

## Title: Career Fair Services

First name	Last name	IIT Email	Online or Remote Students? (Y or N)
Prateek	Deshmukh	<a href="mailto:pdeshmukh@hawk.iit.edu">pdeshmukh@hawk.iit.edu</a>	N
Siddharth	Singh	<a href="mailto:ssingh108@hawk.iit.edu">ssingh108@hawk.iit.edu</a>	N
Vighnesh	Sawant	<a href="mailto:vsawant@hawk.iit.edu">vsawant@hawk.iit.edu</a>	N

### Important Notes:

- Each group must submit ONLY one copy by a single team member!
- Your submission will get a score 0-10 which means your maximal grade in your final project. For example, if your submission (i.e., your team) got a score of 7, it implies that your team can get a maximal grade of 70 on your final project.
- You will have a chance to resubmit the proposal if you are not satisfied about your grade. But you must resubmit it by Oct 28.

### 1. Introduction

#### Background:

- The project is aimed at developing an offline application for career services of Illinois Institute of technology. It can be accessed throughout the org.
- This system can be used as an application for the career services of the university to manage the student info with regards to co-op, internships and full time jobs.
- With the help of student login they will be able to upload the info and can generate cv automatically.
- Employers can also log into the system and can search candidate profiles based on their request.
- It is centralized repository of student's profile
- Also, students will able to view employers list along with positions they are offering.
- The hybrid recommender systems exploit the jobs and user profile to generate personalized recommendation of jobs for candidates.
- All student data will be warehoused according to year and department
- Companies will disclose positions and job availability to career fair services
- Eligible student can apply for the job based on the criteria provided by the company.
- Student can give pre- aptitude test before the interview through electronic exam in the software
- When a student logs into the account, he/she can see their status.

Motivation:

- This project was aimed for giving services to not only students but also employers.

## 2. Requirement Analysis

Database Planning:

Which data to be collected?

– student's data to be collected and warehoused from his 1st year to final year.

What doc to be needed?

- ERD – ER diagram will include students, admin, website and companies.
- UML – it is use case of our system in which admin, TPO, student, teacher, admission admin are the actors. Use case will identify different types of users of a system and different use cases.
- Use case diagram – it identifies different types of users in the system and their different use cases i.e. what kind of operations the user is going to perform in the system.
- Sequence Diagram of a system – shows how processes operate with one another and in what order. Will in turn show object interactions arranged in time sequence.
- State Website Diagram of our system.
- Data Flow diagram of our system – shows graphical representation of the flow of data through an information system, modelling its process aspects.
- Gantt chart – it illustrates the timeline of the project.

Design and implementation – System Design helps in specifying hardware and system requirements, also helps in defining overall system architecture

Web programming language:

- PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language.
- Hyper Text Markup Language, commonly referred to as HTML, is the standard markup language used to create web pages.
- Along with CSS: Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. JavaScript: JavaScript is a high-level, dynamic, untyped and interpreted programming language.
- Oracle 12c is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases.
- Wamp Server will install Apache, PHP5 and MySQL on your Windows system. Wamp Server comes with a service manager as a tray icon. It will allow you to easily manage your server. The WAMP stack provides developers with the four key elements of a Web server: an operating system, database, Web server and Web scripting software. The combined usage of these programs is called a server stack.

System definition: we have planned to develop portal for Career services which is the desktop based application. In the system, the student records are maintained in proper formats and eliminates the tedious work of shortlisting the selected students who are eligible for the company. Only the authorized administrator will have privileges to make changes in the system. Student will have less privileges as compared to admin and career services. The campus selection which is a manual routine and students proving CV to the career services is a manual process and hence we are eliminating it. Also. The paperwork of resumes are going to be eliminated. Everything will happen through portal.

Scope and boundaries of the project:

- To store information of all the students.
- Resumes categorized according to various streams.
- Resumes are automatically generated
- Notifications feature to send out updates to students regarding the career fair and employers.
- Incorporated offline services to save data and time from Employers and Student's perspective that can be accessed throughout the organization and outside as well with proper login provided.
- System can be used as an application for the college authorities to manage the student information with regards to placement.
- The home page will contain various links such as links to login, numerous services like events happened, achievements and recruiter details etc. The administrator will create the users and the users will use the accounts created by administrator. Only the students from IIT college will be allowed to create accounts.
- All the users have some common services like changing password, updating details, searching for details, checking the details, mailing to administrator, and reading the material uploaded by admin if the user is a student.
- Administrator will be provided the privileges of adding events, achievements and can reply to the mails sent by different users. He/she can upload materials, search for student details, and will be given permission to approve the students.
- It resolves typical issues of manual examination processes and activities into a controlled and closely monitored work flow in the architecture of the application. This solution brings in by default, the basic intelligence and immense possibilities for further extension of the application as required by the user.
- The system makes it simpler to distribute, share and manage the examination entities with higher efficiency and easiness. The objective of this website is to serve as a common meeting ground for job seekers and employers, both locally and globally, where the candidates find their dream jobs and recruiters find the right candidate to fulfill their needs.

Requirements Collections and Analysis:

Implementation

Implementation Methodology – Software Development Life Cycle.

Entire Project duration: 1.5 Months

Approach – Agile.

#### Testing

Each unit is developed and tested for its functionality; this is referred to as Unit Testing. Unit testing mainly verifies if the modules/units meet their specifications. These units are integrated into a complete system during Integration phase and tested to check if all modules/units coordinate between each other and the system behaves as per the specifications.

#### Operational Maintenance

If new attribute needs to be added anywhere in the system, then admin must update it. Also, issues related to the system are solved after deployment of the system. Not all the problems come in picture directly but they arise time to time and needs to be solved hence this process is referred as Maintenance.

### 3. Application Design

In this project users are Students, Employers, Career Services, Administrator

We don't have individual platform for client portal and admin portal but we do have different modules as admin and other users (Student, career services)

Administrator module consists of services like:

- Update details: Allows administrator to update his (University) details.
- Update statistics: Allows administrator to insert/update statistics like no. Of students selected etc.
- Add student: Allows administrator to add a student to database.
- Add recruiter: Allows administrator to add a recruiter to database.
- Add event: Allows administrator to add/insert an event.
- Approve: Allows administrator to verify the details of the student, and to Approve him /her to the application if they are correct.
- Student details: Allows administrator to search for student information According to eligibility criteria for recruitment process.
- Upload material: Allows administrator to upload material for students.
- Mailing: Allows administrator to reply for the mails sent by users.
- Change password: This service enables the administrator to change password.
- Add Staff: Admin can register new roles such as Professor/Teaching Assistant.
- View list of staff: Admin can view all staff list (also can edit information).

2. Career Services module consists of services like:

- Update details: This service provides the user to update their details.
- details: This service provides the user to check the University details.
- Student details: This service allows recruiter to search for student information according to eligibility criteria for recruitment process.
- Mailing: This service provides the user to mail to administrator.
- Change password: This service enables the users to change password.

- Arrange interview calls.
- send Interview call information to the shortlisted student via mail.

3. Student module consists of services like:

- Update details: This service provides the user to update their details.
- Check details: This service provides the user to check his details.
- Material: This service provides the user to check for materials uploaded by administrator
- Mailing: This service provides the user to mail to administrator.
- Change password: This service enables the users to change password
- view results.
- Career Services Information-Interview call mailed-list.
- CV creation-student's details, grades, activities.
- Add student marks
- Add extra activities of students-events-event name, role-related to CV-just display

4. Registration module consists of services like:

- Fill admission form during the admission time of the student.

#### **4. Timeline**

Studying the system: October 19, 2017

Requirement analysis: October 20, 2017

Identify constraint, establish SRS: October 22, 2017

Study functional modelling and information flow: October 23, 2017

Design the model: October 25, 2017

Coding: October 27, 2017

A) Admin module: October 27, 2017

B) Registration module: November 3, 2017

C) Student services module: November 10, 2017

D) Registration module: November 18, 2017

Testing: November 25, 2017

Report: November 29, 2017

Termination of project: November 30, 2017

Figure out a basic timeline to complete your project