

Placement Cell Application

Detailed Requirements Report

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1 Introduction

The Placement Cell website is a very important section of our institute. As it happens to all the things with time, it has gotten out of date and isn't very user friendly. We plan to remake the interface from scratch adding both functionality and user friendliness.

2 Overview of Users and their Functionality

The primary users of the application can be divided into three categories; namely students, student co-ordinators and company representatives. The details of which are as follows:

2.1 Students

Student data would be the major component of all data stored as a part of this application. We will make a profile for each student, which he can make and edit. This must be extensive, covering the basic information of each student such as their Department, Year of Study, Cumulative Grade Point, etc. The biggest component would be the student's Resume. This would be in multimedia format and occupy the most storage.

Students will be able to sign Job/Internship applications for which they are eligible. All applications will be visible and the student will be able to view the job/internship profile in detail from there. They would know the latest status of their application's

2.2 Student Co-ordinators

Most data about the student representatives gets captured in the student section. Data such as company allocation would be stored here.

The coordinators form the link between the students and the company representatives. Their primary role involves handling the applications opened by the company representatives (verifying it before it goes live for the students), ensuring students are eligible to apply - verifying their resumes, etc. and facilitating the entire process of tests, selections and approval of internship/job by the student.

2.3 Company Representatives

Company representatives would be in charge of updating company information, opening job/internship applications for students, with the help of the student coordinators. They would also be able to view profiles of selected candidates and shortlist candidates for the next round (manually or using some filters).

3 Data Stored

3.1 Main Categories of Data

- Student Data - Data pertaining to students' credentials, profile of students, filled JAFs.
- Student Coordinators - Contains data and credentials of Coordinators, information regarding companies, list of selected students, list of remaining students.
- Shortlist Data - Contains the data about the bunch of students shortlisted for which JAFs
- Company - Includes data of each registered Company, contact information of coordinators, its JAF.
- JAFs - Contains all data relating to a Job Opening in a Company, including company name, stipend, type of work, duration, location etc.

3.2 Volumes

- Total number of users = 2500
 - Number of Students = 2,000. This would increase over the years
 - Number of Company Representatives = 200
 - Number of Student Coordinators = 50
- Total number of concurrent users = 100-200

4 Main Interfaces for Data

- Separate portals for students, placement coordinators, companies and admin
- Summary pages for students to view status of signed IAFs/JAFs and view new JAFs they are eligible for

- Page showing students details for each JAF and link for signing up for it
- Page for coordinators to view and approve JAFs opened by Companies, and also verify Student Profiles
- Pages for Company Representatives to update info, open JAFs , and short-list/select students

5 Transactions

Data would get updated in the DBMS when certain events happen, such as opening of a new job position, selection of students for after a coding test, or releasing the list of selected students. Each of these might result in updates to multiple tables and would be treated as one transaction.

6 Data Processing

We plan to do the bulk of the actual Data Processing directly through SQL itself to build a strong database-relation support in the back-end. SQL queries are fast to execute, easy to write and code and give a wide range of flexibility. The rest of the processing will be handled by JAVA using servlets and the frontend i.e changing and viewing the data have to be maintained by an online GUI based on HTML, CSS and Javascript for user-freindliness.

7 Other Features

The PT Cell has a plethora of rules and the job of enforcing of some of these can be directly taken by the Application itself.

For example, one of the most important rules is that a student secured a job in a company is deemed ineligible for applying for any other companies, and also any previously applied companies should now be unable to shortlist/select him.

We plan to implement a subset of these rules including at least the one stated above.

References

- [1] [IITB Placement Cell](#)