# **Examination WEB App Assignment**

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Github Link: https://github.com/1998harshamin1998/VWITS2020Assignments

# Packages:

## 1) com.examination.models

This package contains all the model classes such as the users, marks, Questions respectively. These provide the data models.

# 2) com.examination.controller

This package contains the classes for the crud operations for the respective data models, along with authenticator class which provides login and registration functions for a user

## 3) com.examination.database

This package contains the class MyDBConnection which is used for database connectivity and provides functions to get Statements and prepared statements.

#### 4) com.examination.servlets

This Package contains the servlets files for the entire Web App

## 5) com.examination.customTags

This package contains the custom jsp tag classes to display all questions, marks of all students, and to display questions for exams.

# JSP Files:

#### 1) index.jsp

This file is the first page of the webapp it has login and registration forms,

Session is checked here if not available the user has to login first else redirected to appropriate home screen. When either of the form is submitted the data is sent to AuthenticatorServlet where depending on the form submitted either a new user is registered or a session for the logged in user is created and further redirected respectively.

#### 2) Teacher.jsp

This is the home page for the teachers. Once the session is validated.

From this page a teacher can add / update questions for the exam, see all questions, see marks of all the students and update their profile.

Except profile updation all the forms and operations are handled by TeacherServlet and profile updation is handled by ProfileServlet

#### 3) Student.jsp

This is the home page for a student. Similar to the other pages the session is validated else redirect to the appropriate page.

Through this page a student can view his/her marks and also opt to give exam which will take them to exam page .Student can also update profile which is handled by ProfileServlet.

#### 4) Exam.jsp

This is the exam page which is accessible from student page and like any page it is also session validated.

From here the student can start the exam.

Once the exam is submitted it is processed by the ResultServlet where the result is calculated and updated in the database. Only the latest score is saved the previous scores are discarded.





















