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TITLE: find intern

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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

Summary

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. Finding proper internship is extremely difficult for beginners whereas limited number of resources creates complications due to this student have to directly depends on external partnership, parental refers or alternatively surfing over of company sites to seek internship or settle for intern programs provided by the institute even though internship programs are extremely, we lack platform where corporate could offers internship opportunity where candidate lack platform to find one. Find internship will be the one of the platform which will be going to solve the problem. As a survey shows many of us still looking for the internship where as some of them are looking for new as they are not satisfied.

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1. Introduction

As we are living in the year of science and technology where internet technology is considered as the one of the precious gift till date. As the growth of technology have immensely change our human civilization and society where internet and web technology allow business to reach a worldwide audience with their product and services. Web apps like courser and udemy are supporting in the educational fields whereas upwork and fiverr are promoting online jobs. Web technology covers every part of internets.

Find intern will help students to enhance their theoretical knowledge to implement the practically to the real world program. Find intern will be a web application which will help to find the required internship across different companies reducing the time and cost constraints where this will provide a platform to companies to hire the student reducing the labor charges and working with new frame of mind with youngsters. This application will also help the company to post the internship program where larger number of people would be visiting.

1.1 Problem scenario

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. Finding proper internship is extremely difficult for beginners whereas limited number of resources creates complications due to this student have to directly depends on external partnership, nepotism or alternatively surfing over of company sites to seek internship or settle for intern programs provided by the institute.

As a survey conducted by merojob, an internship is practiced mostly while pursuing the following academic degree: Bachelor's Degree at 80%, followed by a Master's Degree at 11%. A third close is High School at 8% and rounding it off is Doctorate with 1%. (merojobs, 2022) the majority of companies do not provide internship programs as they are tiny or start-ups company which lacks resources and time to properly train new employees due to this internship lacks.

1.2 Survey Result:

A survey conducted among students to find out the problems faced by them finding the internship which is required. It was claimed that internship program is plays extreme role in the student life whereas result shows the majority of students have to find the internship from online source whereas student of islington college facilitates the external partnership which makes easier as compared to others whereas majority of students lacks the enrollment of internship programs to make easier find internship application will be made.

1.3 Project as a solution:

Internship partners as a project will help to overcome the difficulties to find the proper internship. Internship partners will help to find the finest internship available and trending technologies from the reputed software companies of Nepal. Internship partners will be posting multiple internship programs according to the market where student can easily enroll the program to develop the career. This application will help to sort the internship program as per their interest as well as based on the location. This application will provide an interface to the companies where they can post their internship vacancy as per their need. internship partners will also help companies to short list the candidate as per their need.

1.4 Aims and objectives

The aim of this project is to develop a web application where the student can find an internship program beneficial for their future reducing time ruin to develop the career according to their preferences.

The objectives of this project are:

- To learn about dot net technology and to implement its features.
- To get familiar implementation frontend technology, backend technology along with databases.
- To learn about web API and its working principal.
- To create documentation and research work to create fully functional web application.

- To create an application which will helps to find the internship program for the students
 and create a platform where IT industry could post the internship program according to
 markets and company necessity.
- To learn about building web application through frontend, backend and database technology.

2 Structure of the report

2.1 Background:

The background section of report presents the overall concept of the project which provides the brief knowledge of project and its importance. background section provides the comparison of existing project.

2.2 Development:

This section defines the development of the project which follows the life cycle of software development life cycle. Development section consist of work break down structure, Gantt chart, uml diagrams, wireframe and user interface diagrams.

2.3 Analysis of progress

This section determines progress made till dates. This section contains Gantt chart for the comparison of time lines to defines that the project is on time line.

2.4 Future work:

This section shows the remaining work which would be done in upcoming days like backend development, testing, integration and documentation.

2.5 Expected outcomes and deliverables:

The completion of project is expected to helps the student to join internship program whereas the companies will be able to post the internship programs. This project will provide the functionality like:

- Signup page where new user could register their details.
- Login page which would provide the access to dashboard.
- Companies can post, edit and delete the internship program.
- User can view and join the internship program.
- User can search the internship as required.
- User can send the file and upload cv to the admin.
- Admin can manage user and post.
- Change and reset password.
- Multilanguage features.
- user can manage their profiles.
- Internship notification

2.6 Project risk, threats and contingency plans.

Risk and threats rises at different levels which causes the loss during the development of project. some of the threats and project risk are:

- slow internet could be the issues due to which changes may not be made.
- Implementation of UI can be difficult whereas user may not be familiar with the interface.
- designing the database and implementing with the frontend technologies would be difficult task.
- · Difficulties in coding and debugging.
- Hardware devices may not be compactible.
- Security issues can be found.

To decrease the risk of project and to work on continues manner the following points would be implemented:

- Problem that might be faced by the slow internet issues can be resolved by the fast internet access.
- Researching about the UI and providing flexible operation to enhance the user experience

- Building project on time.
- Researching about dot net technology.

2.7 Similar project review

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development and to learn new skills even though there are very few project running to encourage and facilitate students. Some of the program which are currently running are: Internship Nepal, erasmusintern.org, hamro internship.com, internship shala, intern Nepal, internsathi etc.

2.7.1 Internship Nepal:

Internship Nepal is one of the online platform which was developed on 2006 and running effective programs to develop the student interest and providing unique experience under the supervision of skilled professional. They helped around 800 students from various countries all over the world.

As a project or system perspective, user can register in the system through registration pages which needs to filled. During registration user needs to insert the details like interested internship program, time period and user details like address and background. From a user perspective interface is difficult to use as they are not allowed to interact with the system neither they search for internship program neither they can post. According this system, the administrator will call the interested member to enroll in the program. functionality like search internship program according to their interest or based on category and publish internship program in the system should made available.



Figure 1:Internship Nepal homepage

ame	Email
ex	Date of Birth
Male	~
ationality	Institution (if any)
	kathmandu
ddress	Duration of Stay
lease answer the following quest	ions
Why do you want to do internship?	When do you want to begin internship and for how long
What is your field of interest?	4. How did you know about Internship Nepal?

Figure 2:registration page of internship Nepal

2.7.2 Hamro internship Nepal

Hamro internships is one of the online platform which helps the candidate to meet their dream internship. as per their system there are currently 293 internships available at present where as the system is not in operation in present and lack internship programs.

As per the system users can login and register where login and registration failed which might be the reason behind having zero internship programs. User needs to upload cv only if they are applying for the jobs rather than for internship programs. Functionality like registration, login and reset password fails.

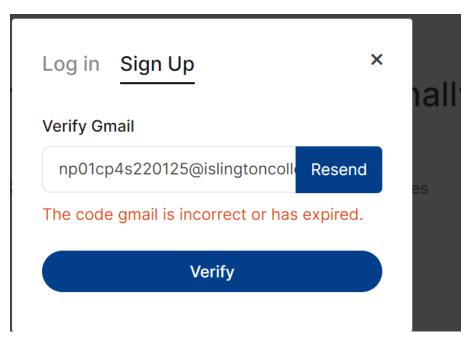


Figure 3:hamro internship fails during signup

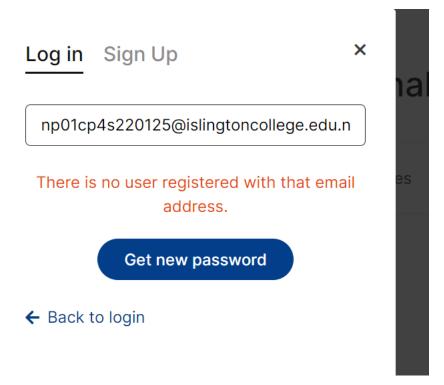


Figure 4:harmo internship fails to login

2.7.2 Intern sathi

Intern sathi is an internship focused platform started with the main focus of helping students get quality internship in Nepal and helping them to excel at it. as per the intern sathi they have helped 2500 fresher's to get their internship.

As per the system perspective internship sathi provides the functionality like registration, login and posting the vacancy. They have created category due to this user can search the internship program based on category, they have provided the functionality filter out the internship program based on date of creation where as they lack the functionality to search based on location. User experience can be improved by reducing the number of form to filled. Users are required to fill the same details on different pages which make the user hectic. As a user's using an application requires easier and experienced user interface design. Being a user's of intern sathi required to go through multiple layer of form which may not be required.



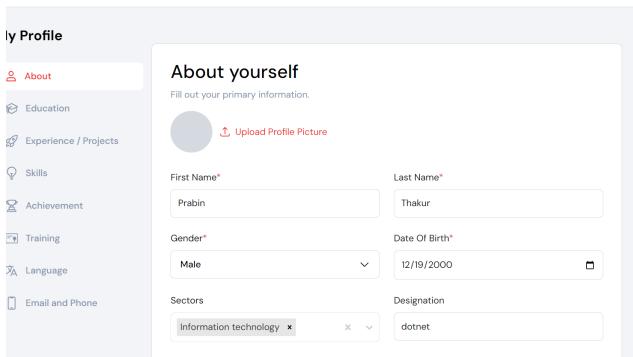


Figure 5:internsathi Userinterface

Comparison tables

SN	Features	Internship nepal	Hamro internship	internsathi	This project
1	Registration	available	available	available	Available
2	Login	not available	available	available	Available
3	Apply internship	not available	available	available	Available
4	Postinternship program	Not available	available	available	Available
5	Filter based on location	Not available	available	available	Available
6	Upload cv	Not available	available	available	Available
7	Reset password	Not available	Not in function	available	Available
8	Multilanguage	Not available	Not available	Not available	Available
9	Advertisement	Not Available	Not Available	Not available	Available

Table 1comparision table

3 Development

Software Development Life Cycle (SDLC) is a process used by the software industry to design, develop and test high quality software's. The SDLC aims to produce a high-quality software that meets or exceeds customer expectations, reaches completion within times and cost estimates. (tutorialspoint, 2023)

There are various types of model designed which are followed for software development life cycle.

Each model follows a series of unique steps to ensure success in the process of software

development.

Some of the most popular software development life cycle are:

1. Waterfall model

2. Scrum model

3. Kanban model

3.1 Waterfall model

Water fall model is also called as linear-sequential life cycle model. In waterfall model each phase

must be completed before the next phase can begin and there is no overlapping in the phase. The

success of the Waterfall method depends on the amount and quality of the work done on the front

end, documenting everything in advance, including the user interface, user stories, and all the

features' variations and outcomes. (adobe, 2023).the stages of water fall model are:

1. Requirements analysis and specification phase

2. Design phase

3. Implementation phase and unit testing phase

4. Integration and system testing

5. Operation and maintenance phase

Disadvantages of using waterfall model

o In this model, the risk factor is higher, so this model is not suitable for more significant and

complex projects.

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- o This model cannot accept the changes in requirements during development.
- It becomes tough to go back to the phase. For example, if the application has now shifted
 to the coding phase, and there is a change in requirement, It becomes tough to go back and
 change it.
- o Since the testing done at a later stage, it does not allow identifying the challenges and risks in the earlier phase, so the risk reduction strategy is difficult to prepare. (javatpoint, 2023)



Figure 6:steps followed by waterfall model

3.2 Scrum model

Scrum is the type of Agile framework. It is a framework within which people can address complex adaptive problem while productivity and creativity of delivering product is at highest possible values. Scrum uses Iterative process. Silent features of Scrum are:

Scrum is light-weighted framework

Scrum emphasizes self-organization

Scrum is simple to understand

Scrum framework help the team to work together

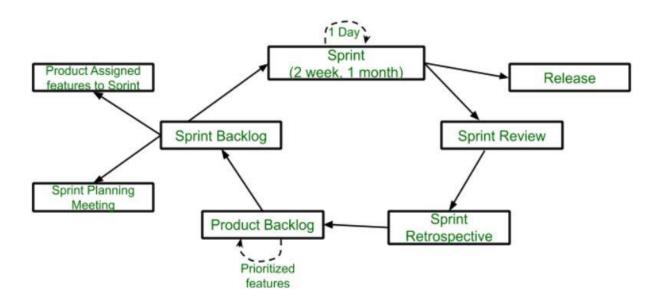


Figure 7scrum methodology

Sprint:

A sprint is a time frame of no more than one month. The conclusion of one Sprint quickly ushers in a new one. Release: After the product is finished, it moves on to the next phase. Sprint Review: The product will be examined here to see whether there are any aspects that are still unachievable, and if so, it will move on to the Sprint Retrospective stage. Sprint Retrospective: During this phase, the product's status or quality is examined. Product Backlog: The product is arranged based on features that are prioritized. Sprint Backlog: There are two components to Sprint Backlog. Product allocated sprints and sprint planning meetings features.

Disadvantages of scrum:

The Scrum framework forbids modifications within individual sprints.

The Scrum framework paradigm is not entirely stated. Should you choose to implement it, you will need to add your own details to the framework, such as DSDM, Kanban, and Extreme Programming (XP).

Undefined projects can be challenging for the Scrum to plan, manage, and structure.

Significant resources are needed for the daily Scrum sessions and the regular reviews.

3.3Selected methodology:

Kanban is a visual system for managing work as it moves through a process. Kanban visualizes both the process (the workflow) and the actual work passing through that process. The goal of Kanban is to identify potential bottlenecks in your process and fix them so work can flow through it cost-effectively at an optimal speed or throughput. many development teams use this method and lets team members see the work that needs to be done, the work that is in progress, and the completed work. It also helps measure the success rate of your workflow and improve it. (travers, 2023)

Benefits of Kanban's

- Easier Changes
- Improving Efficiency and Productivity
- Workflow Management
- Problem Solving and Risk Management
- Reduced Overhead Costs
- Collaboration and Experimentation

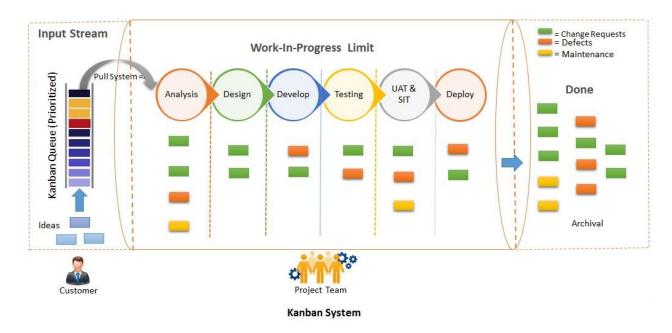


Figure 1:kanban implementation

3.3.1Reasons to use Kanban:

- Using Kanban will help me to visualize the ongoing task and completed task. It will help me to prioritize the task for the development.
- Kanban provide better continuous work flow over scrum for the development Kanban will help me to reduce wastes of time constraints from process.
- Implementing changes gained from feedback and loops will be easier at any time.
- In a solo project requires several steps Kanban increases productivity by ensuring me to work on right thing on right time.
- Kanban will help me to schedule task and delay task according to needs.
- Using Kanban methodology, it will be easier to experiment and adjust the time frame and changes if it is not working as required.

3.4 Software Requirement specification

Software Requirement Specification, also known as a software requirements document, is a formal document that outlines the functional and non-functional requirements of a software system. It serves as a contract between the client and the development team, providing a clear and unambiguous description of what the software should do.

The primary goals of an SRS document are to establish a common understanding between stakeholders, serve as a basis for system design and development, and provide a reference for testing and validation. It includes various sections such as an introduction, functional requirements, non-functional requirements, system constraints, and user interfaces. (prepbytes, 2023)

3.4.1 Introduction of project:

The internship portal system is designed to helps the student to meet the internship they needs. This application will helps the student to apply for the internship program which would be created by the different corporation making them easier to upload their cv to increase the rate of acceptance and reducing the data repetition reducing the number of forms to be filled where as the corporation would provided the functionality to add the internship program and to hire the students based on the requirements among the applicant. While the admin will have access to manage the students and corporation and trace them.

3.4.2 Functional requirement:

These requirements define the specific functionality that the software system should deliver. The function that are required in the application are:

- Admin panel which would help the admin to manage students and corporation. Admin
 have the features to block the corporation and student if required.
- Students can easily apply the internship programs and search based on the category whereas they easily send their cv to the corporation.
- Corporation can easily create, edit and delete the internship program and hire the students based on their qualification and cv which they would be provided.
- Students would be provided notification which would helps to notify their status whether they have been accepted or rejected.
- Login functionality will be provided which will help them to secure their data and redirect them to dashboard based on their roles.

3.4.3 Nonfunctional requirement:

- The app must be responsive with fast loading times minimal delays when accessing features or data.
- The app must be user-friendly and easy to navigate, with a clear and intuitive interface.
- The app must be reliable and stable, with minimal downtime or errors.
- Cross platform supports system.

3.5 Software architecture

Software architecture is the high-level design and organization of software in which we make important decisions regarding its overall structure, such as the relationships between components, data flow patterns, and the mechanism for communication between different parts of the system.



Figure 8:software architecture

3.6 Use case diagram

A Use Case Diagram is a vital tool in system design, it provides a visual representation of how users interact with a system. It serves as a blueprint for understanding the functional requirements of a system from a user's perspective, aiding in the communication between stakeholders and guiding the development process.

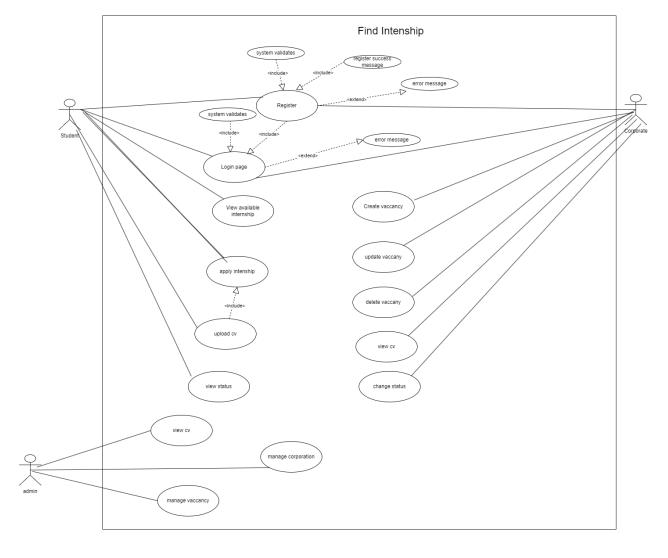


Figure 9:usecase diagram

3.7 Work break down structure

A Work Breakdown Structure (WBS) is a deliverable-oriented hierarchical decomposition of the work to be executed by the project team to accomplish the project objectives and create the required deliverables. A WBS is the cornerstone of effective project planning, execution, controlling, monitoring, and reporting. All the work contained within the WBS is to be identified, estimated, scheduled, and budgeted. (visual-paradigm, 2022)

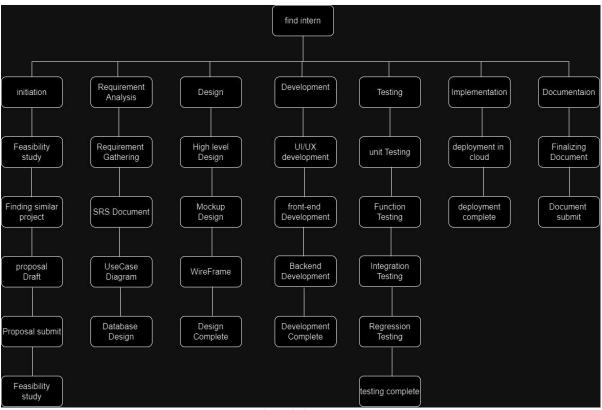


Figure 2:work down structure

4 Milestone:

Project milestones are checkpoints in your plan that mark important events, dates, decisions, and

deliverables so it's easy for your team and stakeholders to map forward progress on the project.

Milestones indicate a change in stage or development and act as signposts throughout the course

of your project, helping you ensure everything stays on track. Without milestone tracking, you're

just monitoring tasks and not necessarily following the right path in your project. (teamgant, 2023)

Milestone 1: topic finalization

The first milestone is to finalize the topic that represent overall system functionality and

documentation required for the future.

Milestone 2: Proposal submit

The final proposal report gives the idea of the entire project. The proposal report gives the core

knowledge of project functionality and features which are requires to be implemented.

Milestone 3: completion of interim report

Interim report is followed by the proposal which determines the success of project on time line.

The interim report shows the features which are completed and successes till date to verify the

project meet the time line.

Milestone 4: completing the frontend technology

The interface which are required in the system which provides the easier way to user to interact

and perform activities.

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Milestone 5: completing the backend technology

The functionality and features which are required in the system to perform its task needs to be

accomplished. backend technology deals with the logical performance according to the user

needs.

Milestone 6: System testing

Testing helps to find the error which are hidden in the application and leads to malfunction. Fixing

those errors and addressing into logs.

Milestone 7: deployment

Deploying the application in the cloud to make it easier to accessible by the user.

Milestone 8: finalizing the document

Documentation is required which address the test case and user guide to interact with the system

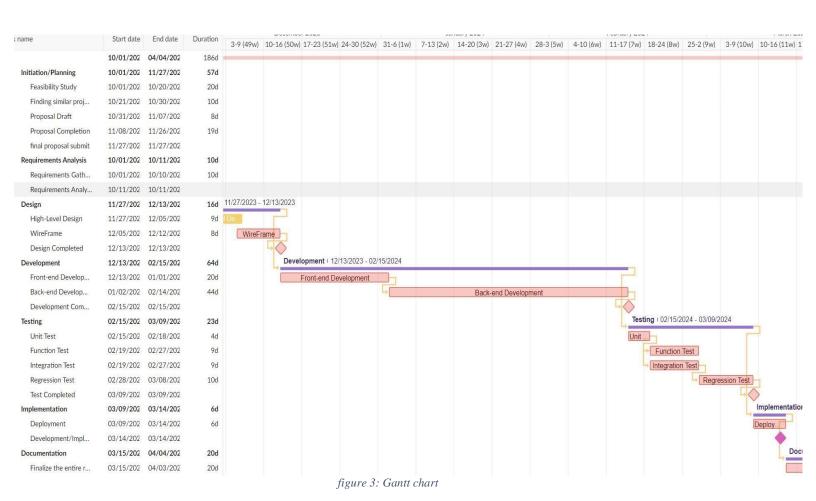
Milestone 9: project submission

The completion of project and documentation will be submitted to the department.

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4.1 Gantt chart

A Gantt chart is a project management tool that helps in planning, scheduling and monitoring a project. Using a Gantt chart can improve your planning and scheduling, remote work collaboration, resource allocation and task delegation. (geeksforgeeks, 2023)



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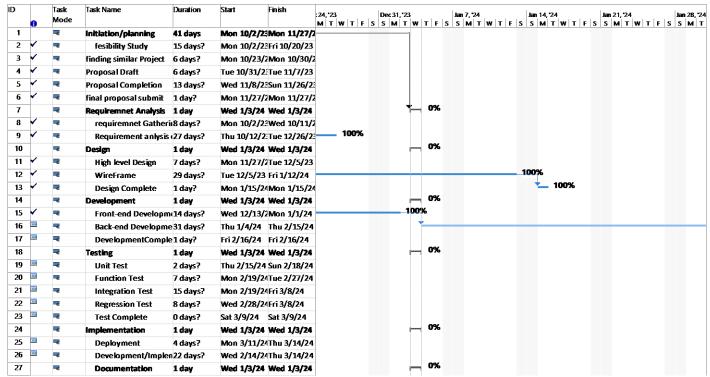


Figure 10:gantcharttimeline

4.2 Analysis of progress

Task Name	Status
Initial planning	Completed
Feasibility study	Completed
Proposal draft	Completed
Proposal Completion	Completed
final proposal submit	Completed
Requirement Analysis	Completed
requirement Gathering	Completed
Requirement analysis complete	Completed
High level Design	Completed
Wireframe	Completed
Design Complete	Completed
Front-end Development	Completed

Pending
Pending

Table 2analysis result

5 Future work

5.1Backend Development:

In this phase we will be dealing with logical and functional unit of project. as backend one of the crucial part of the project where we will be build web application based on .net technology whereas relation database will be used. Microsoft sql server will be used as database management software. kestrel server will be used as web server which is recommended for .net and configured by default. as estimated backend will be consuming our maximum time if everything goes on plan we will be making it possible on time.

5.2 Testing

Software testing is the process of assessing the functionality of a software program. The process checks for errors and gaps and whether the outcome of the application matches desired expectations before the software is installed and goes live. As soon as backend development completes testing will be done. During this phase error log will be made. Test cases are prepared.

5.3 Deployment

After successful completion of testing deployment will be done. During the deployment error may arise which needs to be fixed.

5.4 Documentation

Final report will be made after the testing and deployment where overall system performance and user guide will be made.

Conclusion

Internships offer students career exploration and development opportunities, but finding the right one can be challenging due to limited resources and small start-ups. Find intern aim to help students find the best internships and trending technologies from reputable Nepalese software companies. The application will sort internship programs based on students' interests and location, and provide an interface for companies to post their internship vacancies.

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Appendix

Collaboration diagram

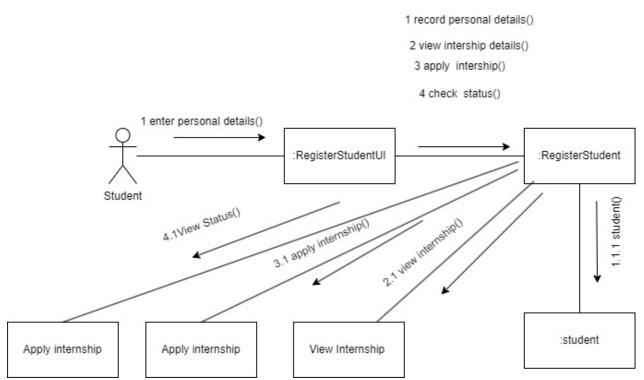


Figure 11:collabration diagram of student

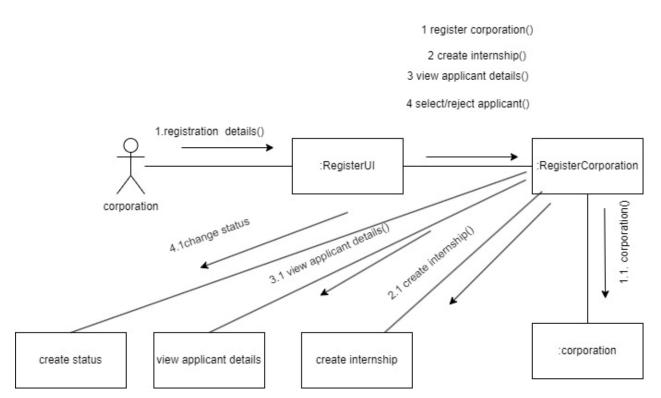


Figure 12:collabration diagram of corporation

Resources requirement

Some of the resources which are required for the accomplishment of this project are:

- 1. Visual studio: Visual studio is an IDE for .net platform which helps to write, edit and build code and deploy apps.
- 2. Ms sql: MS SQL Server is a relational database management system (RDBMS) developed by Microsoft. This product is built for the basic function of storing retrieving data as required by other applications. It can be run either on the same computer or on another across a network.
- 3. Draw.io: It is an online diagram tools which helps to build uml diagrams.

Wire frame

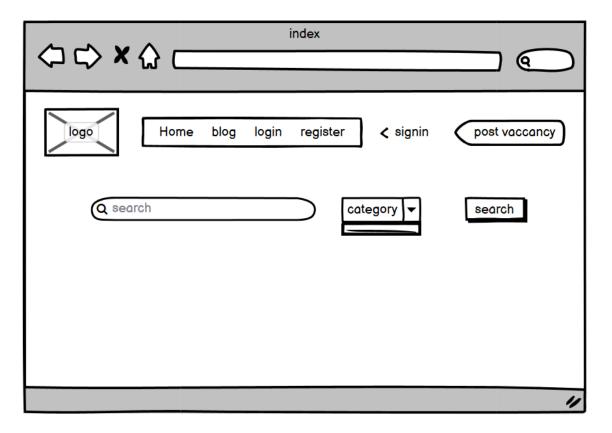


Figure 13:layoutpage

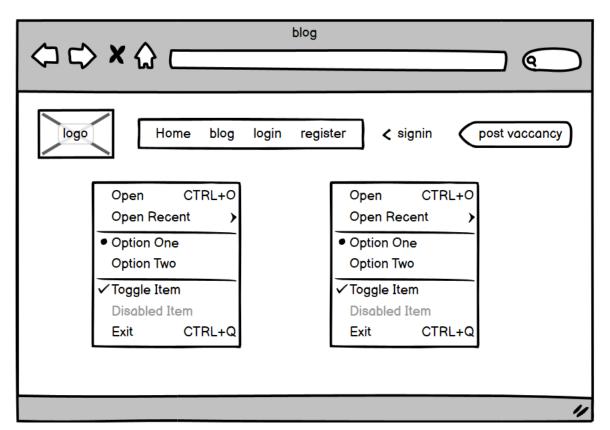


Figure 14:blog page

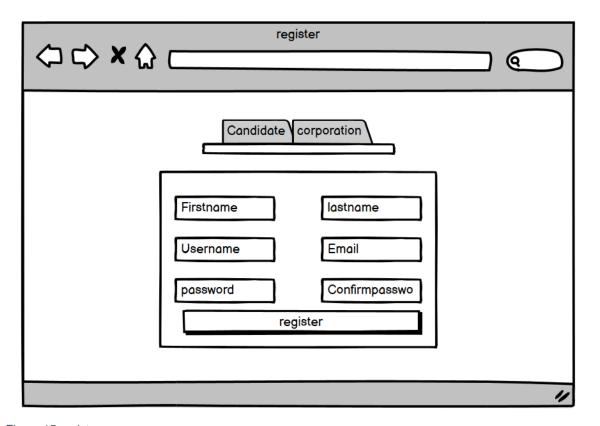


Figure 15:register page

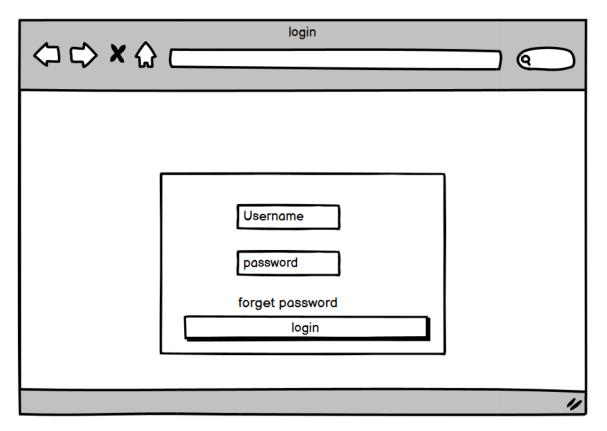


Figure 16:login page

Register	
Candidate	Corporation
FirstName	LastName
FirstName	LastName
UserName	email
UserName	email
Password	Confrom password
Check me out	
Si	ign In

Figure 17:front-end registerpage

Email address
We'll never share your email with anyone else.
Password
remember me forget password
Login

Figure 18:login web page



Figure 19:blog page post

Survey result

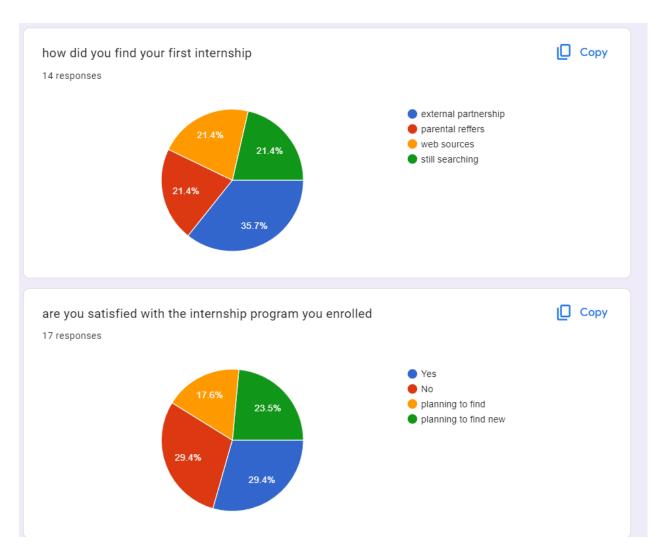


Figure 20:majority of students are unsatisffied

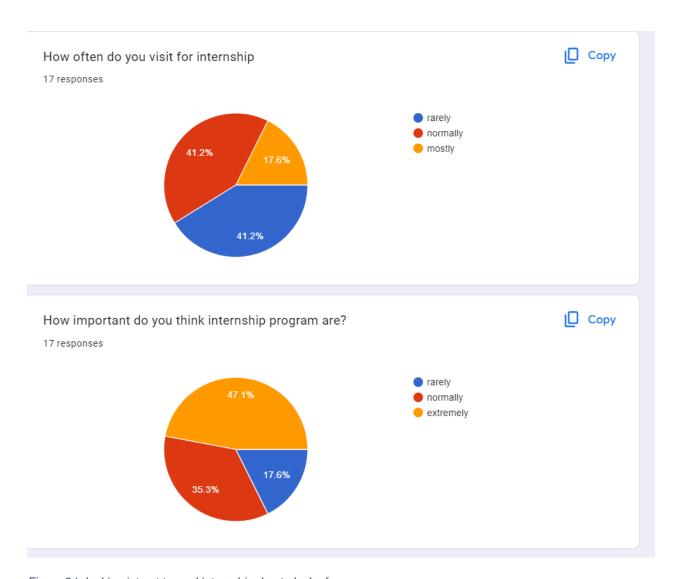


Figure 21::lacking intrest toward internship due to lack of sources

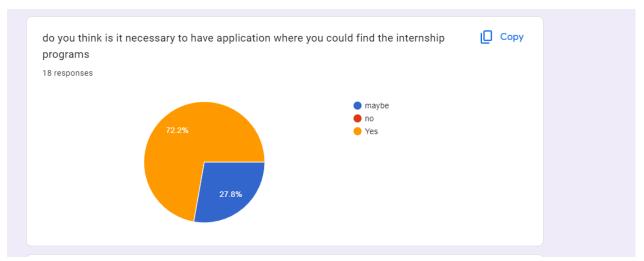


Figure 22:necessity of internship portal