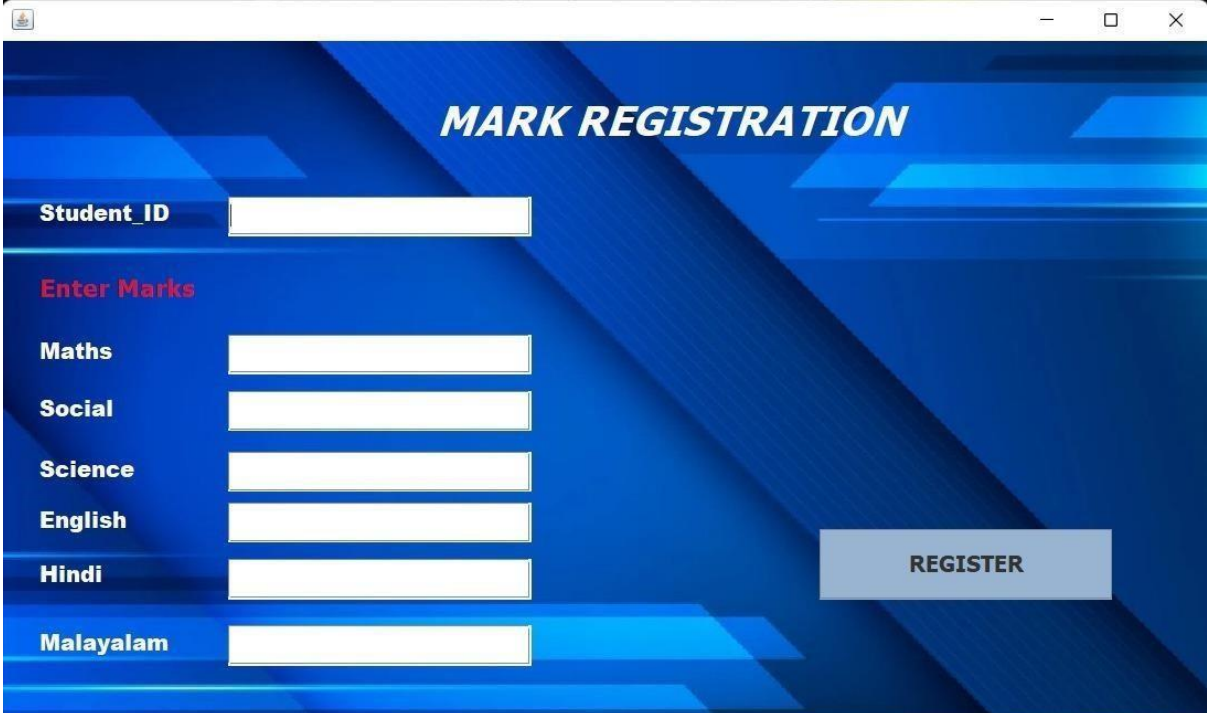
School_Id	<input type="text"/>	School Name	<input type="text"/>
State	<input type="text"/>	City	<input type="text"/>
E-mail	<input type="text"/>	Pincode	<input type="text"/>

Paper_id registration



A screenshot of a web application window titled "PAPER ID". The window has a blue background with a geometric pattern. On the left, there is a form with the following fields: "Student_ID" (a single-line text input), "PAPER ID" (a red heading), "Maths_Id" (a single-line text input), "Social_Id" (a single-line text input), "Science_Id" (a single-line text input), "English_Id" (a single-line text input), "Hindi_Id" (a single-line text input), and "Malayalam_Id" (a single-line text input). On the right, there are two buttons: "REGISTER" (a light blue button) and "Enter Marks" (a light blue button).

Mark registration



A screenshot of a web application window titled "MARK REGISTRATION". The window has a blue background with a geometric pattern. On the left, there is a form with the following fields: "Student_ID" (a single-line text input), "Enter Marks" (a red heading), "Maths" (a single-line text input), "Social" (a single-line text input), "Science" (a single-line text input), "English" (a single-line text input), "Hindi" (a single-line text input), and "Malayalam" (a single-line text input). On the right, there is a button: "REGISTER" (a light blue button).