Project: Online Judge

# Features:

1. User can Create, Edit, Delete own account.
2. User can search and view other’s account, add them to favorite list.
3. User can login using Google or Facebook account.
4. User can view and solve previous problems.
5. User can Register for upcoming Contests or Running Contests if allowed.
6. Handle color must be changed according to user rating.
7. Realtime standing, status and total solve of each problem must be available.
8. Notification for announcements during contest.
9. User can code on embedded IDE (only text / ide mode if possible) or upload external files.
10. User can view problem separately, or all problem in a single page or download all problem on a single pdf file.
11. During contest, Problem list, submission page, status, standing, my submission link should be easily accessible (One click).
12. During contest, Text written on the IDE should be auto saved and If not successfully submitted the last saved text will appear on the IDE.
13. Plagiarism Checking must be included
14. Strong rating calculating algorithm must be implemented.
15. Firstly, compilers of some common languages should be added (like. C, C++, Java, Python 2, Python 3).
16. The judging system will show only the vertexes of the status of the submission (AC, WA, TLE, MLE, CE etc.)
17. If partial points enabled, judging system must show partial results.
18. Each problem should have exact time limit, memory limit.
19. Standing will be ACM ICPC style, number of problems solved vs total time penalty from the starting of the contest to the last accepted submission.
20. 10-30 minutes of time penalty should be added for each unsuccessful submission which problem have been solved by the user later. The amount of the penalty for unsuccessful submission will be set by the contest organizer.
21. Initially contest and problem can be added from admin panel.
22. Problem setter will have to provide main acceptable solution, test case generator or test cases (max 10-20), and a validator code which will test the outputs of the submitted code is correct or not.
23. Tutorial section editable in admin panel, accessible to all.
24. Forum to discuss various topics
25. QA, contact, help and more supportive tools.
26. One session for one account like CodeChef.