

School Management System

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Description

- The School Management System is a simple web-based application in Java to assist the Admin/Principal. It helps to maintain all the classes, students and teachers records.
- The whole system was developed using Spring Boot in the IntelliJ IDE. The system does use MySQL as database support.
- Admins can log-in and add a new teacher or student record to the system using Spring Security Authentication .
- Admins can manage ,search and filter all the teacher and student records .
- Admins can view the teacher and student records by using the thyme leaf templates.

Features

- Admins can sign up for an account and log in to School Management application.
- Admins can add, view and manage classes to the School.
- Admins can browse students information and manage student details.
- Admins can enroll a student to the class.
- Admins can add, view and manage teacher personal details.

Planning - User Stories

- Only Admins can log-in.
- As a Admin, I can search student records based on a class.
- As a Admin, I can manage all student records in the student module.
- As a Admin, I can search, filter and sort the student records.
- As a Admin, I can manage all teacher records in the teacher module.
- As a Admin, I can search, filter and sort the teacher records.

Planning - Database

Model classes/Tables

- User
- Role
- Classes
- Student
- Teacher
- Personal-details

Technology Stack

- Java
- Spring Boot
- Spring Security
- Thyme leaf
- Bootstrap
- MySQL

Demo

What I/We Learned

- How to use Spring security for Authentication.
- Data table (Table plug-in for jQuery) to enable pagination and sorting.
- Bootstrap to build fast and responsive screens.

What's Next

- Add a teacher module and student module.
- login for teachers and students by role based to access the related forms