

PROJECT TOPIC: CODE JUDGE

Project Group Members:

1. Gaurav Rajput (22 / 131500117)
2. Divyank Pahlazani (18 / 131500107)
3. Himanshu Nigam (18 / 131500130)

Project Supervisor: Mr. Shashi Shekhar, Assistant Professor.

About the Project:

Code Judge is a web portal where online coding examinations can be conducted or the user can enhance the skills by attempting the coding challenges. There will be mainly two users: Examiner, who can conduct the test on the portal and Students, who will attempt them. On submitting, the code will be executed on the server and a Leaders Board will be displayed to the student as well as to the examiner. For every program there will be certain test cases that the student should pass in order to clear the test. The Leader Board will have names of students in order of their marks and completion time. Examiner will be able to see the percentage of similarity in the code using SOCO module. The SOCO module will detect the similarity between the source code submitted by the students.

Motivation:

Whenever coding examinations are conducted, the students are required to write a program and the examiner needs to check the program of each and every student individually. So, Code Judge will allow the examiner the flexibility to conduct tests, the Code Judge will examine all the submitted codes by students and check all at once whose program has been executed and grade them accordingly, this will save the time and extra work of the examiner. Many times students copy and paste the programs therefore Code Judge will also provide the functionality for preventing copying and pasting any pre written programming code, this ensures that students write the program with their own knowledge.

Project Planning:

MODULES	TIME DURATION
Front End Module	2 weeks
Compilation Module	4 months
Test Case Module	3 weeks
Result Module	3 weeks
SOCO Module	2 months

Tools required:

➤ **Hardware Requirements:**

1. Processor – Intel Core 2 Duo (1.2 GHz) or higher
2. RAM – 2GB (minimum) or more
3. Hard Disk Space – 5 GB

➤ **Software Requirements:**

1. Tools & Technologies – NetBeans, Html, CSS, JS, Java
2. OS – Windows 7 or above
3. Apache Tomcat sever (or any Server supporting java)
4. Linux server at the backend.

Signature of Project Guide: _____