Online Judge

Documentation

**Judge App**

Models

1. Problem
   1. Name
   2. Description- problem statement
   3. Example- example explanation
   4. Input- example input
   5. Output- example output
   6. Difficulty- problem difficulty tag
2. Test
   1. Problem – foreign key to problem
   2. Input – test input
   3. Output – expected output for input
3. Solution
   1. User – foreign key to user
   2. Problem - foreign key to problem
   3. Language – programming language in which problem is submitted
   4. Code\_file – submission code
   5. Verdict – verdict for the submission
   6. Timsptamp – time of submission

View functions

1. Index- serves to the home page
2. Problems - fetch all the problems from the data base and renders problems.html
3. Problem(id) –
   1. If user is authenticated then fetch the particular problem with given problem id and renders problem.html
   2. If user is not authenticated then redirects to login page
4. Submit(pid) –
   1. process the code submission that is done by user for problem with id=pid
   2. uses helper.runcode and helper.getVerdict
5. result (not in use) – renders submit.html to show the verdict to submission
6. Submissions – show last 10 submissions of user requesting
7. Login\_request – renders to login.html page
8. Login\_check – authenticate the user with given credentials
9. Logout – logout the user
10. Register\_request - renders to register.html page
11. Register\_verify – verify the credentials and create user if everything is ok