

(A typical Specimen of Cover Page & Title Page)

Internship Portal

UCS 503 Software Engineering Project Report

END-Semester Evaluation

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Submitted to:

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THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

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TIET, Patiala

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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	<p>Statement :- A Platform for thapar students and E-Rikshaw Drivers where students can book an E-Rikshaw ride.</p> <p>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.</p>
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).

.....

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.

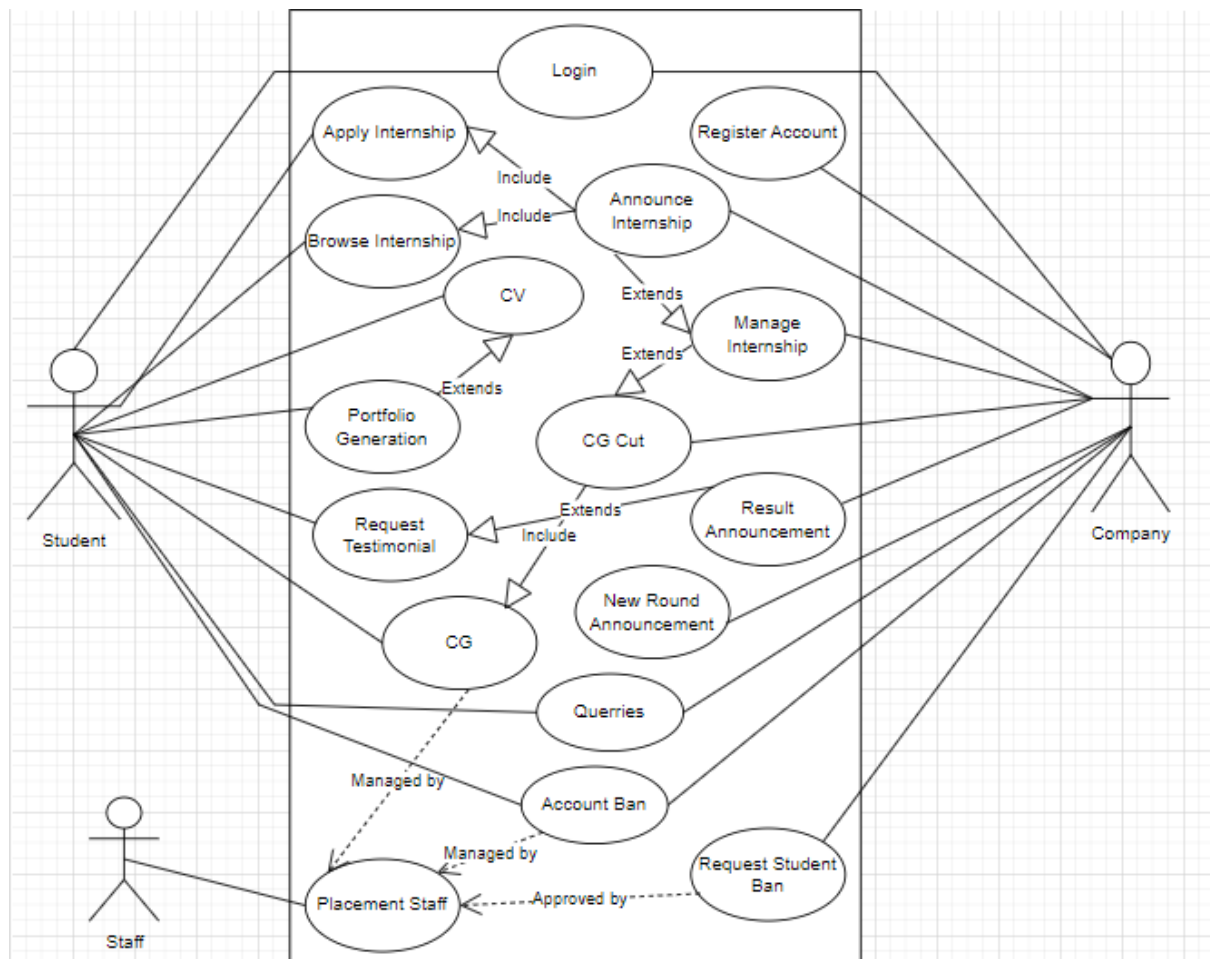
Users of the product

1. Students
2. Placement Cell
3. Companies

2.3 Gantt Chart:

3. Analysis Phase:

3.1 UseCase Diagram:



3.1 UseCase Scenerio:

- 1.

Use Case Title	Login
Use Case ID	1
Actor	User :- Student / Company / Staff
Description	The Students / Company / Staff Can login on our website all of them are having different features binded with their roles. Once they login they will be redirected to their specific Dashboards where they can Acces the features binded with their accounts.
Pre-Coditions	The User Must Have an Account Associated with our website . The Username/ Password should be valid.
Task Sequence	1. User Enters The Username 2. User Enters the Password 3. User Now Gets Logged In or Gets an Error.
Post Conditions	If the Entered Username/Password Details are Correct than Render Dashboard otherwise Display the Error.
Modification History	3/9/2023
Authors	Mayank , Saksham, Samarth, Naman

2.

Use Case Title	Portfolio Generation
Use Case ID	2
Actor	User :- Student
Description	Once the Account of Students is created and all the details are filled our website will create their Portfolio Automatically.
Pre-Coditions	The User Must Have an Account Associated with our website . The CV Should be Uploaded . CG Must be Mentioned.
Task Sequence	1. User Must Login. 2. User than uploads CV. 3. User can then Generate Portfolio in Profile Page.
Post Conditions	If All User Detials requiemnts are fulfilled then generate Portfolio otherwise display Error.
Modification History	4/9/2023
Authors	Mayank , Saksham, Samarth, Naman

3.

Use Case Title	Testimonials /Blogs
Use Case ID	3
Actor	User :- Student
Description	The Students Can Upload their Feedback / Testimonials to our website and this will send the request for verification to staff, Once they Approve this the Testimonial Gets Public on our Homepage. With This they can Share Experience with others.
Pre-Coditions	The User Must Have an Account Associated with our website . They Must Have an offer letter . The Account must be Student Account
Task Sequence	1. User LogIn to our website. 2. Click on Testimonial Section in Sidebar. 3. Enter the Title ,Description and Picture Related to Testimonial/Blog.
Post Conditions	If Title, Description, Picture Fullfills the requirement than send the request otherwise Display the Error.
Modification History	5/9/2023
Authors	Mayank , Saksham, Samarth, Naman

4.

Use Case Title	Announce Internship/Placement
Use Case ID	4
Actor	User :- Company
Description	Here Company can post their Internship/Placements.And also can Breif about eligibility criteria,requirements,Last Date etc. In this company can announce Date of exam and information about overall process.
Pre-Coditions	The company must be registered to our website. The email / id of HR Department must be verified.
Task Sequence	1. User Enters The Email 2. User Enters the Password 3. User Now Gets Registered In or Gets an Error.
Post Conditions	If the Entered Email/Password Details are Correct than Render Login Page otherwise Display the Error.
Modification History	6/9/2023
Authors	Mayank , Saksham, Samarth, Naman

5.

Use Case Title	Apply Internship/Placement
Use Case ID	5
Actor	User :- Student
Description	Here Student Gets the details of the internship Announced and now the student and view the offer, requirement, CTC etc and Apply for it/
Pre-Coditions	The User Must Have an Account Associated with our website . CG of Student should be \geq to the mentioned CG. Student should have the required Skills set.
Task Sequence	1. User LogIn to our website. 2. Click on Internship/Placement Section in Sidebar. 3. Reading the Offer. 4. If Elligible then Apply for it by filling the form.
Post Conditions	If the Details Entered are all correct than apply student must be registered with the offer otherwise error will be displayed
Modification History	7/9/2023
Authors	Mayank , Saksham, Samarth, Naman

6.

Use Case Title	Result Announcement
Use Case ID	6
Actor	User :- Company
Description	The Company Can Announce Result of the Internsip. They can upload CSV / XLSX file to upload the result. The selected students gets notified about their selection.
Pre-Coditions	The User Must Have an Account Associated with our website . User Must have Announced an internship / placement . User Must have CSV / XLSX file ofselected students
Task Sequence	1. User LogIn to our website. 2. Click on Announce Result Section in Sidebar. 3. Now Upload the result after reading requirements.
Post Conditions	If File Uploaded mets the requirements then send mail about selection of student and Display success message otherwise display Error.

Modification History	8/9/2023
Authors	Mayank , Saksham, Samarth, Naman