DB Project: RePlace

Members

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Introduction and Goals

Our goal is to implement an integrated portal that combines the platforms for internship, training-blog and placements. We aim to reduce the manual labour required by ICs in providing information through mails and other bookkeeping. This will be achieved by redesigning the relational database schema which will reduce data redundancies and increase flexibilities in current version of placement portal. This platform will serve as combined source of information for all placement related activities.

User Categories and Functionalities

- Login and Logout for all users

1. **Admin**
   a. Initially populates the database using Django admin interface *1,2,3,4*
   b. Update database at end of the semester/year regarding new admissions, CPI change etc, *1,2,3,4*
   c. This part represents the connections of our project with rest of database tables in the university

2. **Student**
   a. View personal information using **Home** tab (default) *2*
   b. View JAFs list using **JAFs** tab *4*
   c. **Filter** tab opens up a *modal* with different filiers on: *1*
      i. Job profile
      ii. Company category
      iii. CPI cutoff range
      iv. Stipend range
      v. Other filters based on eligibility, signing status and deadline
   d. Clicking on JAF shows additional info about the JAF and option to sign/unsign if eligible *2*
   e. The same page provides links to related JAFs (created by the same company as current JAF), which further provides JAF details and reviews of selected students

      f. View all selections using **Selections** tab *2*

      g. View the student own jobs using **My Jobs** tab *3*

      h. Upload 4 types of resume using **Resume** tab *4*

      i. Confirm final selection for students finally shortlisted by companies *1*

3. **IC**

      a. View all JAFs in **Home** tab *3*

      b. **Resume** tab opens up the list of all students where the IC can view resumes/update resume verification status *1*

4. **Company**

      a. View JAFs created by itself in **Home** tab *3*

      b. Clicking on a JAF shows all students who have applied on it, with their details, a link to resume, and a modifiable list of tests passed by each student *4*

      c. **New JAF** tab allows to create a new JAF with following info: *3*

         i. Description

         ii. Timeline

         iii. Eligibility

         iv. Test

Who did what?

1. Meet Taraviya
2. Rishabh Shah
3. Harsh Depal
4. Sourabh

Models (DDL): 1

Future targets

- Stricter restrictions on JAFs across internship years
- Student placement rules for selecting between 2 or more jobs
- Ajax usage to reduce network usage

System Architecture

- Created web app using HTML, CSS, and JS for our placement portal
- Used Materialize for base CSS classes

- Used Ajax for reloading a part of document at some places
- Used JQuery as required by some Materialize features
- Use Django framework (Python 3) for:-
  - Writing servlets
  - Creating database schema
  - Communicating with database