TRIBHUVAN UNIVERSITY

FACULTY OF HUMANITIES AND SOCIAL SCIENCES

LALITPUR ENGINEERING COLLEGE

CODE CONNECT : CONNECT WITH CREATIVES

BY

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A PROJECT PROPOSAL

SUBMITTED TO THE DEPARTMENT OF COMPUTER APPLICATION

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR

THE DEGREE OF BACHELORS IN COMPUTER APPLICATION

DEPARTMENT OF COMPUTER APPLICATION

LALITPUR, NEPAL

JUNE, 2023

Tribhuvan University
Faculty of Humanities and Social Sciences

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Sushant Bramhacharya (LEC077BCA08)

Amit Maharjan (LEC077BCA01)

JUNE, 2023

Under the Coordination of

Er. Sandesh Sharan Poudel

RECOMMENDATION

The undersigned certify that they have read and recommend to the Department of Computer Application for acceptance, a project work entitled "**Code Connect : Connect with Creatives**", submitted by **Sushant Bramhacharya (LEC077BCA08) and Amit Maharjan (LEC077BCA01)** in partial fulfillment of the requirement for the award of the degree of "**Bachelors in Computer Application**".

_____

Project Coordinator

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June, 2023

DEPARTMENTAL ACCEPTANCE

The project work entitled "**Code Connect : Connect with Creatives**", submitted by **Sushant Bramhacharya (LEC077BCA08) and Amit Maharjan (LEC077BCA01)**in partial fulfillment of the requirement for the award of the degree of "**Bachelors of Computer Application**" has been accepted as a genuine record of work independently carried out by the student in the department.

_____

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June, 2023

ABSTRACT

Code Connect is a revolutionary social media platform made specifically to the needs of creative it professionals and developers. With a focus on collaboration, knowledge sharing, and networking, Code Connect serves as an interactive space where creative it professionals can connect with like-minded individuals, exchange ideas, and explore new opportunities within the coding community. The platform offers a user-friendly interface and a range of features designed to enhance the programmer's experience. Users can create personalized profiles to showcase their skills, experiences, and projects, attracting potential collaborators or employers. A comprehensive search and recommendation system allows users to discover discussions tailored to their interests and preferences. One of Code Connect's unique strengths is Messaging system. Real-time messaging facilitates productive discussions and timely feedback among peers. Furthermore, Code Connect encourages the sharing of code snippets, problems, and open-source projects. Users can publish their code, receive feedback, and collaborate on improvements, building a valuable repository of shared resources accessible to the entire coding community. In conclusion, Code Connect is a vital platform that connects creative it professionals, fosters collaboration, and facilitates growth within the coding community. By empowering creative it professionals to share knowledge, explore opportunities, and connect with peers, Code Connect aims to advance the programming industry as a whole both for newcomers and advanced ones.

Keywords: *Connection, Customized Profile, Discussion and Messaging*

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I am also grateful to my classmates and friends for offering me advice and moral support. To my family, thank you for encouraging me in all of my pursuits and inspiring me to follow my dreams. I am especially grateful to my parents, who supported me emotionally, believed in me and wanted the best for me.

 Sushant Bramhacharya (LEC077BCA08)
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LIST OF ABBREVIATIONS

ACID	Atomicity, Consistency, Isolation, Durability
BSD	Berkeley Software Distribution
CMS	Content Management System
CV	Curriculum Vitae
CSS	Cascading Style Sheets
DFD	Data Flow Diagram
DOM	Document Object Model
ER	Entity-Relationship
HTML	Hypertext Markup Language
IT	Information Technology
JS	JavaScript
MySQL	My Structured Query Language
OS	Operating System
PHP	Hypertext Preprocessor
SQL	Structured Query Language
UI	User Interface
UML	Unified Modeling Language
URL	Uniform Resource Locator
UX	User Experience

1 INTRODUCTION

1.1 Background

Code Connect serves as a social media hub tailored to the needs of IT enthusiast, aiming to fill the void of specialized functionalities on current social platforms. This unique platform provides a designated arena where IT professionals can unite, cooperate, and gain access to their own soical network.

1.2 Problem Statement

There are many general social media platforms available, but none of them are specifically designed for IT professionals. This means that IT professionals often have to use general platforms, which can be less effective for networking and collaboration. Most general social media platforms do not have dedicated spaces for IT professionals to share their resumes. This can make it difficult for IT professionals to get their resumes seen by potential employers. There are no specific resume management tools available for IT professionals. This means that IT professionals often have to use general resume management tools, which can be less effective for managing IT-related resumes.

There is no specific portfolio management tool available for IT professionals. This means that IT professionals often have to use general portfolio management tools, which can be less effective for managing IT-related portfolios. IT professionals are often underrepresented in other social media platforms. This can make it difficult for IT professionals to reach a wider audience and connect with other IT professionals. The challenges listed above can be even more difficult for new aspiring IT professionals. This is because new IT professionals may not have the same level of experience or connections as more experienced IT professionals.

1.3 Objectives
- Create a social media having normal functionalities and extra specifically for creative it professionals.

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1.4 Scope and Limitations

The app should provide a space for IT professionals to network with each other. This could be done through discussions or Messaging. Networking can help IT professionals to discover jobs, learn new skills, and stay up-to-date on the latest trends. The app should make it easy for new comers in field of IT. The app should offer a nice way to showcase their skill and projects. The app should have code snippets sharing and discussion. The app should have connection functions for connecting between peers, friends and seniors.

The concept of Code Connect holds promise in addressing a specific IT niche, but it must confront challenges. The competitive landscape might involve existing platforms with strong user bases, while persuading IT professionals to transition from established networks demands a compelling value proposition. The task of maintaining content quality and thwarting spam becomes intricate as the platform scales. Sustainable operation hinges on continuous resource allocation for development, maintenance, and support, requiring careful revenue generation that doesn't compromise user experience. Additionally, prioritizing robust privacy and security measures is crucial to alleviate IT professionals' concerns. Overcoming these obstacles necessitates strategic planning, adaptability, and an unwavering commitment to catering to the IT community's distinctive needs.

1.5 Potential applications

- Networking and Collaboration: IT professionals can connect with peers, mentors, and industry experts, fostering collaborations on projects, sharing insights, and expanding their professional network.

- Skill Development: Code Connect can share codes regarding to their problems and projects.

- Knowledge Sharing: Members can share code and resources related to programming languages, frameworks, tools, and best practices.

- Problem Solving: People can comment on problems stating solutions. 5. Mes-

saging: They can use code connect messenger to have private conversations.

1.6 Originality of Project

- Specialized Platform: Code Connect stands out by being a social media platform specifically designed for IT professionals, acknowledging their distinct requirements and expertise.

- Focused Niche: Unlike generic platforms, Code Connect targets the IT community exclusively, demonstrating a focused approach that caters directly to the needs of this specific audience.

- Unique Needs: The project pioneers by recognizing and addressing the unique challenges and aspirations that IT professionals encounter in their career paths, setting it apart from more generalized social networks.

- Tailored Experience: By tailoring features and content to the IT sector, Code Connect offers an environment that resonates with professionals in this field, enhancing engagement and relevance.

- Career Enhancement: Code Connect provides tools like specialized resume and portfolio management, facilitating the effective representation of IT professionals' skills and experiences to potential employers and collaborators.

- Empowerment and Growth: Through Code Connect, IT professionals are empowered to connect, learn, collaborate, and grow within a digital sphere that aligns with their expertise, fostering a sense of belonging and advancement.

1.7 Report Organisation

The material in this project report is organised into Four chapters. After this introductory chapter introduces the problem topic this research tries to address, chapter 2 contains the literature review of vital and relevant publications, pointing toward a notable research gap. Chapter 3 describes the methodology for the implementation of this project and models and methods. Chapter 4 provides an overview of

Implementation tools used. Chapter 5 contains conclusion of our study and expected outcome, Wheras APPENDIX A contains Gantt Chart and last one is references

2 BACKGROUND AND LITERATURE REVIEW

2.1 Background Study

We are looking for designs that make out system visually appealing and at the same time have better performance. As this system is mainly for creatives who can share their journey, we need to implement a profile system that shows off their portfolio and resume. Showcasing their skills should be easy so this system mainly focuses on functionalities implementations. We are looking for different tools and techniques for achieving those goals. We are also studying papers, articles, and related books for our project. We are also learning about implementation about messaging system. The proposed project is to create an app for creative it professionals where they can share their discussions, projects, skills, and perform messaging functions. To develop this app, it is important to understand code collaboration, tools for code sharing, and messaging functions.

2.2 Literature Review

2.2.1 Existing System

Social networks are like groups of people who know each other and interact with each other. The technology helps us study how people are connected to each other and how they talk to each other online. It also helps us understand the things they say and the information they share.[1]

LinkedIn

In today's competitive job market, organizations strive to identify and attract top talent, and this research investigates the influence of social media on the recruitment process. With the rapid growth of social media usage, it is crucial for organizations to understand effective strategies for attracting the best candidates. The study involved 12 recruiters from various industries, and the findings reveal heavy reliance on platforms like LinkedIn for recruitment purposes. However, the use of Twitter and Facebook for recruitment is comparatively lower. Recruiters need a focused approach when utilizing social media to manage the potential overwhelming volume of work. It is evident that recruiters cannot effectively conduct recruitment activities

without leveraging social media tools, but proper training in optimizing social media usage is essential. This study contributes to highlighting the significant impact of LinkedIn on recruitment processes, while also emphasizing that social media is not a one-size-fits-all solution for recruitment challenges.[2]

Stack Overflow

In Stack Overflow, A complete profile includes details such as a website URL, location, about me section, profile image, and age. Our analysis revealed that most users do not have a complete profile. However, users with complete profiles tend to have higher reputation scores and provide better quality question and answer posts compared to users with incomplete profiles. This suggests that having a complete profile is beneficial for contributing effectively to the network. Among the profile elements we examined, location and about me have a stronger relationship with user activity and contribution. This research helps us understand which profile elements are important in a Q and A social network and which ones should be prioritized for users to fill out regularly.[3]

GitHub

We examine the characteristics of developers involved in Open Source software creation to understand what factors contribute to innovation within the Open Source community. The analysis reveals that having a higher reputation within the community increases the likelihood of attracting collaborators, although developers are also motivated by reciprocity, aligning with the principles of a gift economy. Additionally, we find a significant network effect resulting from standardization, indicating that developers who use popular programming languages in their projects are more likely to collaborate with others. Furthermore, providing additional information, such as a valid URL to the developer's homepage, increases the chances of finding coworkers. These findings can be applied to the broader population of experienced users on platforms like GitHub.[4]

GitHub Discussions

GitHub has recently introduced a new feature called Discussions, which serves as a platform for developers to ask questions and engage in broader discussions that go beyond specific Issues. Before its widespread availability in December 2020, Discussions underwent testing on selected open source software projects. In order to gain insights into developers' utilization of this innovative feature, their perceptions of it, and its impact on the software development process, we conducted a comprehensive mixed-methods study involving early adopters of GitHub discussions between January and July 2020.Developers perceive GitHub Discussions as a valuable tool; however, they encounter challenges related to topic duplication between Discussions and Issues. This issue poses a concern, as it leads to confusion and redundancy in communication.[5]

2.2.2 Proposed System

The proposed system aims to address the drawbacks faced by existing systems by providing innovative solutions through CodeConnect. It seeks to give more exposure to new systems in the field, regardless of reputation, fostering a diverse and inclusive technology ecosystem. CodeConnect serves as a platform that connects developers and users, facilitating the showcase and collaboration of projects. By eliminating discrimination based on reputation, the system ensures equal opportunities for all developers. Additionally, it aims to reduce redundancy by encouraging collaboration, knowledge sharing, and reusability of code and ideas. This approach promotes efficiency and avoids duplication of effort. Overall, the system aims to overcome limitations, promote new systems, encourage fairness, and enhance productivity in the technology industry through CodeConnect's inclusive and collaborative environment.

3 SYSTEM DESIGN AND ANALYSIS

3.1 System Development Approach

An incremental approach, also known as an iterative or step-by-step approach, is a development or problem-solving method that breaks down a larger task or project into smaller, manageable increments or steps. Rather than attempting to tackle the entire task at once, an incremental approach focuses on making incremental progress by completing and delivering smaller portions of work in a series of iterations.

- Initial Planning and Requirements Gathering

- Increment Planning and Design

- Development and Implementation

- Testing and Quality Assurance

- Evaluation and Feedback

- Iterative Development and Refinement

- Deployment and Release

- Repeat the Process for Subsequent Increments

3.2 Requirement Analysis

3.2.1 Functional Requirements

The functional Requirements of our project code connect is mentioned below:

- User Registration/Login: Users will have the option to create an account or log in using their email addresses or phone numbers. This streamlined process ensures that IT professionals can easily access the platform and connect with their peers.

- User Profile Management: Within the profile management section, users will have the ability to showcase their expertise. Portfolio management enables users to upload and highlight their project details hosted on platforms like

GitHub, giving others insight into their skills and contributions. Additionally, the resume management feature allows users to present their skills, experience, and achievements in a structured manner.

- Connection Management: The platform fosters networking by allowing users to send and receive connection requests. This feature encourages the growth of professional relationships and collaboration within the IT community.

- Discussion/News Feed: The discussion and news feed serve as a dynamic space for users to share knowledge, insights, and code snippets. Users can post discussions and engage with others by 'Geeking' (similar to liking on Facebook) posts, as well as commenting to facilitate meaningful conversations.

- Messaging (Code Connect Messenger): The private messaging functionality, known as "Code Connect Messenger," enriches communication. Users can exchange private messages, fostering collaboration, mentorship, and confidential discussions within a secure environment.

- Notifications: The notifications feature keeps users engaged and informed about interactions on the platform. Users will receive notifications for activities such as receiving 'Geeks' on their posts, receiving comments, and receiving private messages. This ensures that users stay updated on relevant interactions and stay engaged with the platform's activities.

3.2.2   Nonfunctional Requirements

The non functional Requirements of our project code connect is mentioned below:

- Performance Enhancement: Our focus on performance involves minimizing reliance on external frameworks and modules. By reducing the use of these components, we aim to streamline the software's execution, resulting in better overall performance and responsiveness.

- Authentication Security: Security is a paramount concern. To enhance the platform's security, we will implement advanced authentication algorithms,

particularly focusing on hashing techniques within the PHP programming environment. This ensures that user authentication data is stored and managed in a highly secure manner.

- Better UX Design: User experience is central to our project's success. Our emphasis on better UX design means that every aspect of the platform's interface, from navigation to interaction, will be meticulously crafted to ensure a seamless and intuitive experience. This design approach caters not only to experienced users but also to newcomers, ensuring that all users can effortlessly navigate and engage with the platform.

- Responsive Site: Recognizing the diverse range of devices and browsers that users utilize, we are committed to creating a responsive website. This means that the platform's design and functionality will adapt flawlessly to various screen sizes, ensuring that users can access and interact with the platform effectively, whether they are using a desktop computer, tablet, or smartphone. This responsiveness guarantees a consistent and satisfying experience across different devices and platforms, promoting accessibility and usability.

3.3   Feasibility Analysis

A feasibility study is a systematic and structured analysis conducted to determine the viability and practicality of a proposed project plan. It serves as an evaluation tool to assess whether the project can be successfully implemented and if it aligns with the project's goals and objectives. It involves gathering and analyzing relevant information to determine if the project is technically feasible, operationally feasible, economically feasible, and scheduling feasible.

3.3.1   Economical Feasibility

Since the system we are developing is a web application, we will be using free and open-source software development tools such as HTML,CSS,JS, PHP, MySQL, VS Code and Figma. We will only need some economy for server for hosting if we want to host it live.

3.3.2 Operational Feasibility

Operational feasibility for the proposed system focuses ease of use. As the system is designed to be interactive, users do not require in-depth knowledge of the web app to navigate and utilize its features. The user interface (UI) is specifically designed to be user-friendly, ensuring a smooth and intuitive experience. This approach minimizes the need for extensive training and reduces potential resistance from users. Even new commers cna use it without any problem or difficulties.

3.3.3 Technical Feasibility

There are several development technologies available. For frontend development, we have HTML,CSS,JS and React JS. For backend development, we have PHP along with the MySQL database. In our application, we have utilized HTML,CSS,JS, for the frontend and PHP with MySQL for the backend. Both HTML,CSS,JS, and PHP are open-source technologies and are supported by large companies with vibrant communities. This ensures that technical support and resources are readily available. Considering the chosen technologies and their strong community backing, the project is technically feasible.

3.4   System Design

3.4.1   Architecture Design

The following diagram shows diagram of our Architecture. Mainly shows what are
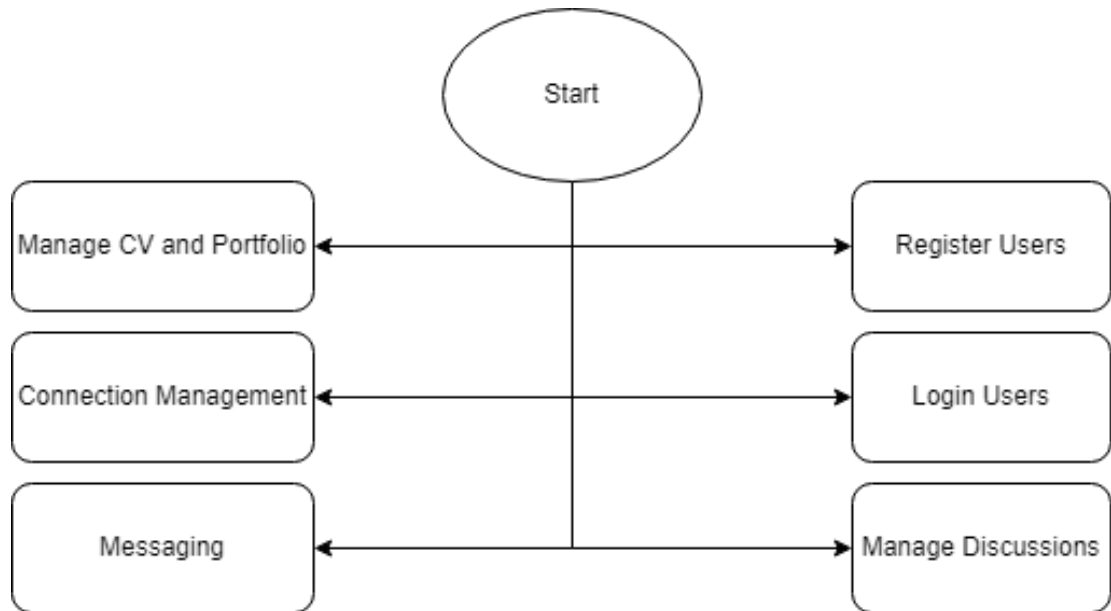the functions can be accessed after starting our application.

Figure 3.1: Main Architecture of System

3.4.2 Data Modelling(ER-Diagram)

ER Diagram is mainly used to design database schema. With the help of below er diagram we can easily design database in SQL.
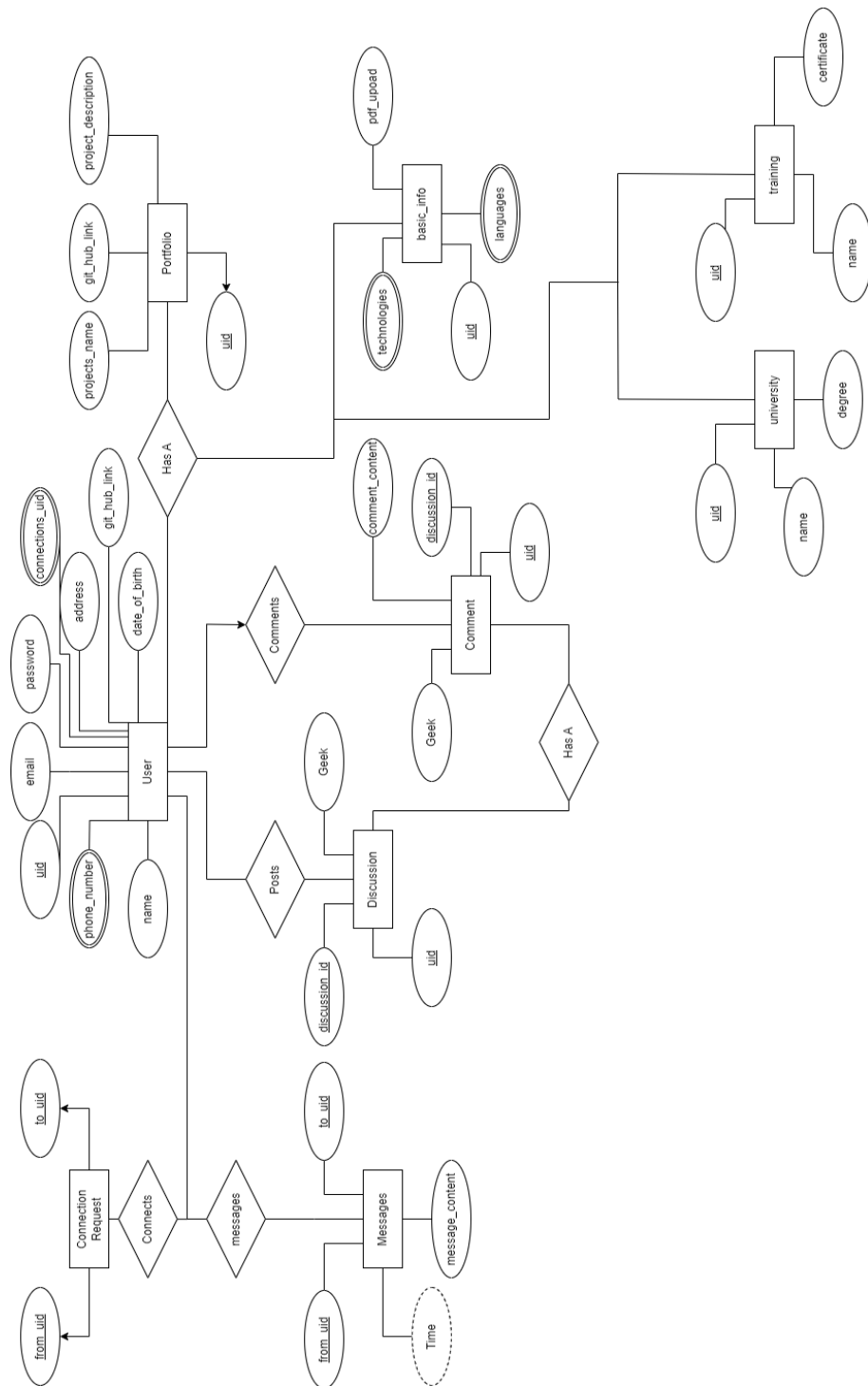

Figure 3.2: ER Diagram of System Data

3.4.3 Activity Diagram

An activity diagram visually presents a series of actions or flow of control in a system similar to a flowchart or a data flow diagram. This diagram showed how our program flow goes on.
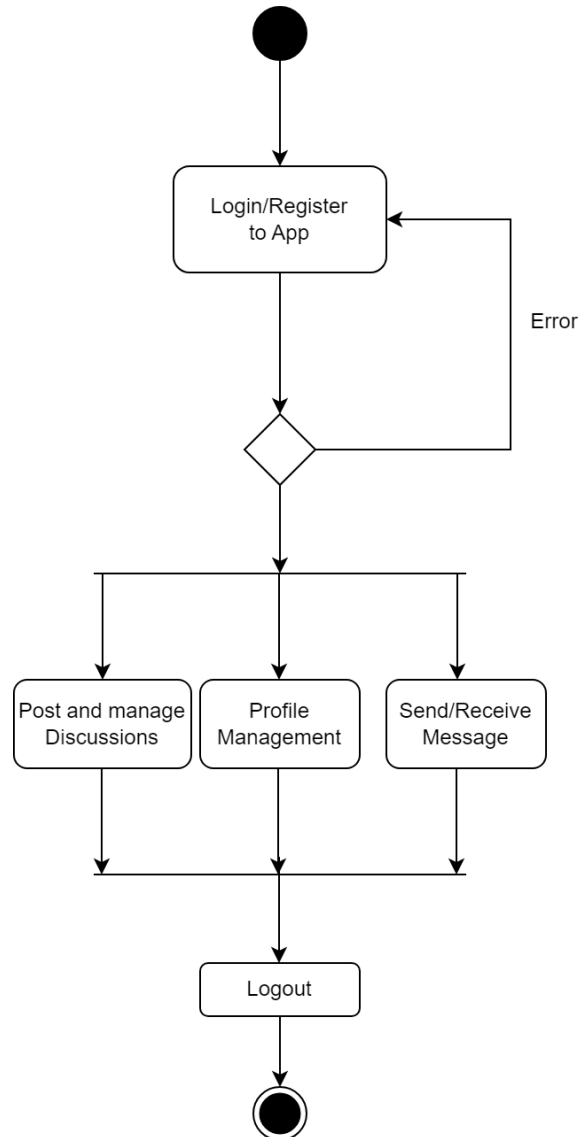
Figure 3.3: Activity Diagram

3.4.4 DFD

DFD or Data Flow Diagram is mainly used to show how data are being flowed in and out of our system. There are 3 levels of DFD i.e Context Level(Level 0),Level 1 and Level 2
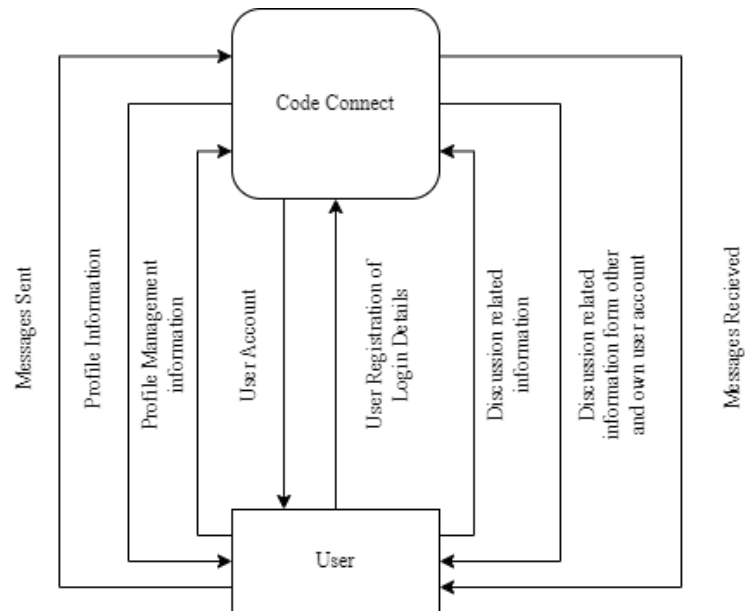

Figure 3.4: Data Flow Diagram (Context Level)

3.4.5 Use Case Diagram

A use case diagram, part of UML, visually represents interactions between actors and a system. Actors are external entities, while use cases depict specific functionalities. Relationships, such as association, generalization, include, and extend, illustrate connections between actors and use cases. The diagram helps in understanding system behavior, requirements, and scope.
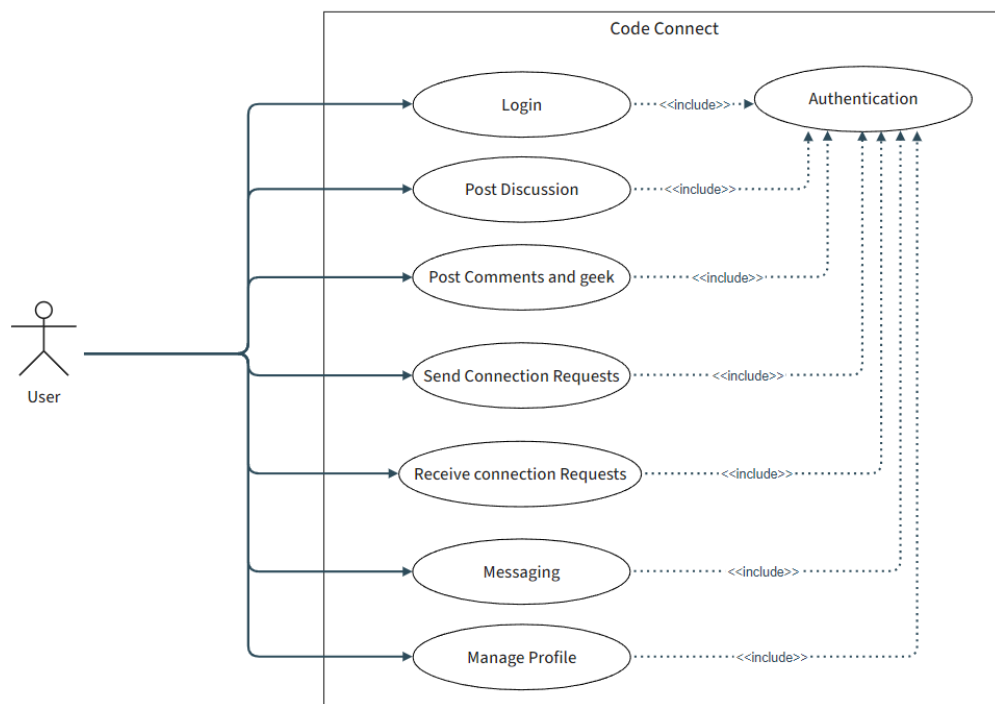

Figure 3.5: Use Case Diagram

4   IMPLEMENTATION and Testing

4.1   Implementation

"Code Connect" is a delightful online space where programmers come together to share ideas and experiences. Using tools like HTML, CSS, and JavaScript, we've built a website that's easy to use and fun to explore. Behind the scenes, PHP and MySQL work like magic to handle all the information. With React.js, everything feels smooth and interactive, just like chatting with friends. It's not just about technology – it's about people connecting and learning from each other. Just like baking a tasty treat, we've mixed all these ingredients to create something special that everyone can enjoy.

4.2   Tools Used

Git

Git is a version control system essential for software development and collaborative projects. It efficiently manages changes to files by recording them as "commits," enabling easy tracking and reverting to previous versions. Git's power lies in fostering collaboration, allowing multiple individuals to work on projects simultaneously through branches. These branches facilitate independent development, and Git's merging capabilities seamlessly integrate diverse changes into the main codebase. Its historical recording acts as a backup and recovery mechanism, safeguarding against data loss. Moreover, Git promotes code reviews, enabling precise feedback on proposed changes, and enhancing overall code quality. The isolation of work in separate branches reduces conflicts and enhances focus. It's especially popular in the open-source community, aiding global contributors to collaborate via forks and pull requests. Git's integration with CI/CD pipelines automates testing and deployment, making it an integral part of modern development processes. In essence, Git empowers teams with version control, collaboration tools, and an efficient system to manage changes, fostering productive and streamlined project development.

Figma

Figma is a cloud-based design and prototyping tool widely used for creating user in-

terfaces and interactive designs for web and mobile applications. Its standout feature is real-time collaboration, allowing multiple users to work simultaneously on the same design, fostering seamless teamwork. With versatile design tools encompassing vector editing, typography controls, and color management, Figma empowers designers to craft intricate layouts and visually appealing interfaces. Interactive prototypes can be developed with clickable elements, animations, and transitions, aiding in simulating user interactions and presenting functionality. Component and style libraries ensure design consistency and efficiency, while design handoff is simplified through easy sharing of specs, assets, and CSS properties. Figma promotes stakeholder engagement by facilitating user testing and feedback collection within the platform. It extends its functionality through a wide range of plugins and integrates with various design and development tools, accommodating diverse workflows. Cross-platform compatibility, version history, and undo capabilities contribute to a flexible and efficient design process. Overall, Figma's collaborative, versatile, and user-centric features make it a valuable asset for teams aiming to deliver compelling digital experiences.

GitHub

GitHub is a web-based platform pivotal to software development, offering version control and collaboration tools. It employs Git for version control, tracing code changes and preventing conflicts, while hosting repositories to centralize code storage and collaboration. Through collaborative development, multiple developers can work concurrently on a project, making changes in separate branches and merging them into the main codebase. Pull requests enable proposed changes to undergo review and discussion before integration, ensuring code accuracy. An integrated issue tracker handles bug reports, feature suggestions, and project discussions, while wikis and documentation enhance accessibility. GitHub seamlessly integrates with CI/CD tools for automated testing and deployment. Popular in the open-source realm, it encourages community participation by enabling contributions and project forks. Security measures include vulnerability scanning and permissions management. In

essence, GitHub serves as a collaborative hub for version control, code management, issue tracking, and community involvement, empowering efficient, high-quality software development.

HTML, CSS, JS, and React Js

- HTML (Hypertext Markup Language): HTML is the foundational language used to create the structure of web content. It uses a system of tags to define elements like headings, paragraphs, links, images, and more. These tags give structure to web pages, organizing content into a meaningful layout. HTML provides the framework for displaying information and forming the basis for user interaction on the web.

- CSS (Cascading Style Sheets): CSS is a styling language that complements HTML by controlling the visual presentation of web content. It allows developers to define colors, fonts, margins, borders, and other design aspects of HTML elements. By separating content from presentation, CSS enables consistent styling across web pages and enhances user experience through improved aesthetics and readability.

- JavaScript (JS): JavaScript is a versatile scripting language used to add interactivity and dynamic behavior to web pages. It enables developers to create responsive features such as form validation, animations, pop-ups, and real-time updates. JS executes directly in the browser, allowing users to interact with web content without requiring page reloads. It's a crucial component for creating engaging and interactive web experiences.

- React.js: React.js is a JavaScript library developed by Facebook for building user interfaces. It allows developers to create reusable UI components, which are building blocks that encapsulate specific functionality and can be used across different parts of a web application. React's virtual DOM (Document Object Model) optimizes rendering by updating only the necessary parts of

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the interface, leading to better performance. It encourages a component-based
architecture, making it easier to manage and maintain complex user interfaces.

MySQL

MySQL is an amazing open-source relational database management system (RDBMS)
that's super popular for organizing and handling structured data like a pro. It's like
a superhero for managing loads of information, whether you're building websites
or business tools. The cool thing is that MySQL speaks a special language called
SQL (Structured Query Language), which lets you create, tweak, and ask questions
about databases. You can set up tables, make connections between data, and do
fancy searches with ease. It's got your back with features like making sure data is
legit, indexing for quick data finding, and even handling transactions so things stay
reliable. MySQL's built to let lots of people work on data together, all while keeping
things secure and controlled. Whether you're building something small or a massive
enterprise project, MySQL's got the chops to handle it all. With its adaptability,
community support, and knack for playing nice with other tech, MySQL is your
go-to tool for wrangling data and making applications that really work.

PHP

In the realm of web development, PHP emerges as a scripting language that com-
mands attention. As the author of this report, I find myself captivated by PHP's
capabilities and its pivotal role in creating dynamic and interactive websites. Picture
a scenario where a website needs to process forms, communicate with databases,
or display content that adapts to user actions – this is where PHP steps onto the
stage. Seamlessly integrated with HTML, PHP empowers websites to exhibit a
range of enchanting functionalities. It bestows the power to build responsive forms
that wield actual functionality, to interact with databases effortlessly, and to breathe
life into web content through dynamic displays that transform in real-time. The
beauty of PHP lies in its collaborative spirit; being open-source, it's akin to having a
community of like-minded developers ready to offer assistance and guidance. For
novices and seasoned developers alike, PHP serves as a formidable tool, amplifying

the potential of web projects with its prowess in functionality and innovation. As I delve into the intricacies of PHP, I am compelled to highlight its role as a cornerstone in modern web development, an indispensable asset for crafting websites that stand out in the digital landscape.

4.3   Modules Used

AJAX

In the dynamic realm of web development, AJAX (Asynchronous JavaScript and XML) emerges as a groundbreaking technique that has redefined the way web pages engage with servers to deliver content. As the author of this report, I find myself captivated by the transformative capabilities that AJAX introduces to the digital landscape. With AJAX, the marriage of JavaScript and server communication takes on a new dimension, offering a seamless and asynchronous mode of data exchange. Unlike conventional methods that demand full page reloads to update content, AJAX empowers developers to fetch and transmit data in the background, gracefully refreshing specific sections of a web page without disrupting the user experience. A notable aspect of AJAX is its compatibility with various data formats, such as XML and JSON, which facilitate efficient and reliable data transmission. This versatile technique enables real-time updates, form submissions, and content loading that harmonize with users' actions. In essence, AJAX endows web applications with a dynamic, responsive, and interactive nature that echoes the sophistication of traditional desktop applications, elevating user engagement and propelling the field of modern web development into a new era of possibilities.

JQuery

Embarking on the journey of web development, one encounters jQuery as an influential player that has transformed the way we interact with HTML, CSS, and JavaScript. In the realm of crafting dynamic and interactive web experiences, I am intrigued by the capabilities that jQuery, as a fast, small, and feature-rich JavaScript library, brings to the forefront. As a contributor to this report, I find myself immersed in

the profound impact that jQuery has on simplifying complex tasks and enhancing user interaction. By providing a streamlined way to manipulate the Document Object Model (DOM), jQuery empowers developers to effortlessly select, modify, and animate HTML elements. Its user-friendly syntax and extensive range of built-in functions alleviate the challenges posed by cross-browser compatibility issues, allowing seamless development across various platforms. Moreover, jQuery's plugin ecosystem magnifies its potential, offering a plethora of pre-built functionalities that can be easily integrated into projects. The library's essence lies in abstracting intricate JavaScript operations into concise commands, resulting in cleaner code and expedited development cycles. Through its capabilities in event handling, animations, and AJAX requests, jQuery serves as a catalyst for elevating user experiences and accelerating the creation of captivating, feature-rich web applications.

MySqli Connect

In the domain of web development and database connectivity, the mysqli_connect function emerges as a cornerstone tool that I find fascinating to explore. As the author of this report, I'm intrigued by the pivotal role that mysqli_connect plays in establishing a seamless link between web applications and MySQL databases. This function, nestled within the PHP programming language, holds the power to initiate secure connections to databases, enabling the retrieval and manipulation of data. By providing parameters such as the database host, username, password, and database name, developers gain the ability to effortlessly establish a communication channel with MySQL servers. This function's significance lies in its contribution to the dynamic generation of interactive web applications, as it forms the foundational bridge for data-driven features and functionalities. With mysqli_connect, I am captivated by its influence in shaping efficient and responsive web experiences, making it a cornerstone component in the realm of modern database-driven web development.

Google Fonts

In the context of web design and typography exploration, I've had the privilege of

discovering the transformative capabilities of Google Fonts. As I delve into this subject for our report, I'm genuinely impressed by the role Google Fonts plays in revolutionizing the way we approach text presentation on the web. The vast array of fonts available at our fingertips, curated with precision and diversity, has left a lasting impression on me. Google Fonts not only addresses the creative aspirations of designers but also places user experience at the forefront by promoting accessible and visually appealing text choices. With an intuitive interface and seamless integration, the process of embedding selected fonts into projects feels intuitive and user-friendly. The cherry on top is a performance optimization, ensuring that the aesthetic enhancements don't compromise website speed. My exploration of Google Fonts underscores its significance as a valuable asset in the design arsenal, enhancing both the aesthetics and accessibility of web content in a meaningful way.

Font Awesome

Navigating the realm of web design and user interface enhancement, I've been captivated by the remarkable utility that Font Awesome offers. As I delve into the depths of this report, I find myself immersed in the significance of Font Awesome's icon library in modern web development. The array of icons, meticulously crafted and encompassing a wide spectrum of categories, has truly left an impression on me. Font Awesome not only simplifies the process of integrating icons into web projects, but it also adds a layer of visual appeal and functionality that resonates with users. The convenience of using CSS classes to seamlessly incorporate icons and the option to customize their size, color, and style gives designers a dynamic toolbox for creative expression. What intrigues me further is its compatibility with various frameworks and platforms, making it a versatile choice for both beginners and seasoned developers. As I examine the impact of Font Awesome on enhancing user experiences, I'm struck by its ability to add depth and meaning to digital interfaces, making it an indispensable asset in the journey of crafting captivating and user-centric web applications.

4.4 Testing

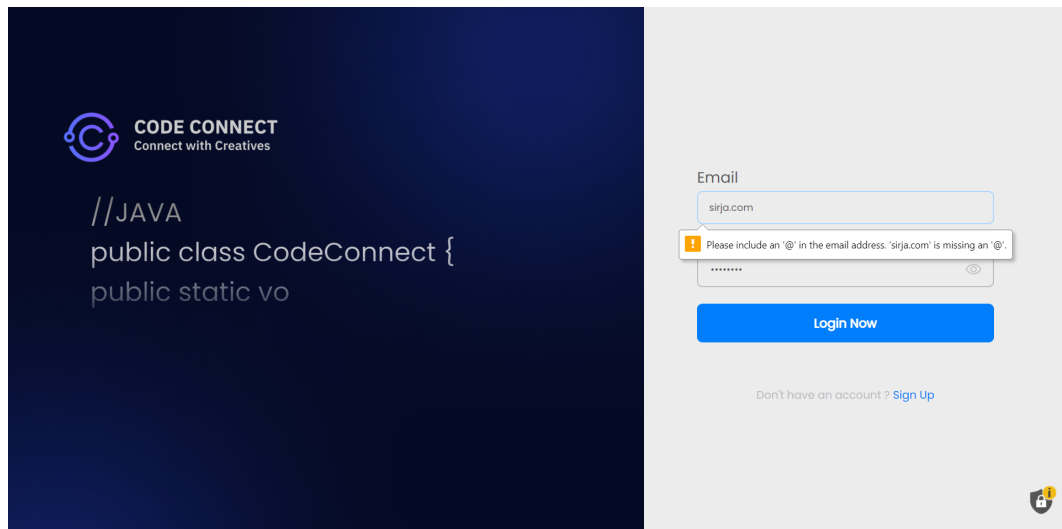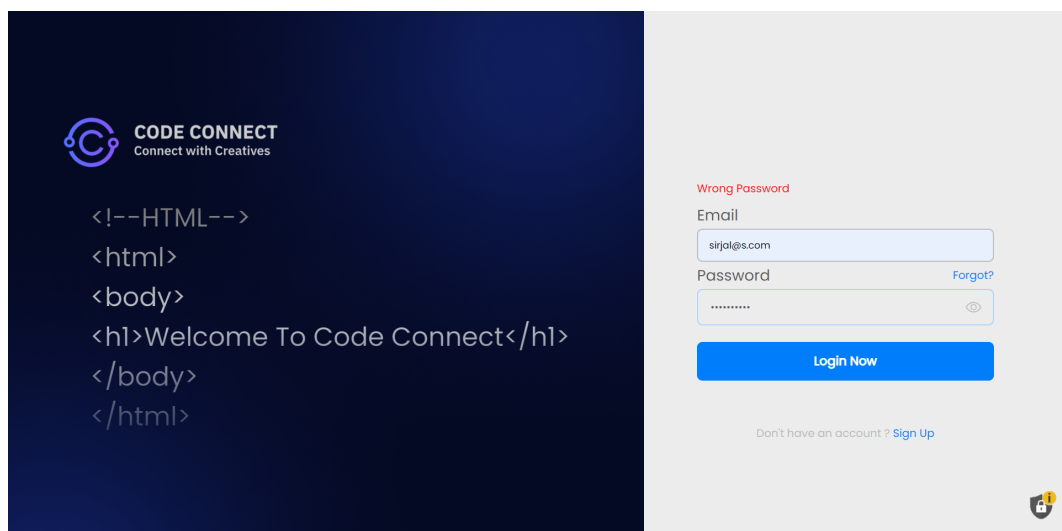| Tests	Test Cases	Input	Output
1	Incorrect email Format	sirja.com	Incorrect email
2	Incorrect Password	12345679	Wrong Password
3	Incorrect Confirm Password	12345679/12345678	Enter Same Password

Figure 4.1: Test Case 1

Figure 4.2: Test Case 1

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Figure 4.3: Test Case 1

5 CONCLUSION AND EXPECTED OUTCOMES

5.1 Limitation

- Our system doesnt have more interactive message system.

- We cannot upload videos in our system.

- Our system does not have a robust notification system. Users are only notified when they receive a new message or when someone geeks or comments on their post.

5.2 Conclusion

Code Connect is a social networking web application designed specifically for creative it professionals. It should transform the way developers connect, collaborate, and learn from each other. The platform provides a range of features that allow creative it professionals to network, share knowledge, and enhance their skills. Code Connect also fosters a vibrant and inclusive resume and portfolio management system.

5.3 Expected Outcome

Code Connect is a platform that aims to create a thriving community of creative it professionals who can connect, collaborate, and learn from each other. The platform provides tailored features that facilitate meaningful interactions and knowledge exchange among its users. Through Code Connect, creative it professionals can expect to expand their professional network, gain insights from experienced peers, and receive support from the community. They can engage in discussions, seek advice, and offer assistance. Code Connect also aims to accelerate the professional growth of its users by providing access to valuable resources, tutorials, and learning opportunities. By connecting with like-minded individuals and staying up-to-date with the latest trends and technologies, creative it professionals can enhance their skills and advance their careers. The platform's expected outcome is to create a vibrant and supportive ecosystem that empowers creative it professionals and enriches their professional lives. In this complex world of technologies new peoples

who are intrested in the field of technology face alot of difficulties. So they will also have exposure with the help of out technology.

APPENDIX A

A.1 Project Schedule

Below is the Gantt chart of our project Schedule. We have planned to perfrom these specific tasks between these time frames.

PROCESS	2023					
	April	May	June	July	August	September
Requirement Gathering	▓					
Designing		▓				
Coding			▓▓▓			
Testing					▓	
Documentation						▓
Maintenance						▓

Figure A.1: Gantt Chart of Schedule

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