**UCS503- Software Engineering Lab**

**(A typical Specimen of Cover Page & Title Page)**

**Internship Portal**

**UCS 503 Software Engineering Project Report**

**END-Semester Evaluation**

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**UCS503- Software Engineering Lab**

**TABLE OF CONTENTS**

**S.No.** **Assignment** **Page No.**

1. **Project Selection Phase**

1.1 Software Bid 4

2. **Planning Phase**

2.1 Project Write-Up 6

2.2 Feasibility Report

2.3 Gantt Chart

3. **Analysis Phase**

2.1 Use Cases

2.1.1 Use-Case Diagrams

2.1.2 Use Case Templates

2.2 Activity Diagram and Swimlane Diagrams

2.3 Data Flow Diagrams (DFDs)

2.3.1 DFD Level 0

2.3.2 DFD Level 1

2.3.2 DFD Level 2

2.4 Software Requirement Specification in IEEE Format

2.5 User Stories and Story Cards

1. **Design Phase ( At least two significant cases of each diagram)**

3.1 Class Diagram

3.2 Sequence Diagram

3.3 Collaboration Diagram

3.4 State Chart Diagrams

1. **Implementation**

4.1 Component Diagrams

4.2 Deployment Diagrams

4.3 Screenshots

1. **Testing**

5.1 Test Plan

5.2 Test Cases

5.3 Test Reports

**Software Bid/ Project Teams**

**UCS 503- Software Engineering Lab**

Group : 3CO13 Dated: 17-8- 2023

**Team Name: Code Breakers**

**Team ID (will be assigned by Instructor):**

Please enter the names of your Preferred Team Members.

∙ You are required to form **a three to four person** teams

∙ Choose your team members wisely. You will not be allowed to change teams.

| Name | Roll No | Project Experience | Programming  Language used |
| --- | --- | --- | --- |
| Mayank Aggarwal | 102103350 | Discord & Slack bot, Resourcehub , BookDesk | Python, dart, Docker, Node Js, React Native |
| Saksham Mutneja | 102103359 |  | HTML, CSS |
| Samarth Thakur | 102103364 |  | HTML, CSS |
| Naman Goyal | 102153001 | News Paper Agency , Medicine Donation , House price Prediction | Java ,Node Js, Python, React Js |

**Programming Language / Environment Experience**

List the languages you are most comfortable developing in, **as a team**, in your order of preference. Many of the projects involve Java or C/C++ programming.

1. Node Js

2. Django

3. Java

**Choices of Projects:**

Please select **4 projects** your team would like to work on, by order of preference: *[Write at-least one paragraph for each choice (motivation, reason for choice, feasibility analysis, etc.)]*

| First Choice | **Statement** :- A platform where companies can offer internship opportunities to Thapar Students.  **Motivation & Reason of choice** :- Thapar is not having an Internship portal, because of which we get updates on email and we are not able to manage the opportunities. And with the help of this portal company can directly interact with students. |
| --- | --- |
| Second Choice | Tour recommendation project aims to simplify travel planning, offering personalized a planned route that enhance traveler experiences . By leveraging technology and user preferences, it provides curated suggestions, making trips more enjoyable and memorable. Additionally, it presents business opportunities by catering to individualized travel needs. |
| Third Choice | **Statement :-** A Platform for thapar students and E-Rikshaw Drivers where students can book an E-Rikshaw ride.  **Motivation & Reason of choice** :- When we are late for lectures, Some time E-Rikshaw’s are not available near hostel and because of which we get a bit more late for lectures. |
| Fourth Choice | Pet Care project addresses the need for organized and informed pet management. By offering guidance on feeding, health, and activities, it enhances pet owners' ability to provide optimal care. This project also fosters a sense of responsibility and strengthens the bond between owners and their pets. |

**Additional Remarks/ Inputs**

Please tell us about any other factors that we should take into consideration (e.g., if you really would like to work on a project for some particularly convincing reason).

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**Statement** :- A platform where companies can offer internship opportunities to Thapar students.

.………………………………………………………………………………………..

We need to take internship portal into consideration because at present thapar is not having any internship portal, Secondly it is very difficult for students to distinguish between other mails and important internship emails because of spam emails.

.…………………………………………………………………………………………

**2. Planning Phase:**

**2.1 Project Write-Up:**

The Goal of this Project is to provide a best platform to students of thapar to manage their internship opportunities given by Placement Cell (On-Campus Internship / Placement) .

In this project, the students will log in using their Thapar email address, and company will signup with their email address . when company Announces a round students can fill the form and can apply for that job role. Selected students gets Notified and can add testimonials about their experience with our website. Students can have history of companies to which they applied.

The software should be able to perform the following operations:

● Staff/Placementcell Account : This account is associated with all the functionality and permissions of the website .

● Creation of Student Accounts : Once the admissions are over the staff account should be able to create the student accounts by uploading the csv or xlsx file.

● Login: The student should be able to log in using only their Thapar Email address.

● Company Signup : The companies should be able to Signup to our website with only email verifications.

● Announce Round : The Company should be able to Announce the round by Filling the form.( where CG cut can be applied)

● Notification : The Student should get the notification of the round announced, Round Clearance and many other.

● Applying for round : The Student should be able to apply for the round on the portal by filling the form.

● Uploading Result : The company Should be able to upload the result of the students who are able to clear the round.

● CG Cut : Form Filling Option should be open for only those students who full fills the CG Criteria

And after the test company and also apply a CG Cut to eliminate some of the students.

● Testimonial : The Selected student should be able to add request for adding the Testimonial to the home page of this portal.

● Testimonial Approval : The staff Account user should be able to approve the request for testimonial.

**2.2 Feasibility Report:**

Technical Feasibility-

‘Getplaced’ is a Mainly web-based application. The main tools and technologies associated with it are-

● NodeJS

● Django

● React Native/HTML, CSS

● MongoDB/ MySQL

● JavaScript

Each of the above-mentioned technologies is freely available and the technical skills required are manageable. Time limitations of the product development and the ease of implementing using these technologies are synchronized.

Initially the website will be hosted in a free web hosting space, but for later implementations it will be hosted on a paid hosting space ( on Microsoft Azure ) with sufficient bandwidth.

From the above mentioned points it is clear that the project is technically feasible.

**Economic Feasibility -**

Since our project is a website, it will be associated with a hosting cost. The multimedia data transfer is less in our project; hence the bandwidth required for the working of the website will be low. Users won’t be charged any cost for accessing or using the website functionalities. Maintaining the website will require capital, including updating the website and fixing bugs.

In the initial stage, the potential market space will be limited to the university. Besides the associated cost, there will be many benefits to the users, i.e., Students and Placement Cell, and Companies that brings on-campus offer.

**Resource feasibility -**

Resources required for the project are

1. Programming Device(Laptop or Desktop)

2. Hosting Space

3. Programming tools (Freely available)

4. Programming individuals

From the above-mentioned points it is clear that the project has the required resource feasibility.

**Legal Feasibility -**

The project uses freely available development tools and provides the system as an open-source system. All the software libraries used in this system are free open-source libraries. Since this new system eliminates the effort to make statistical distributions, it will have a great impact on a university system.

**Risk Feasibility -**

Risk associated with size

The project will have a significant amount of code lines. As the only supported multimedia in the project are photos, the whole project size will not be extraordinarily high. The maximum file size allowed for the uploaded photos and excel files will be 25MB, and the format allowed will be .jpg and .png.

The project will be created as a mainly web application with a single login page rather than having many sites for different users. Depending on the access rights, the contents will be shown or hidden.

The size of the Database used will not exceed the values supported by MonogDB. The number of relations and entities will be limited by using the best practices for normalization.

Users of the product

1. Students

2. Placement Cell

3. Companies

**2.3 Gantt Chart:**