

Delhi Technological University

Software Engineering (SE-202)

Coding Monitoring System

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Abstract

Competitive programming is something which probably every student of CSE background is associated with. For this, there are many websites available where they regularly host coding competitions and also have tremendous number of questions of all the levels: easy, medium and hard.

Some of the examples of these websites are: CodeChef, Codeforces, Hackerrank, LeetCode, InterviewBit, Spoj and many more.

All these websites despite of having a good pool of questions and technicians, lack a proper dashboard where they can view their complete statistics of their progress.

For example, there isn’t any way for coder to view how many questions he/she did on a particular day, or how in a month or in an year, there isn’t any way to assess and compare the rating changes and overall progress with those of your friends.

Objectives

In this project, we will make a website which will serve as a dashboard for to view his/her performance. For now the program will have features for codeforces and codechef. There will be 2 types of users in our program, one who comes as guest. These users will be temporary and there data will not be stored in the database. These users will get only limited features. The second type of users will be the ones who log in our website. The data will be stored and all the additional functionalities will be available to these users.

Hardware and software requirements

Hardware: Any laptop/desktop/mobile

Software: VS Code (as code editor), GitHub (code sharing platform), NodeJS (used for backend server), MongoDB (database), Web Browser

Language Used: HTML, CSS, JavaScript, Materialize CSS, MongoDB, NodeJS

Proposed Metho