

Introduction to Database Systems

FirstToSolve

Database Proposal Team Number: #4

Team Members:

- Ahmed Ashraf Hamdy 1 - 2
- Ahmed Mohamed Mahboub 1 - 7
- Adel Mohamed Abd-Elhamid 1 - 33
- Abdallah Ahmed Hemdan 2 - 1

Contact info:

1. aashrafh31@gmail.com

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Description:

FirstToSolve is a CP (competitive programming) management system which dedicate in managing activates of CP community members and like weekly contests, trainings, competitions, problemsets, blogs, groups of training, official competitions.

Each user will sign up in the website will get the access to submit, make team, join a group, etc. The judge system and information about the problemsets will depend on API's of online judges like Codeforces and Online Sphere.

Users:

1. Contestant
2. Admin
3. Assistant
4. Guest
5. Organization

Functionalities:

- **Admin:**
 1. Add assistant.
 2. Drop assistant.
 3. Add contest.
 4. Remove contest.
 5. Ban contestant.

6. Remove Group.
7. Remove Blog.
8. Write an announcement (blog).

- **Assistant:**

1. Add contest.
2. Assign problemsetter to a contest.
3. Remove contest.
4. Remove blog.
5. Write an announcement.

- **Organization:**

1. Announce training.
2. Assign trainer to training.
3. Invite trainee.
4. Remove trainee.
5. Create Group (Without rate constraint).

- **Contestant:**

1. Un/Register in contest.
2. Write blog.
3. Up/Down vote a blog.
4. Join training.
5. Create Team.

Entities:

1. Contestant.
2. Blog.
3. Group.
4. Admin.
5. Assistant.
6. Contest.
7. Team.
8. Problemset.
9. Training.
10. Organization.