Gymkhana Nominations Portal

Summer Project - Programming Club

Aniket Pandey

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1 Acknowledgement

I would like to thank Programming Club for giving me the opportunity to create the portal and learn about backend web development in Django.

2 Repository

The project repository can be found **here** and the live project is hosted **here**.

2.1 Mentors

- Kunal Kapila
- Yash Srivastav
- Pratham Verma

3 Description

The main aim of the project is to develop a portal through which admins can release nominations for their child posts. The target group can apply for the same. The portal can keep track of each and every process the application goes through, e.g release, submission, approval from higher authority, interview remarks, final selection and increment in power if selected. The detailed documentation can be found *here*.

4 Timeline

4.1 Week 1

1. We started off by creating a simple web-app about a library through which normal users can issue a book and depending on the availability, librarian (aka admin) can either reject or accept the issuance. This was meant as an exercise for the actual project, and to get familiar with django.

2. Learnt about custom backends and integrated IIT K user authentication by overriding the default authentication. So that users can login through their CC id. However, we were not able to fetch their profile data, e.g Name, Roll No, etc.

3. Decided to implement Model Forms and Generic Views in the code. This decision led to easy editing and adding of user profile (fixed #2).

4. Extended user model by importing current user and adding few required fields. Final code till now looks clean and user friendly.

4.2 Week 2

1. After creating the basic template, we implemented *Dynamic Forms* as a separate app. It is possible to add various kind of questions in the form. After the form was finished, we integrated it into the nominations app.

2. Created the topmost(independent) Club Model. Interlinked Users, Clubs and Posts. Now user can create multiple post nominations within a particular club.

3. Created a filter for User Profile so that while releasing a nomination, it is possible to specify the target group (e.g users who are supposed to apply for the post). It remains to combine Forms and Filters for a nomination request.