ONLINE INTERACTIVE ENTREPRENEUR CLUB

A PROJECT REPORT

Submitted by,

Ms. Savitri Hiremath - 20201CSE0877

Ms. Nandini S H - 20201CSE0898

Ms. Ranjitha S - 20201CSE0904

Ms. Ganapriya H S - 20201CSE0046

Under the guidance of,

Mr. JERRIN JOE FRANCIS

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

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At

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PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the Project report **"ONLINE INTERACTIVE ENTREPRENUER CLUB"** being submitted by "SAVITRI HIREMATH, NANDINI S H, RANJITHA S, GANAPRIYA H S" bearing roll number(s) "20201CSE0877, 20201CSE0898, 20201CSE0904, 20201CSE0046" in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

Mr. JERRIN JOE FRANCIS
Assistant Professor
School of CSE
Presidency University

Dr. PALLAVI R
Associate Professor & HOD
School of CSE
Presidency University

Dr. C. KALAIARASAN
Associate Dean
School of CSE&IS
Presidency University

Dr. L SHAKKEERA
Associate Dean
School of CSE&IS
Presidency University

Dr. SAMEERUDDIN KHAN
Dean
School of CSE&IS
Presidency University

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE & ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **ONLINE INTERACTIVE ENTREPRENUER CLUB** in partial fulfilment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Mr. Jerrin Joe Francis, Assistant Professor, School of Computer Science Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

NAME	ROLL NO	SIGNATURE
SAVITRI HIREMATH	**20201CSE0877**	
NANDINI S H	**20201CSE0898**	
RANJITHA S	**20201CSE0904**	
GANAPRIYA H S	**20201CSE0046**	

ABSTRACT

Entrepreneurs, the driving force behind economic dynamism, epitomize innovation and ambition. In the ever-evolving business landscape, their endeavors shape industries and fuel societal progress. Recognizing the critical role entrepreneurs play, the need for a dedicated platform becomes imperative. The Entrepreneurs' Interactive Club emerges as a pivotal space, providing entrepreneurs with a dynamic ecosystem to connect, collaborate, and secure vital funding. As entrepreneurs navigate the complexities of business, this platform serves as a beacon, simplifying the process of networking and partnership. The introduction of a Funding Platform within this ecosystem further addresses the inherent challenges of securing financial support, offering entrepreneurs a streamlined avenue to present their ideas to potential investors. The introduction of a Funding Platform within this ecosystem not only addresses the inherent challenges of securing financial support but also provides entrepreneurs with a streamlined avenue to present their ideas to potential investors. By leveraging machine learning, we aim to enhance this platform further, assisting investors in making informed funding decisions. The application of machine learning algorithms will enable us to analyze and evaluate entrepreneurial proposals, offering valuable insights to investors and contributing to a more efficient and data-driven funding process. With a commitment to user experience and security, this project promises to redefine the entrepreneurial landscape, offering a transformative space for enhanced connectivity, accessible funding opportunities, innovation and growth.

ACKNOWLEDGEMENT

First of all, we are indebted to the **GOD ALMIGHTY** for giving us an opportunity to excel in our efforts to complete this project on time.

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Savitri Hiremath

Nandini S H

Ranjitha S

Ganapriya H S

LIST OF FIGURES

TABLE OF CONTENTS

CHAPTER-1
INTRODUCTION

1.1Background

Entrepreneurs, the pioneers of innovation, stand at the forefront of economic progress.These visionary individuals navigate the dynamic landscape of business, driven by a relentlessspirit to create, innovate, and shape industries. In their pursuit of groundbreaking ideas, entrepreneurs embody the essence of resilience, risk-taking, and the transformative power of ideas. As catalysts for change, they are instrumental in driving economic growth, job creation, and societal advancement.

Entrepreneurs face a range of challenges, including limited funding opportunities and difficulties collaborating within their industry. Securing enough funds for business endeavors often proves to be a significant hurdle, hindering their ability to turn visionary ideas into reality. Building partnerships within the industry can be challenging, limiting growth opportunities and potential collaborations. Furthermore, limited connectivity with peers in the domain restricts networking opportunities, shared insights, and mutual support, presenting obstacles in navigating the entrepreneurial landscape efficiently. In response to these challenges, the Entrepreneurs Interactive Club emerges as a multifaceted solution hub, providing accessible funding avenues, fostering collaboration and enhancing connectivity for entrepreneurs to thrive in the dynamic entrepreneurial ecosystem.

1.2 Brief History of Concept

Traditionally, entrepreneurs relied on personal networks and faced difficulties in finding suitable collaborators within their industry. Identifying funding opportunities and staying updated on market trends were manual, time-consuming tasks. In response to these challenges, the Entrepreneurs Interactive Club emerged. This dynamic platform revolutionizes how entrepreneurs connect, fostering collaboration, providing accessible funding avenues, and offering resources. The club represents a shift from traditional, labor-intensive methods to a modern, technology-driven approach, empowering entrepreneurs to navigate the competitive business landscape more efficiently.

1.3 Applications

The Entrepreneurs Interactive Club, the system we hope to build is designed for real-world applications, offers a trans-formative solution for entrepreneurs

- Entrepreneurs can discover and connect with like-minded individuals in their industry, fostering collaborations and potential partnerships.
- The platform provides a gateway for entrepreneurs to explore and secure diversefunding opportunities, facilitating the realization of innovative ideas.
- The club serves as a dedicated space for entrepreneurs to network, share experiences, and gain valuable insights, overcoming the challenges of limited connectivity within the domain.

1.4 Research Motivation and Problem Statement

1.4.1 Research Motivation

The conventional method for connecting entrepreneurs and collecting funding relies onmanual efforts, where individuals have to actively search and analyze potential collaborationsand funding opportunities. This makes it a time-consuming and challenging task, often leadingto missed connections and funding prospects. To address these limitations, there arises a clear need for an automatic and proactive Entrepreneurs Interactive Platform, streamlining the process, enhancing efficiency, and facilitating timely and meaningful connections among entrepreneurs, as well as simplifying the funding collection process.

1.4.2 Problem Statement

To enhance entrepreneurial connections, the Entrepreneurs Interactive Club employs machine learning models to assist investors in funding entrepreneurs. The platform facilitatesefficient connections, offers funding opportunities, and a wealth of resources to fostermeaningful collaborations within the entrepreneurial ecosystem. The project's aim is to createa user-friendly platform that not only connects entrepreneurs but also assists in finding suitablefunding opportunities for investors, thereby supporting the growth and success of entrepreneurial endeavors.

1.5 Research Objectives and Contributions

1.5.1 Primary Objectives

Ensure the platform's capabilities to serve as a holistic support system, addressingconnection, collaboration and funding challenges. Designing an automated Entrepreneurs Interactive Platform based on machine learningmodels to support investors in discovering funding opportunities.

Implement strong security measures to protect user data, guaranteeing a safe and secure environment for entrepreneurs to connect and collaborate on the platform. Developing a web-based format for global accessibility, ensuring entrepreneursworldwide can benefit from the platform's features.

1.5.2 Major Contributions

The major contributions of this platform are centered around creating a unified space for users to connect, collaborate, and access resources seamlessly. By integrating funding assisting model, the platform enhances domain categorized data and offers recommendationsbased on ranking. It simplifies networking, addresses collaboration challenges, and provides accessible funding opportunities.

1.6 Summary

The project aims to create a user-friendly space for entrepreneurs, using smart technology to simplify networking, collaboration challenges and provide funding opportunities. The report presents a comprehensive description of the literature survey, system requirements specifications, design, implementation, testing, and results of the project.

CHAPTER-2
LITERATURE SURVEY

[1] Social Media Analysis with Machine Learning

Authors: A. M. Khasanova and Pasechnik

Published in: 2021 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (ElConRus), St. Petersburg, Moscow, Russia

Merits:

This paper delves into social media analysis using machine learning techniques. The study holds promise in advancing our understanding of the applications and implications of machine learning in the context of social media. It contributes to the evolving field by exploring the intersection of social media and advanced analytics.

Challenges:

While the paper showcases merits, challenges may include the need for a more detailed exploration of specific machine learning methodologies employed. Providing insights into the practical implications of the findings and potential real-world applications would enhance the paper's value.

[2] Entrepreneurship in and around Institutional Voids: A Case Study from Bangladesh

Authors: Mair and I. Marti

Published in: Journal of Business Venturing

Merits:

The study provides valuable insights through a focused case study on entrepreneurship in Bangladesh. It illuminates nuanced challenges for entrepreneurs in developing economies, offering significant perspectives on entrepreneurial dynamics.

Challenges:

Despite its merits, the study faces inherent limitations of case studies, limiting generalizability. Enhancing relevance by addressing the temporal aspect and considering changes over time is crucial.

[3] Saudi Female Entrepreneurs, Situation and Challenges

Authors: H. Alsulami and R. Abutaha

Published in: 2018 Portland International Conference on Management of Engineering and Technology (PICMET), Honolulu, HI, USA

Merits:

This study explores the situation and challenges faced by Saudi female entrepreneurs. The focused examination provides valuable insights into the unique aspects of entrepreneurship in the Saudi context, shedding light on the experiences and obstacles like funding encountered by women entrepreneurs.

Challenges:

Despite its merits, the study may face challenges in generalizability beyond the specific Saudi context. An enhanced exploration of the identified challenges and potential solutions could strengthen the paper's practical implications.

[4]How entrepreneurial SMEs compete through digital platforms: The roles of digital platform capability, network capability, and ambidexterity

Authors: Javier Cenamor, Vinit Parida, Joakim Wincent

Published in: Journal of Business Research, 2019/04/03

Merits:

This study explores how entrepreneurial SMEs excel in the digital landscape. Focusing on digital platform capability, network capability, and ambidexterity, the research provides key insights into the strategies driving competitiveness. It significantly contributes to understanding how small and medium-sized enterprises leverage digital platforms for a competitive edge.

Challenges:

While valuable, a deeper dive into SME strategies on digital platforms would enhance practical insights. More exploration of real-world implications and challenges faced by SMEs in the digital realm would strengthen the paper. How Entrepreneurial SMEs Compete through Digital Platforms: The Roles of Digital Platform Capability, Network Capability, and Ambidexterity effectively through digital platforms.

[5] Toward entrepreneurial pedagogies: Rethinking professional networking as knowledge making

Authors: B. Lauren, S. Pigg

Published in: 2016 IEEE International Professional Communication Conference (IPCC),Austin, TX, USA

Merits:

Presented at the 2016 IEEE International Professional Communication Conference, the study delves into rethinking professional networking as a form of knowledge creation. The paper offers valuable insights into the intersection of entrepreneurial education and professional networking, challenging traditional perspectives and paving the way for innovative pedagogical approaches.

Challenges:

While commendable, the paper's abstract doesn't provide specific details about the methodologies or specific cases explored. A more in-depth examination of practicalexamples or case studies could enhance the paper's applicability.

[6] The impact of social networks on technology entrepreneurs' opportunity recognition process

Authors: W. Lim, Y. Lee

Published in: 2019 7th International Conference on Information and Communication Technology (ICoICT), Kuala Lumpur, Malaysia

Merits:

The study explores the intricate relationship between social networks and the identification of entrepreneurial opportunities within the technology sector. The paper contributes valuable insights into the dynamics that shape entrepreneurs' perceptions and actions in recognizing opportunities within the evolving landscape of technology.

Challenges:

While promising, the abstract lacks specifics about the methodologies employed or the scope of the technology sector covered. A more detailed explanation of the research design and the specific impact on technology entrepreneurs' opportunity recognition would enhance the paper's depth.

[7] Entrepreneurship through the platform strategy in the digital era: Insights and research opportunities

Authors: Ying-Jiun Hsieh, Yenchun Wu

Published in: Computers in Human Behavior, 2019/06/01

Merits:

The study offers valuable perspectives on how entrepreneurs navigate and capitalize on digital platforms. The paper contributes to understanding the dynamics of entrepreneurship in the evolving digital landscape, identifying research opportunities for further exploration.

Challenges:

While commendable, the abstract does not delve into specific methodologies employed or the particular focus within the digital era. A more detailed overview of the insights and potential research avenues explored would enhance the paper's applicability.

[8] Entrepreneurship in Digital Platforms: A Network Centric View

Authors: Arati Srinivasan, N. Venkatraman

Published in: Strategic Entrepreneurship Journal, 2017/09/09, Volume 12

Merits:

The study offers a nuanced view of how entrepreneurs engage in digital ecosystems. The paper provides valuable insights into the intricate dynamics of entrepreneurship in the context of digital platforms, emphasizing the role of networks.

Challenges:

The abstract lacks specific details about the methodologies employed or the focus within digital platforms. A more detailed overview of the network-centric view and its implications for entrepreneurship would enhance the paper's practical relevance.

[9] The Research Review of Entrepreneur Social Network

Author: Yonghai Yu

Published in: 2010 International Conference on Networking and Digital Society, Wenzhou

Merits:

The study offers a comprehensive overview of the existing body of research in the domain of entrepreneur social networks. The paper provides valuable insights into the evolution and

current state of understanding in this field.

Challenges:

The paper lacks specific details about the depth and scope of the research review presented. A more comprehensive outline of key themes, trends, or gaps identified in entrepreneur social network research would enhance the paper's practical relevance.

[10] Pitching as a Communication Technology and Pitch as a Tool for Investor Relations in the Digital Environment

Authors: L. V. Balakhonskaya, V. V. Balakhonsky

Published in: 2021 Communication Strategies in Digital Society Seminar (ComSDS), St. Petersburg, Russia

Merits:

This paper explores the role of pitching as a communication technology and its application in investor relations within the digital environment. The study, presented at the Communication Strategies in Digital Society Seminar, sheds light on the evolving dynamics of communication strategies, especially in the context of pitching. The paper contributes to understanding how digital platforms shape and influence investor relations.

Challenges:

While valuable, the paper may benefit from a more detailed examination of specific case studies or examples illustrating the application of pitching in the digital context. Providing practical insights into the challenges and opportunities faced by individuals or businesses using pitching for investor relations would enhance the paper's applicability.

CHAPTER-3
RESEARCH GAPS OF EXISTING METHODS

Entrepreneurs, who drive new ideas and economic growth, face tough challenges like not having enough money and finding it hard to work with others in their industry. While the Entrepreneurs Interactive Club aims to address crucial challenges faced by entrepreneurs, there are still significant research gaps that need attention. Firstly, understanding the effectiveness of the club in providing accessible funding avenues is essential. Research should delve into the types of funding mechanisms offered, their success rates, and the impact on entrepreneurs' ability to overcome financial barriers. Additionally, there is a need to explore the club's role in facilitating collaborations within industries. Research should investigate the nature and extent of partnerships formed within the club, identifying barriers to collaboration and proposing strategies to enhance industry-wide cooperation.

The connectivity aspect also requires examination, with research focusing on how the club promotes networking among entrepreneurs. This includes assessing the effectiveness of interactive features, the strength of peer-to-peer connections, and the overall impact on overcoming isolation within the entrepreneurial community. By addressing these research gaps, we can better understand the club's effectiveness in supporting entrepreneurs and catalyzing positive changes in their journey towards innovation and economic progress. Research should provide a detailed analysis of the various funding mechanisms offered by the Entrepreneurs Interactive Club. This includes traditional financing, venture capital, crowdfunding, and any unique funding models introduced by the club.

CHAPTER-4
PROPOSED METHODOLOGY

The website “Online Interactive Entrepreneur club”, where innovation meets collaboration! Our visionary approach combines cutting-edge machine learning capabilities with a steadfast commitment to user security, creating an unparalleled experience for the Entrepreneur's Interactive Club.

4.1 Our Methodology:

We present a comprehensive methodology designed to elevate your collaborativeexperience. At the core of our strategy is the integration of machine learning, providing intelligent collaboration recommendations tailored to your unique needs. Simultaneously, weprioritize user security through robust authentication measures, ensuring a safe and trustworthy environment for all members.

Step-by-Step Plan:

Our meticulously crafted step-by-step plan guarantees a secure, user-friendly journey. We understand the importance of continuous improvement, and our plan incorporates iterative feedback integration to refine and enhance the user experience over time. Your feedback matters, and it shapes the evolution of Club.

Commitment to Clarity:

Our Club is committed to promoting transparency in app architecture. We believe that a clear and well-defined structure is essential for a seamless user experience. Our commitment extends beyond just functionality – we aim to empower you with a deep understanding of the app's architecture, ensuring you can make the most out of its features.

Fostering a Dynamic Community:

Beyond technology, Club is dedicated to fostering a dynamic and collaborative community within the Entrepreneur's Interactive Club.

4.1.1 Advantages of the Proposed System

Assisting Investors for effective funding.

Integrating machine-learning models enhances user experience, supports more effective funding decisions, and contributes to the overall success and competitiveness of your platform

Empowerment of Entrepreneurs.

The system empowers entrepreneurs by offering a supportive community where they can actively engage, seek advice, and collaborate. This empowerment is particularly beneficial for both experienced entrepreneurs and those in the early stages of their entrepreneurial journey.

User-Friendly Interface:

A step-by-step plan ensures a user-friendly experience, making the platform accessible to users of varying technical backgrounds. This simplicity encourages widespread adoption and active engagement.

4.2 Architecture:

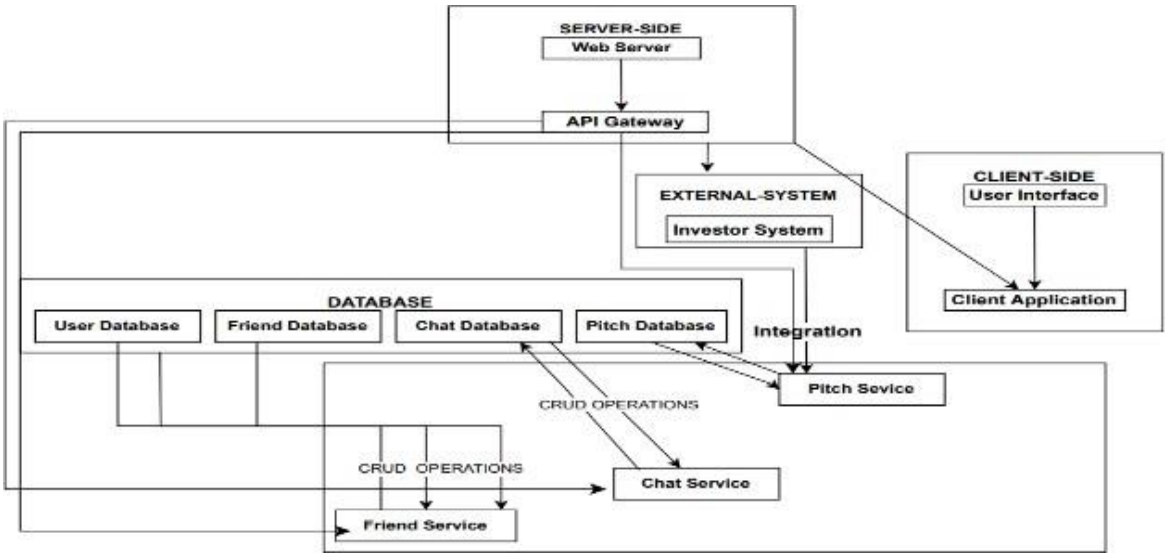

Fig 4.1 Architecture

1) In this multi-tier web application architecture, the server-side components play a pivotal role in managing client requests and interacting with various data sources. The web server, serving as the primary logic handler, is responsible for receiving and processing client requests. It executes application-specific operations, often involving complex business logic, and communicates with databases to retrieve or store data. The server-side architecture is designed for flexibility, allowing seamless integration with databases and external systems.
2) The API Gateway serves as a centralized entry point on the server-side, streamlining communication between client-side applications and the backend services. Functioning as a traffic director, it intelligently routes requests to the appropriate services, enhancing the overall efficiency and maintainability of the system. By acting as a gatekeeper, the API Gateway also provides an additional layer of security and abstraction, shielding the client-side applications from the intricacies of the backend services.
3) On the client-side, the user interface (UI) is responsible for rendering the application's visual elements and facilitating user interaction. This component plays a crucial role in creating an intuitive and engaging user experience. It communicates with the server-side components, sending user input and receiving updates, ensuring a seamless flow of information between the user and the application.
4) External systems, such as the Investor System, contribute to the system's functionalities by interacting with the web application. In the context of investment-related features, the Investor System collaborates with the web server to execute specific operations, providing a seamless experience for users engaging in investment-related activities.
5) The architecture employs a variety of databases, including User, Friend, Chat, and Pitch databases. These databases store diverse sets of data, ranging from user-related information to application-specific data such as friendship connections, chat histories, and pitch details. The modular database structure facilitates efficient data management, ensuring scalability and ease of maintenance.
6) The integration layer of the architecture represents the connections between different components, managing the flow of data between databases, services, and external systems. This integration layer is crucial for maintaining consistency and coherence within the system, ensuring that data is accurately shared and updated across various modules.

4.3 Our Software Development Life Cycle – SDLC:

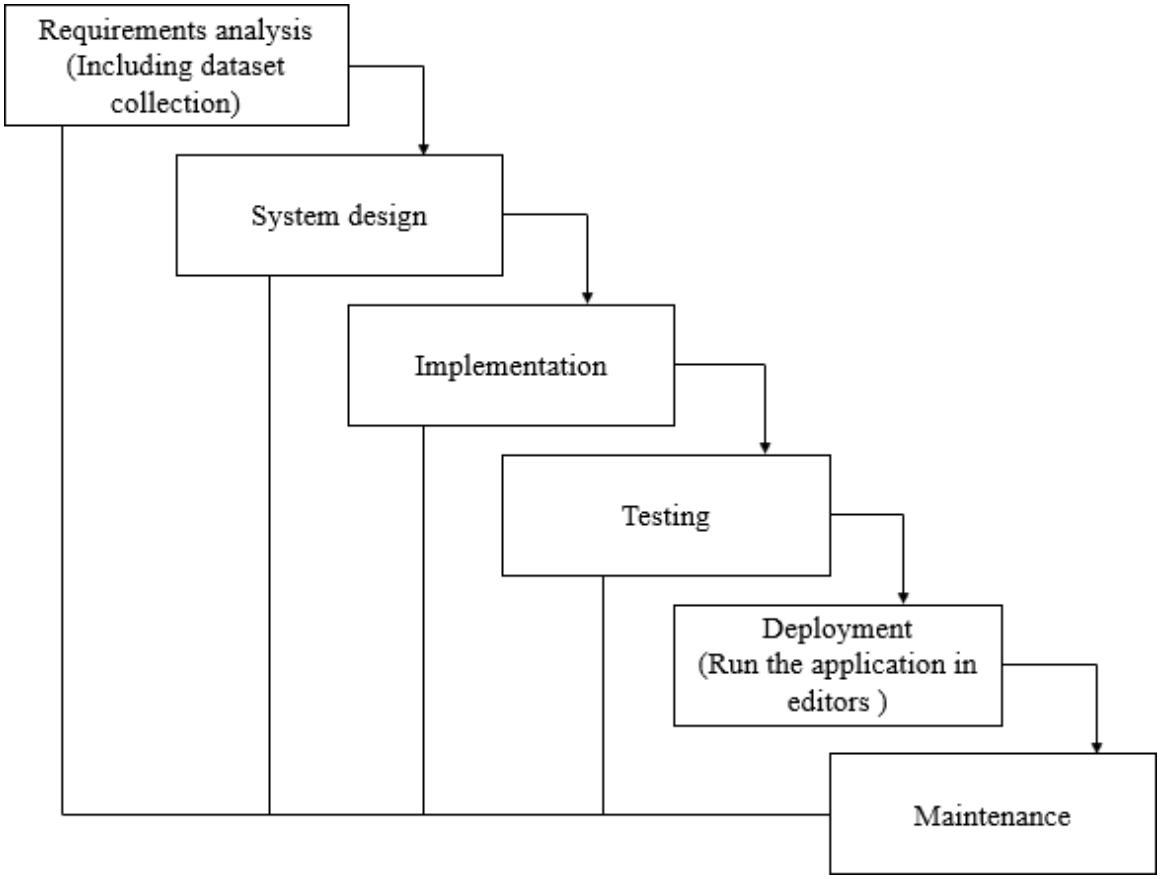

Fig 4.2 SDLC

1. Project Initiation:

- Detailed Market Analysis: Conducted an in-depth market analysis to identify gaps and opportunities in the entrepreneurial ecosystem. Explored the funding landscape, collaboration challenges, and connectivity issues entrepreneurs face in the industry.
- Stakeholder Identification: Identified key stakeholders, including entrepreneurs, investors, and industry experts, whose needs and perspectives shaped the vision for the Entrepreneurs Interactive Club.

  Feasibility Study: Conducted a feasibility study to assess the viability of the platform, considering technical, financial, and operational aspects

2. Requirement Gathering and Analysis:

- User Persona Development: Created detailed user personas representing entrepreneurs

with diverse needs and challenges. This included profiling their funding requirements, collaboration preferences, and networking expectations.

- Workshops and Surveys: Organized workshops and conducted surveys to gather comprehensive insights from the target user base. Explored pain points and aspirations of entrepreneurs in the funding and collaboration domains.
- Competitor Analysis: Analyzed existing platforms to understand their strengths and weaknesses, informing the development of unique features that set the Entrepreneurs Interactive Club apart.

3. System Design:

- Database Schema Design: Established a robust database schema, incorporating entities such as user profiles, funding requests, collaboration forums, and networking interactions. Ensured scalability and efficiency in data storage and retrieval.
- Architecture Planning: Outlined the overall system architecture, emphasizing modularity and scalability to accommodate future enhancements and increasing user interactions.

4. Implementation:

- Front-End Development: Utilized modern web development technologies to implement a visually appealing and responsive front-end. Focused on creating an intuitive user experience through seamless navigation and interactive design elements.
- Back-End Development: Implemented secure authentication mechanisms and executed back-end functionalities for funding request processing, collaboration forums, and networking features. Leveraged robust frameworks to ensure data integrity and platform stability.

5. Integration and Testing:

- Unit and Integration Testing: Conducted comprehensive unit testing for individual components and integration testing to ensure smooth communication between different modules. Emphasized the identification and resolution of potential bottlenecks or vulnerabilities.

6. Deployment of System:

- Gradual Deployment: Adopted a phased deployment approach to minimize disruptions. Released key features incrementally, ensuring that each release was thoroughly tested and met the user expectations.

7. Maintenance and Continuous Improvement:

- Monitoring and Issue Resolution: Established continuous monitoring mechanisms to identify and address any system issues promptly. Implemented a responsive support system to assist users and resolve queries efficiently.

CHAPTER-5

OBJECTIVES

Entrepreneurs face a range of challenges, including limited funding opportunities and difficulties collaborating within their industry. Securing enough funds for business endeavors often proves to be a significant hurdle, hindering their ability to turn visionary ideas into reality. Building partnerships within the industry can be challenging, limiting growth opportunities and potential collaborations. Furthermore, limited connectivity with peers in the domain restricts networking opportunities, shared insights, and mutual support, presenting obstacles in navigating the entrepreneurial landscape efficiently. In response to these challenges, the Entrepreneurs Interactive Club emerges as a multifaceted solution hub, providing accessible funding avenues, fostering collaboration and enhancing connectivity for entrepreneurs to thrive in the dynamic entrepreneurial ecosystem.

- In this project, our primary objectives revolve around establishing the Online Interactive Entrepreneur Club as a comprehensive support system. We aim to address the challenges of connection and funding for entrepreneurs.
- Through the integration of cutting-edge machine learning models, we strive to offer intelligent recommendations that support investors in discovering effective funding opportunities.
- Our commitment extends to implementing robust security measures, ensuring a safe environment for users to connect globally through a user-friendly web-based platform.
- Ultimately, our objectives center on empowering entrepreneurs and investors, fostering a dynamic community within the entrepreneurial ecosystem.
- The major contributions include creating a unified space for seamless user experiences, integrating a funding-assisting model based on machine learning, and simplifying networking challenges for entrepreneurs.

CHAPTER-6
SYSTEM DESIGN & IMPLEMENTATION

6.1 Input Design:

In the context of the Entrepreneur Club Information System, input design plays a pivotal role in shaping the way raw data is processed to generate meaningful outputs. The consideration of various input devices, such as PCs, MICR, OMR, etc., is fundamental in ensuring the quality of system output

The quality of the system output is directly influenced by the quality of system input. Effective input design is characterized by well-crafted input forms and screens that exhibit the following properties:

- Design input forms and screens that effectively serve the specific purpose of storing, recording, and retrieving information related to the Entrepreneur Club
- Emphasize proper completion of input fields to ensure accuracy in the data enteredinto the system. This is critical for reliable output generation.
- Create input interfaces that are easy to fill and straightforward, reducing the likelihoodof errors during data entry.
- Design input forms that capture the user's attention, maintaining consistency and simplicity throughout the interface. This helps in enhancing the user experience.
- Determine the specific inputs needed for the Entrepreneur Club Information System, including user profiles, event details, forum discussions, and other relevant data.
- Consider how end users respond to different elements of forms and screens. Use this knowledge to design interfaces that align with user expectations and preferences.

6.1.1 Objectives for Input Design:

The objectives of input design are.

- Developing Methods for Data Input and Entry.
- Diminishing the Volume Received
- Developing Data Capture Techniques and Source Document Designs

6.2 Output Design:

Designing output is a crucial aspect of any system, holding paramount importance. In the process of output design, developers define the required types of outputs, taking into account essential output controls, and creating prototype layouts for reports.

6.2.1 Objectives of Output Design:

The objectives of input design are:

- Develop an output design that fulfils its intended purpose and prevents the generationof unnecessary output.
- Create an output design that aligns with the requirements of end users, meeting theirspecific needs.
- Ensure the delivery of an appropriate quantity of output, tailored to the relevantinformation without excess.
- Structure the output in an suitable format and direct it to the correct individual oraudience.
- Make the output promptly available to support timely and informed decision-making.

6.3 Modules:

User Registration and Profiles: Allow entrepreneurs to register and create profiles with relevant information, showcasing their expertise, interests, and achievements.

Secure User Authentication: Implement a robust user authentication system to secure user

accounts and personal information.

Investor Page: Design a dedicated investor page with information on investment opportunities, financial details, success stories, and a mechanism for potential investors to express interest.

Investment Opportunities Board: Create a dedicated board or section where entrepreneurs can showcase their startups and funding requirements, and investors can explore potential investment opportunities.

User Dashboard: Provide users with a personalized dashboard where they can manage their profile, view event registrations, participate in forums, and access personalized recommendations.

Administrative Panel: Create an administrative module to manage user and investors data, monitor discussions, oversee events, and administer the overall functionality of the website.

Content Dashboard: Provide users with a centralized dashboard for content creation, where they can manage and track their articles, blogs, or any other contributed content.

6.4 Implementation

6.4.1 Use Case Diagram:

- The primary purpose of a use case diagram is to provide a visual representation of the functionalities that the Entrepreneur Club system offers. It achieves this by highlighting key elements such as actors, use cases, and the relationships between them. Actors in the diagram represent external entities interacting with the system, while use cases depict specific functionalities or services provided by the system.
- The fundamental goal of the use case diagram is to articulate the system functions associated with each actor, outlining how they interact with the Entrepreneur Club platform. For example, members might engage in activities like updating their profiles or participating in club events, while administrators could manage memberships and oversee the overall functioning of the platform.

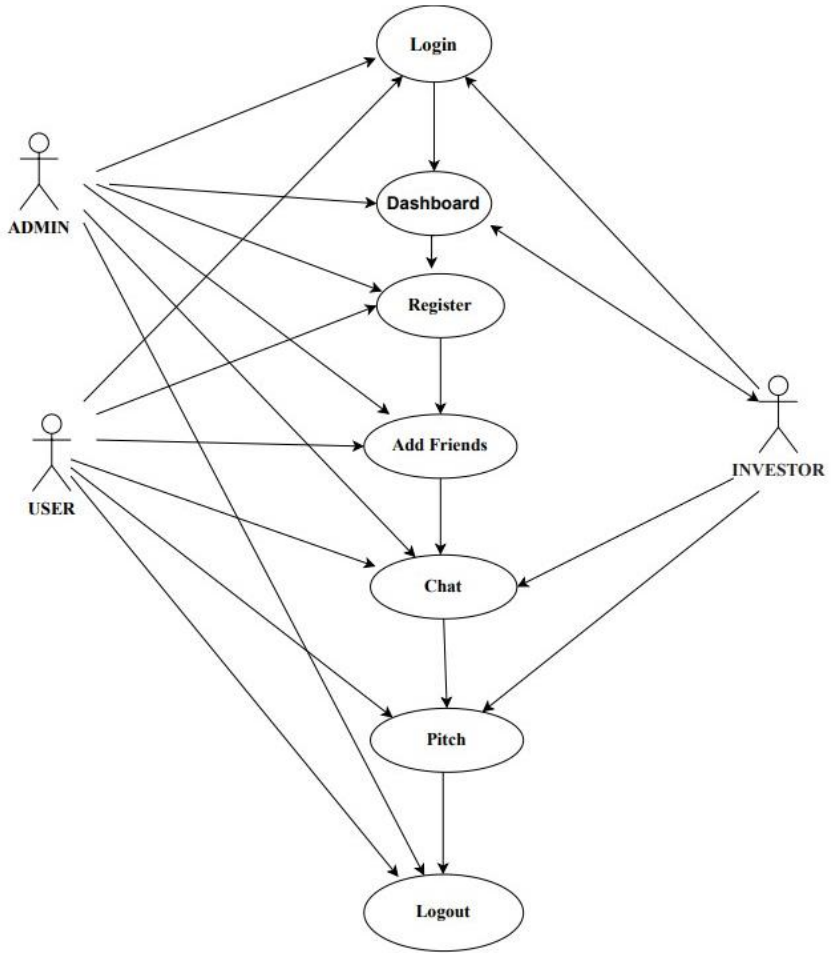

Fig 6.1 Use Case Diagram

6.4.1 Class Diagram

- At the core of this diagram are prominent classes representing key entities such as 'Entrepreneur,' 'Funding Opportunity,' 'Collaboration,' and 'Networking.' Each class is equipped with attributes that encapsulate crucial information, like entrepreneur profiles, funding details, collaboration parameters, and networking preferences. The 'Users' class serves as a central entity, representing individuals engaged with the club, encompassing both entrepreneurs and investors. Attributes such as 'UserID,' 'Username,' distinguish the characteristics of each user, acknowledging their role within the interactive ecosystem.
- The 'Investors' class reflects the unique attributes and functionalities associated with

investors within the club. Attributes such as prepare pitch, submit pitch, pitch content encapsulate pertinent details regarding investor profiles, preferences, and engagement with entrepreneurial ventures.

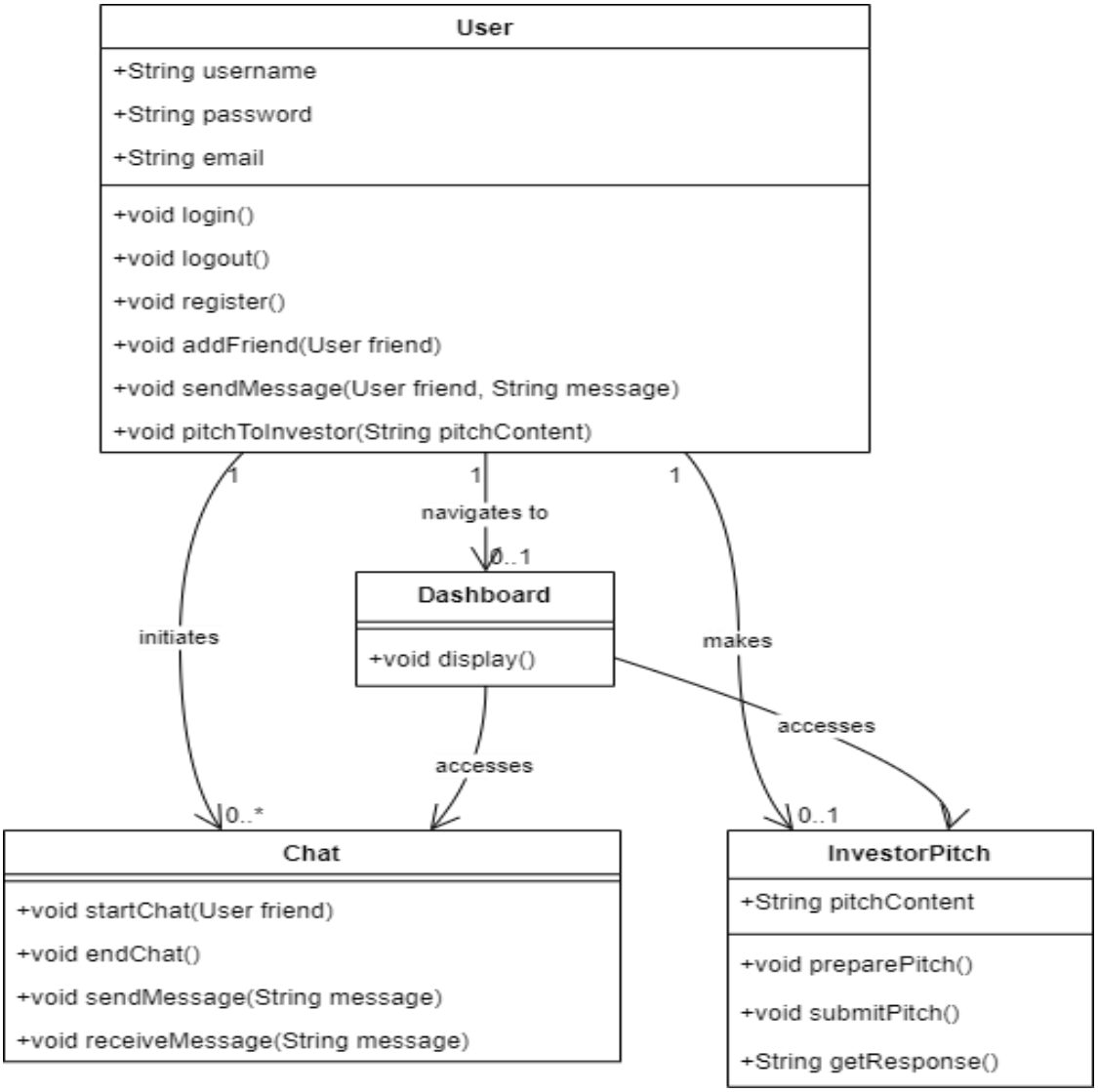

Fig 6.2 Class Diagram

6.4.2 Activity Diagram:

The activity diagram for the online interactive club would begin with an initial node, representing the start of the workflow. From there, it would branch into various activities that encapsulate the core functionalities of the club. For instance, activities such as 'User Registration,' 'Profile Editing,' 'Funding Application,' 'Collaboration Initiation,' and 'Chat Interaction' could be visually depicted as separate actions within the diagram. In essence, the activity diagram for the online interactive club provides a visual roadmap of how users navigate through the various features and functionalities offered by the platform.

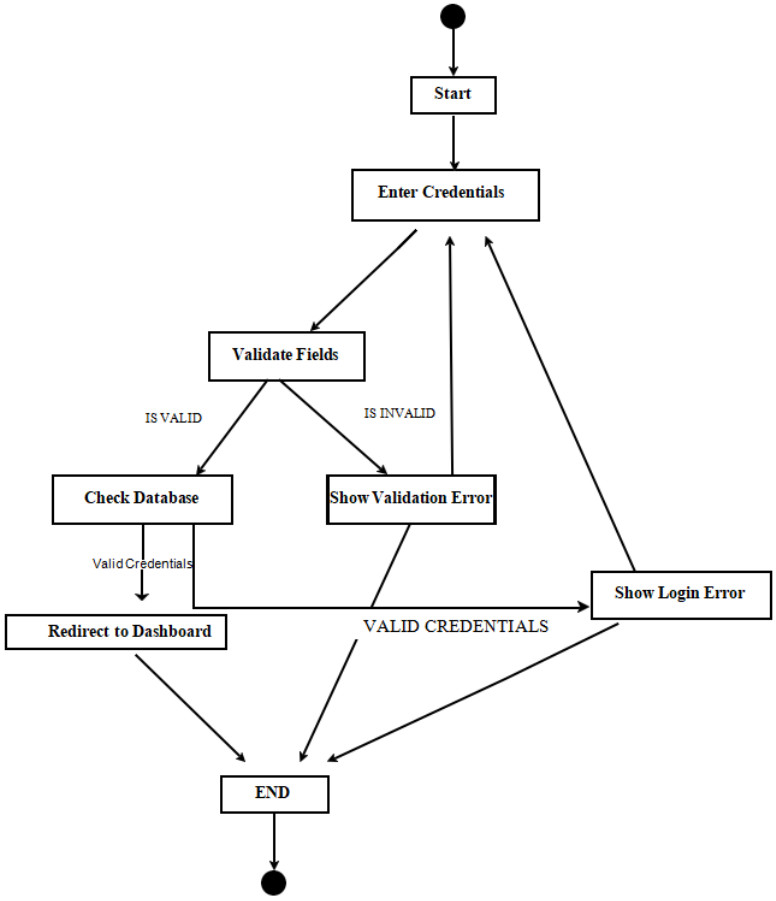

Fig 6.3 Activity diagram for the Login page

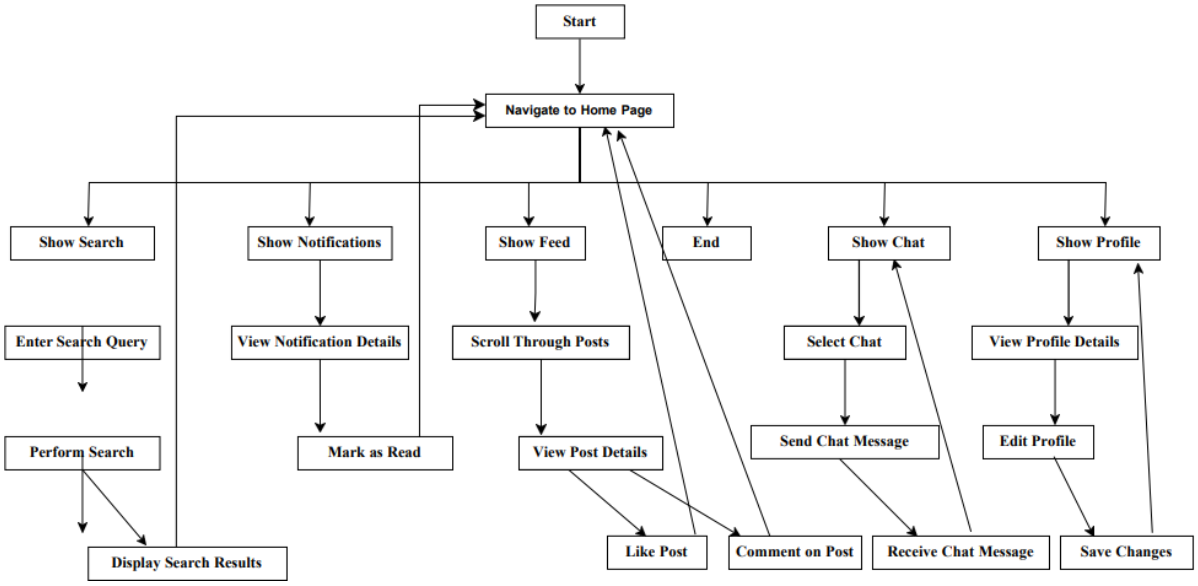

Fig 6.4 Activity diagram for the Home Page

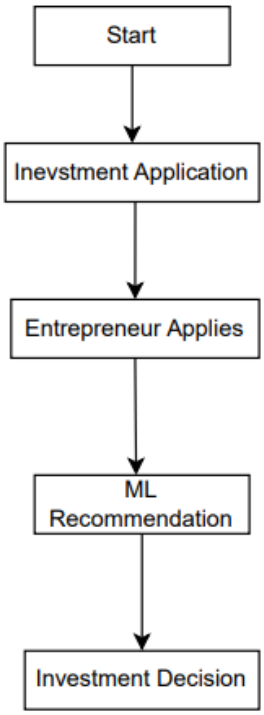

Fig 6.5 Activity diagram for the Pitch Page

6.4.3 Component Diagram:

The component diagram for an online entrepreneur club provides a high-level view of the structural organization of the system, showcasing the key components and their interactions. In the context of the online entrepreneur club, various components contribute to the overall functionality of the platform. The Application Server acts as the central processing unit, handling the business logic and core functionalities of the entrepreneur club. It manages user requests, processes collaboration initiatives, oversees funding applications, and coordinates communication through the chat functionality.

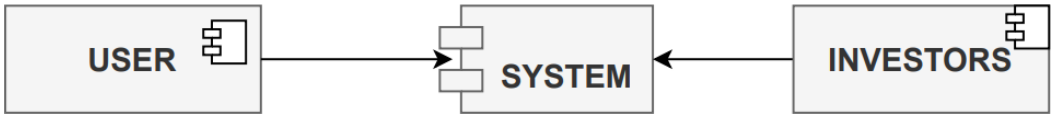

Fig 6.6 Component Diagram

6.4.4 ER Diagram

This ER diagram reflects the relationships and associations among the main entities in the online entrepreneur club system. The notation used includes primary keys (PK) and relationships, demonstrating how users, investors, funding opportunities, collaborations, and chats are interconnected within the platform. These additional entities and relationships enhance the representation of the online entrepreneur club, covering a broader spectrum of functionalities. It is crucial to tailor the ER diagram further based on the specific requirements and features of the club, ensuring a comprehensive and accurate reflection of the data relationships within the system.

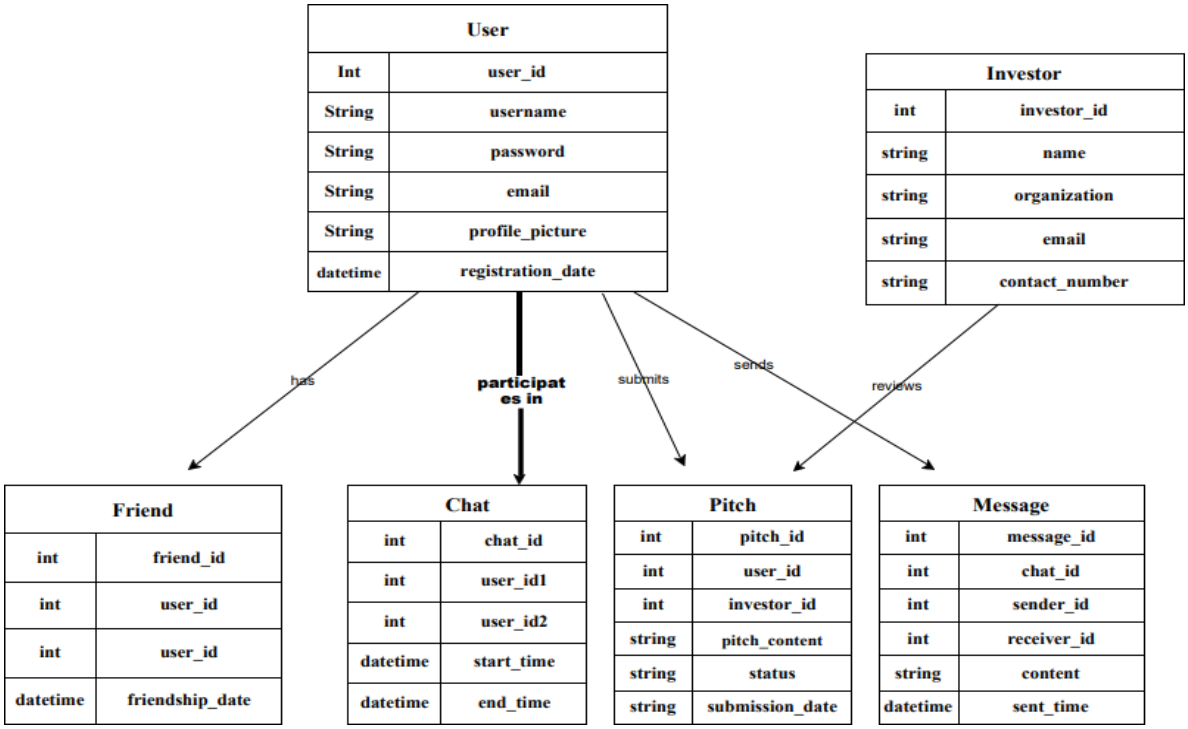

Fig 6.7 ER Diagram

6.4.5 Sequence Diagram

- The user enters login credentials, triggering a validation process on the server side. The server, after validating the credentials, responds with the outcome of the login request.
- The user's interaction extends to the registration process, where details are sent to the server for storage. Results of the registration are communicated back to the user, shaping a seamless registration experience.
- Friends are added through the application, and corresponding friend requests are sent, stored, and managed by the server. Messaging functionalities involve the user sending messages to friends, with outcomes and storage results relayed between the client app and the server.

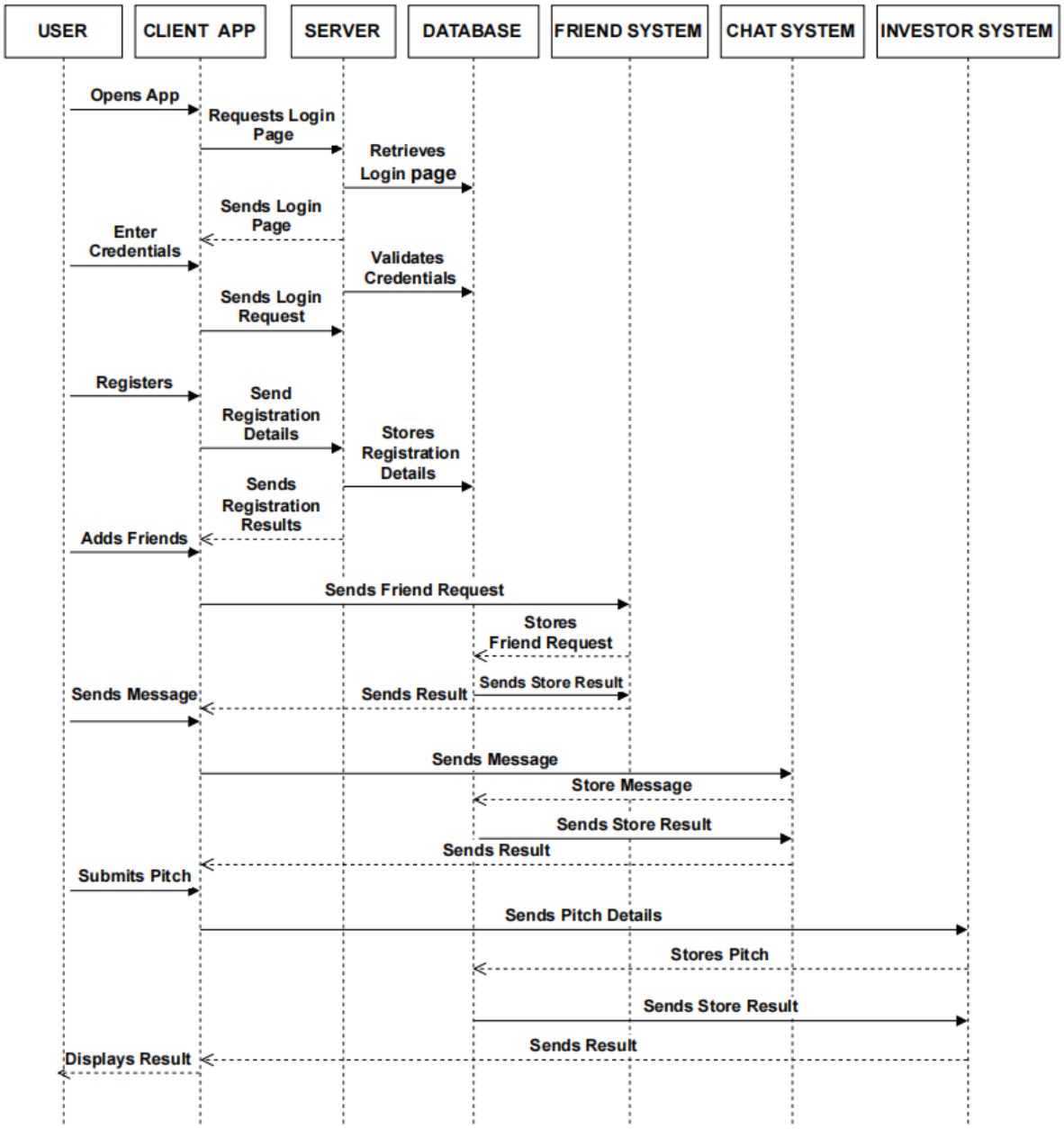

Fig 6.8 Sequence Diagram

6.4.6 Machine Learning Models

- K-clustering is an unsupervised machine learning technique that groups similar domains into clusters. It operates without labeled data, identifying patterns to categorize domains with shared characteristics. This unsupervised approach helps organize diverse domains into meaningful clusters for subsequent analysis.

- Random Forest Regressor is a supervised model tasked with ranking users within their assigned domains. Considering factors like revenue, profit, growth, and business status, it predicts the likelihood of investor funding. Using a collection of decision trees, this model captures complex data relationships, providing an effective tool for assessing andprioritizing users based on their investment potential.

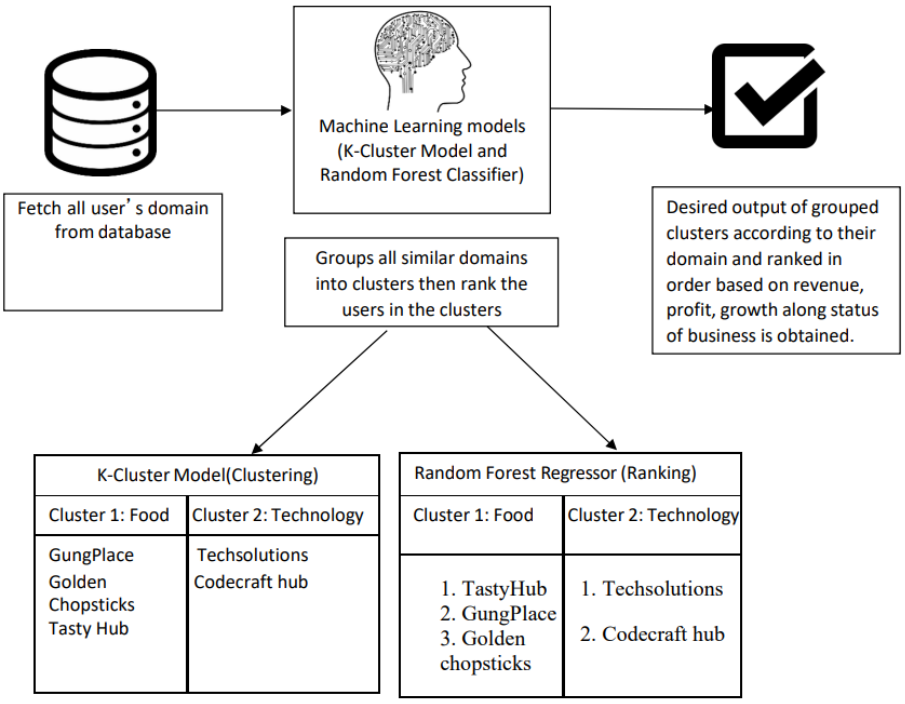

Fig 6.9 Machine Learning Models

6.5 SYSTEM REQUIREMENTS SPECIFICATIONS

6.5.1 General Description:

The Entrepreneurs Interactive Platform project is dedicated to creating an innovative system that facilitates efficient connections and collaborations among entrepreneurs. Leveraging advanced machine learning models, the platform aims to streamline networking challenges, offer funding opportunities, and provide a rich repository of learning resources. The user-friendly design ensures accessibility for entrepreneurs globally, fostering a dynamic environment for meaningful connections and growth within the entrepreneurial ecosystem.

6.5.2 Product Perspective

The platform will be designed as a standalone application, compatible with personal computers and mobile devices. Leveraging open-source libraries ensures seamless maintenance and updates. Users can effortlessly share images, messages, and videos, fostering dynamic interactions within the entrepreneurial community. The system emphasizes user friendliness, catering to entrepreneurs, investors, and industry enthusiasts. Advanced features include collaborative tools, networking capabilities, and a curated learning space. The platform aims to empower users, facilitating meaningful connections, knowledge exchange, and collaborative opportunities within the vibrant entrepreneurial community.

6.5.3 Hardware requirements

- OS: Windows 7 or above, MacOS 10.13(High Sierra), Ubuntu 18.04(LTS).
- RAM: minimum: 4GB, recommended: 8GB or above.
- Processor: minimum: Intel i5 8th Gen or AMD Ryzen 5 3000 series, recommended: Intel i5 10th Gen or AMD Ryzen 5 4000 series.
- Storage: minimum 4GB of free space

6.5.4 Software requirements:

6.5.4.1 Functional Requirements &Non-functional Requirements

Functional Requirements

- The website shall have a home page that shall feature a homepage showcasing the core purpose and functionalities of the platform.
- Users shall be able to upload and share images, messages, and videos on the platform, fostering dynamic interactions within the entrepreneurial community.
- The website will have a dedicated section on the and shall provide essential information related to entrepreneurship, funding opportunities, and industry insights.
- The platform shall include a dedicated section where entrepreneurs can pitch their endeavors to angel investors and venture capitalists.
- Entrepreneurs shall have the capability to fill out a structured form with pertinent details about their venture during the pitching process.

Non Functional Requirements

- The platform shall include a centralized link connector on the homepage, allowing users to seamlessly input various data types, such as images, messages, and videos related to their entrepreneurial activities
- The website shall include an 'About' page providing detailed information about the vision and mission of the Entrepreneurs Interactive Club.

User Requirements

- The web interface should feature a user-friendly platform, enabling entrepreneurs to effortlessly post content, including images, messages, and videos. The website should be responsive, ensuring a consistent and user-friendly experience across various devices.
- Users should have the ability to interact with posted content by liking, sharing, and messaging other entrepreneurs.
- Entrepreneurs should be able to create and edit their profiles, providing details about their industry, expertise, and interests.
- The platform should include a dedicated section for funding opportunities, where entrepreneurs can pitch their ventures by filling out a specified form with relevant details

CHAPTER-7

TIMELINE FOR EXECUTION OF PROJECT

(GANTT CHART)

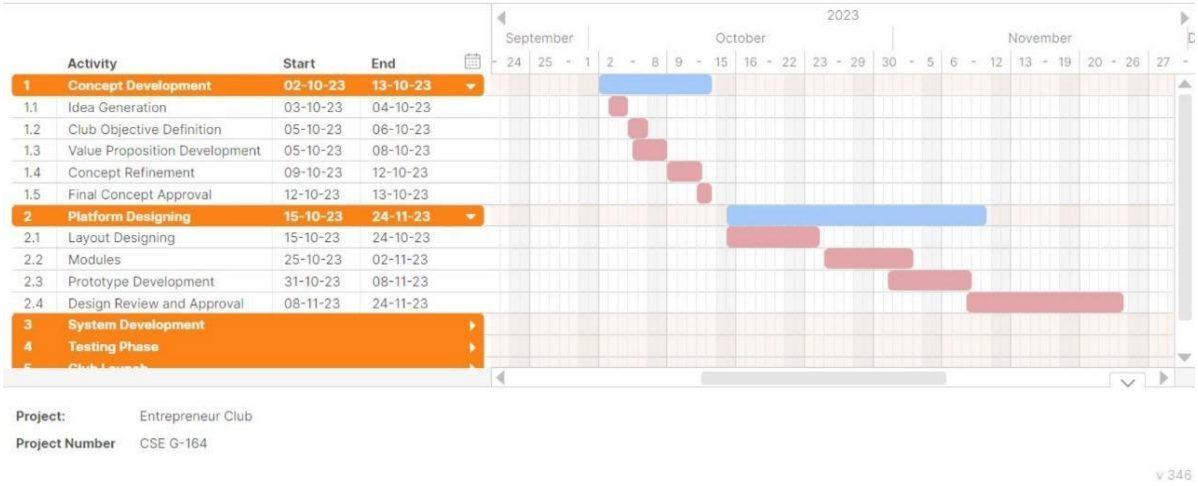

Fig 7.1 Gantt Chart

S.No	Review(Offline)	Dates
1	Review-0	09-Oct-2023 to 13-Oct-2023
2	Review-1	09-Nov-2023 to 10-Nov-2023
3	Review-2	27-Nov-2023 to 30-Nov-2023
4	Review-3	26-Dec-2023 to 30-Dec-2023
5	Final Viva-Voce	08-Jan-2024 to 12-Jan-2023

Fig 7.2 Timeline

CHAPTER-8
OUTCOMES

This entrepreneurial platform offers valuable outcomes for its members:

- Expanded Professional Network: Entrepreneurs can seamlessly connect with like-minded individuals, potential collaborators, or investors, thereby expanding their professional network and fostering mutually beneficial relationships.
- Collaboration and Partnership Opportunities: Members have the opportunity to discover collaboration prospects, joint ventures, or partnerships within the club, creating a conducive environment for entrepreneurial synergy.
- Continuous Improvement Through Member Feedback: The club undergoes continuous improvement, evolving based on member feedback, ensuring that it remains relevant, dynamic, and consistently valuable to its entrepreneurial community.
- Dedicated Investment and Funding Platform: The platform serves as a dedicated space where members can explore investment opportunities, pitch ideas, and connect with potential investors or funding sources, fostering an ecosystem for financial growth.
- Informed Decision-Making for Investors: Investors benefit from recommendations based on projected revenue, enabling them to make informed decisions. This feature enhances the platform's value by providing data-driven insights to investors, contributing to more strategic investment choices.
- Informed Decision-Making for Investors: Investors benefit from recommendations based on projected revenue, enabling them to make informed decisions. This feature enhances the platform's value by providing data-driven insights to investors, contributing to more strategic investment choices.
- Investment and funding opportunities by creating a dedicated platform where members can explore investment opportunities, pitch ideas, and connect with potential investors or funding sources.

CHAPTER-9
RESULTS AND DISCUSSIONS

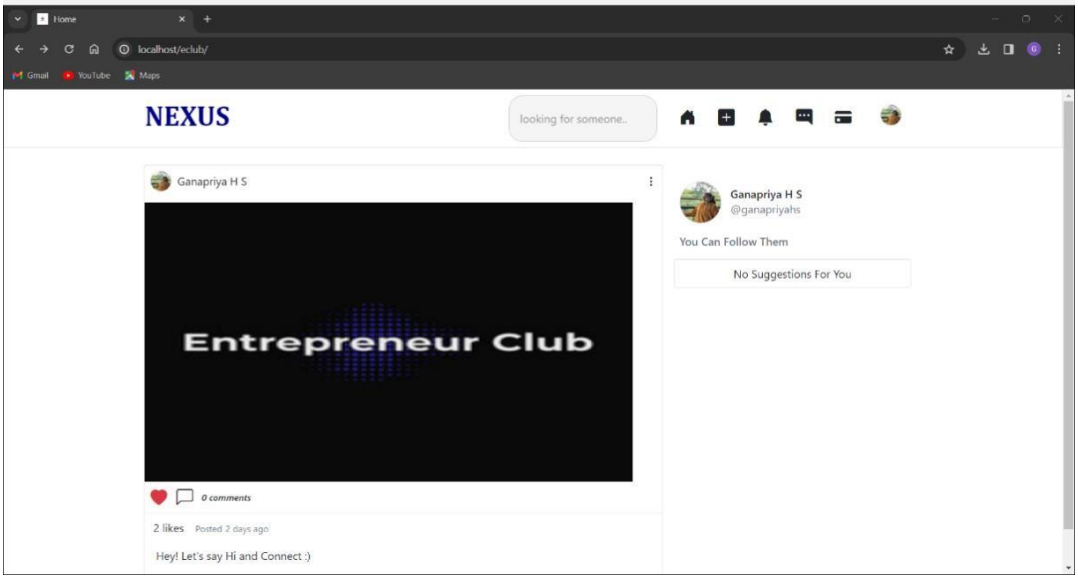

Fig 9.1 Home Page

- Our user-friendly platform, where you can effortlessly edit your profile, connect with fellow entrepreneurs, and stay updated with real-time notifications. Engage with your community through likes and comments, and build a network that accelerates your entrepreneurial journey. With features like chat and dynamic feeds, our platform is tailored to simplify and enhance user's experience.
- Users can create detailed business profiles that showcase their venture's vision, mission, and key achievements. Include sections for financial projections, business plans, and other crucial details that investors typically seek.
- By clicking the investment icon on the home page, the investor page opens where the users can fill the form to seek investments from the investors for their business

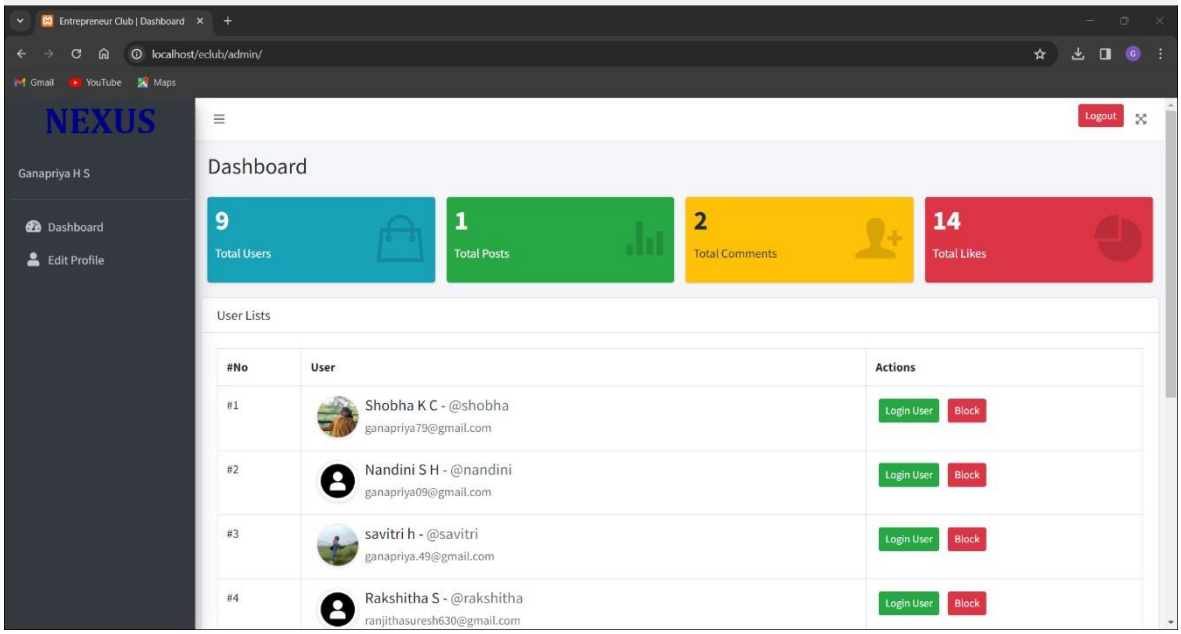

Fig 9.2 Admin Page

- At the core of the Admin Dashboard is an intuitive user management system. Admins hold the reins to effortlessly create, modify, and monitor user profiles. Implementing access controls ensures a secure environment while tracking user engagement metrics allows for a deeper understanding of user behavior.
- Maintaining a positive and constructive environment is paramount. The Admin Dashboard facilitates content moderation with tools to review and approve/disapprove funding requests, monitor collaboration forums, and ensure user-generated content aligns with the community's guidelines.
- Informed decision-making is empowered by robust analytics and reporting tools. Admins can delve into Admins collaborate closely with the development team to enhance user experience continually. Identifying pain points, implementing user-centric features, and facilitating communication channels for user support contribute to the platform's seamless operation.

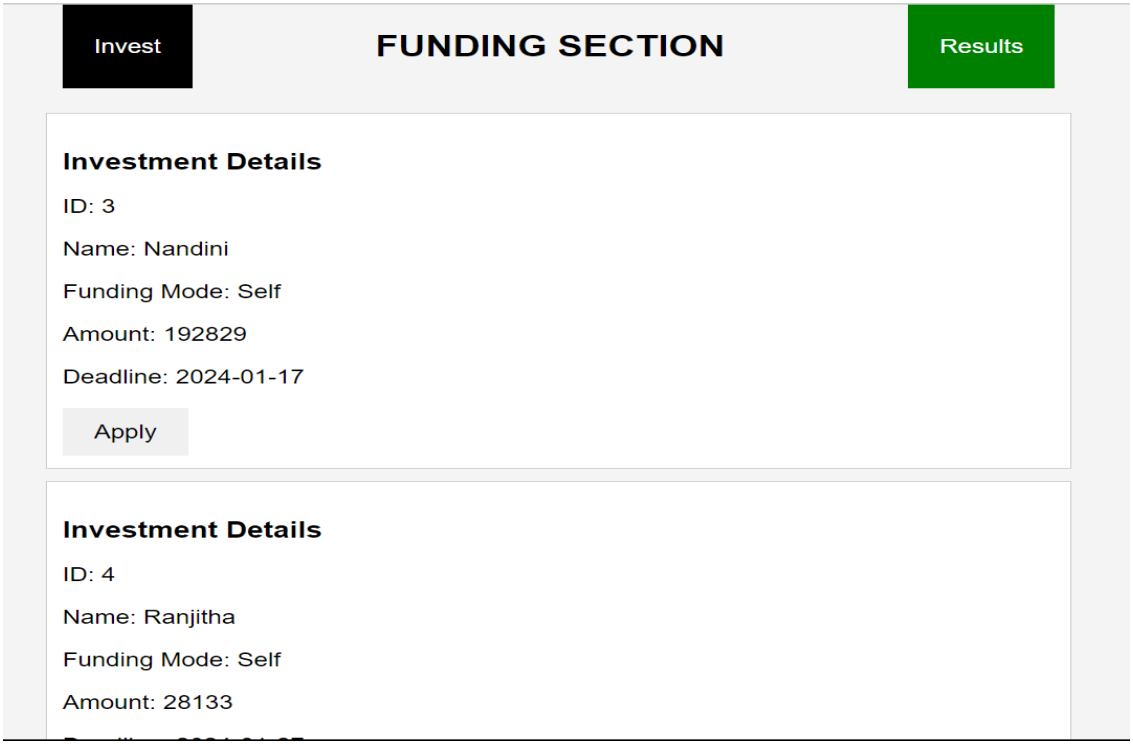

Fig 9.3 Funding Section

- **Results Button:** Embark on the journey of realization by clicking the Results button. This feature takes you to a secure login form, where investors and entrepreneurs can enter their credentials to gain exclusive access to investment results. The Results section serves as a confidential arena, unveiling the outcomes of investment processes while ensuring the utmost privacy and data security.
- **Apply Button:** For entrepreneurs ready to seize the opportunity, the Apply button is your gateway to progress. Clicking this button allows entrepreneurs to submit their applications for a specific investment opportunity. Craft your proposals, articulate your vision, and submit your application directly through our user-friendly interface. The application details are securely stored in our database, ensuring a streamlined and organized process for both entrepreneurs and investors.
- **Database Storage:** Every click, every application, and every investment announcement is meticulously recorded and stored in our robust database.

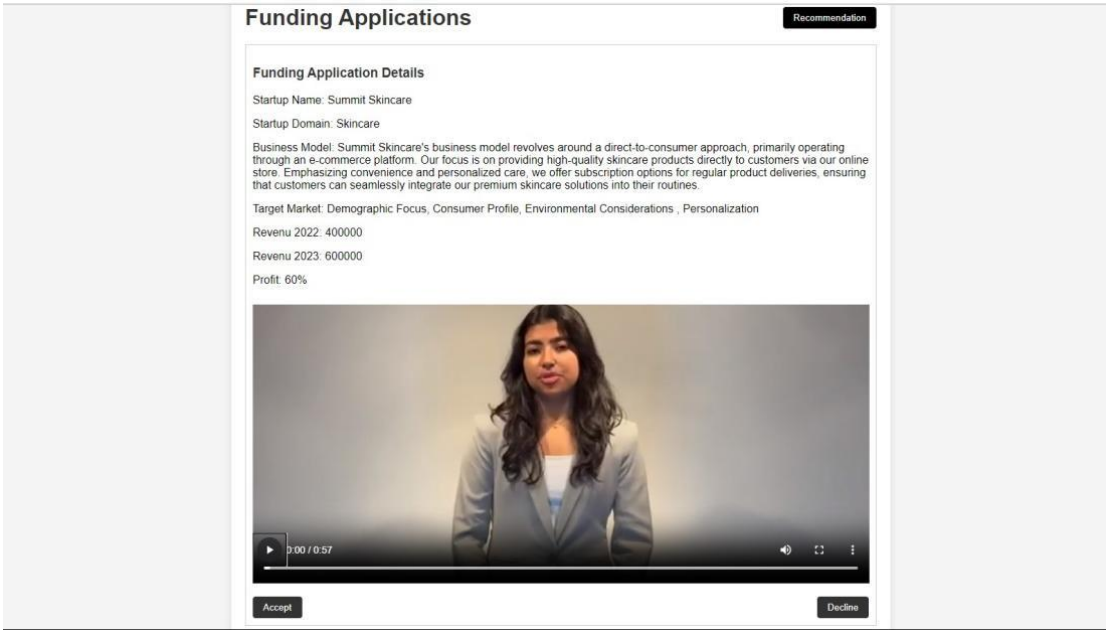

Fig 9.4 Investor View Page

- The "Investor View" page, a pivotal component in our digital ecosystem, unfolds a seamless and dynamic experience for investors seeking to explore and engage with innovative startups. Upon accessing the page, a PHP file is executed on the server, initiating a process that dynamically fetches detailed insights into various startups.
- The core of this interaction is the fetchData function, triggering an asynchronous request that seamlessly retrieves startup data, including names, images, industry types, revenues, profits, growth rates, and engaging pitching videos.
- The Investor View page is now a curated space populated with detailed information about various startups, where each entity's details, including business model images, industry types, financial metrics, and pitching videos, are prominently displayed.
- This interactive landscape invites investors to not only observe but actively participate in the exploration of startup narratives. Delving into specifics, such as business models, financials, and industry nuances, investors are empowered to make informed and strategic investment decisions.
- The page transcends being a mere repository of information; it is a dynamic gateway, a testament to the intersection of technology, innovation, and investment strategy. In the

realm of the Investor View, technology meets investment acumen, fostering an immersive and engaging experience that underscores the crucial role of information in shaping the future of innovation and investment.

Investment Recommendations by ML

Cluster	ClusterRank	StartupName	StartupDomain	Revenue2022	Revenue2023	Profit	ProjectedRevenue
0	1	B	Food	80000	120000	15	115600
0	2	D	Food	70000	100000	10	105200
1	1	C	Tech	120000	180000	24	169300
1	2	A	Tech	100000	150000	20	147400
1	3	E	Tech	90000	130000	18	138600

Fig 9.5 Recommendation by ML

- The foundation of our investment recommendation system rests on a sophisticated approach, leveraging the combined power of the K-Clustering model and the Random Forest Regressor. The initial step involves employing the K-Clustering model to categorize investments into distinct clusters based on underlying patterns and similarities.
- This clustering process is instrumental in identifying cohorts of investments that share common characteristics and potential trajectories.
- Once the investments are effectively grouped into clusters, the subsequent step entails ranking these clusters in a strategic order. This ranking serves as a critical determinant in forecasting the projected revenue for the year 2024.
- The Random Forest Regressor, a robust machine learning algorithm, is employed to predict and model the potential revenues associated with each cluster. This regression model harnesses the collective strength of multiple decision trees, ensuring a comprehensive and accurate estimation of future revenue trends.
- The culmination of this intricate process is the presentation of results in a clear and

concise tabular format. This table serves as a visual representation of the projected revenues for each cluster in the year 2024, offering investors a comprehensive and easily interpretable overview of the potential outcomes associated with their investment decisions.

CHAPTER-10
CONCLUSION

The establishment of an online interactive entrepreneur club, guided by strategic planning and proactive methodologies, offers a transformative experience for its members. Through fostering a vibrant community, encouraging knowledge sharing, providing invaluable support, and promoting collaborative ventures, the club becomes a dynamic hub where entrepreneurs thrive. As businesses grow, partnerships flourish, and skills are honed, the club not only empowers individual entrepreneurs but also contributes to the larger entrepreneurial ecosystem. By incorporating funding opportunities for entrepreneurs and providing funding assistance for investors, the club plays a pivotal role in facilitating financial support and fostering meaningful connections within the entrepreneurial landscape. Through continuous improvement and innovation, the club remains adaptive and responsive, ensuring its enduring relevance and impact on the entrepreneurial journey.

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APPENDIX-A

PSUEDOCODE

Sign-up page:

```
<link rel="stylesheet" href="custom.css">
<link href="assets/css/style.css" rel="stylesheet">
<div class="login">
      <div class="col-4 bg-white border rounded p-4 shadow-sm">
         <form method="post" action="assets/php/process.php?signup">
         <h2 class="text-center" style="color:#00008B;font-family:cambria;font-size:300%"><b>NEXUS</b></h2></br>
               <h5 class="text-center">Create a Nexus account</h5>
               <p class="text-center">It's quick and easy.</p>
            <div class="d-flex">
               <div class="form-floating mt-1 col-6 ">
                <input type="text" name="firstname" value="<?=showFormData('firstname')?>" class="form-control rounded-
0" placeholder="username/email">
                  <label for="floatingInput">first name</label>
               </div>
               <div class="form-floating mt-1 col-6">
                 <input type="text" name="lastname" value="<?=showFormData('lastname')?>" class="form-control rounded-
0" placeholder="username/email">
                  <label for="floatingInput">last name</label>
               </div>
            </div>
            <?=showError('firstname')?>
            <?=showError('lastname')?>
            <div class="d-flex gap-3 my-3">
               <div class="form-check">
                  <input class="form-check-input" type="radio" name="gender" id="exampleRadios1"
                    value="1" <?=isset($_SESSION['formdata'])?":'checked'?><?=showFormData('gender')==1?'checked':''?>>
                  <label class="form-check-label" for="exampleRadios1">
                     Male
                  </label>
               </div>
               <div class="form-check">
                  <input class="form-check-input" type="radio" name="gender" id="exampleRadios3"
                     value="2"<?=showFormData('gender')==2?'checked':''?>>
                  <label class="form-check-label" for="exampleRadios3">
                     Female
                  </label>
               </div>
               <div class="form-check">
                  <input class="form-check-input" type="radio" name="gender" id="exampleRadios2"
                     value="3"<?=showFormData('gender')==3?'checked':''?>>
                  <label class="form-check-label" for="exampleRadios2">
                     Other
                  </label>
               </div>
            </div>
            <div class="form-floating mt-1">
                  <input type="email" name="email" value="<?=showFormData('email')?>" class="form-control rounded-0"
placeholder="username/email">
               <label for="floatingInput">email</label>
            </div>
            <?=showError('email')?>
            <div class="form-floating mt-1">
               <input type="text" name="username" value="<?=showFormData('username')?>" class="form-control rounded-
0" placeholder="username/email">
```

```
            <label for="floatingInput">username</label>
          </div>
          <?=showError('username')?>
          <div class="form-floating mt-1">
              <input type="password" name="password" value="<?=showFormData('password')?>" class="form-control
rounded-0" id="floatingPassword" placeholder="Password">
            <label for="floatingPassword">password</label>
          </div>
          <?=showError('password')?>
          <div class="mt-3 d-flex justify-content-between align-items-center">
            <button class="btn btn-primary" type="submit">Sign Up</button>
            <a href="?login" class="text-decoration-none">Already have an account ?</a>
          </div>
        </form>
      </div>
    </div>
```

Login page:

```
<link href="assets/css/style.css" rel="stylesheet">

<div class="login">
      <div class="col-4 bg-white border rounded p-4 shadow-sm">
        <form method="post" action="assets/php/process.php?login">
          <div class="d-flex justify-content-center">
<h2 class="text-center" style="color:#00008B;font-family:cambria;font-size:300%"><b>NEXUS</b></h2></br></div>
            <p class="text-center" style="color:#583759;font-family:Dishonorable Mention Comic Sans"><b>INNOVATE
. CONNECT . THRIVE</b></p>
          <h1 class="h5 mb-3 fw-normal">Please sign in</h1>
          <div class="form-floating">
              <input type="text" name="username_email" value= "<?=showFormData('username_email')?>" class="form-
control rounded-0" placeholder="username/email">
            <label for="floatingInput">username/email</label>
          </div>
          <?=showError('username_email')?>
          <div class="form-floating mt-1">
                  <input type="password" name="password" class="form-control rounded-0" id="floatingPassword"
placeholder="Password">
            <label for="floatingPassword">password</label>
          </div>
          <?=showError('password')?>
          <?=showError('checkuser')?>
          <div class="mt-3 d-flex justify-content-between align-items-center">
            <button class="btn btn-primary" type="submit">Sign in</button>
            <a href="?signup" class="text-decoration-none">Create New Account</a>
          </div>
          <a href="?forgotpassword&newfp" class="text-decoration-none">Forgot password ?</a>
        </form>
      </div>
    </div>
```

Ajax.php:

```
<?php
require_once 'functions.php';
if(isset($_GET['sendmessage'])){
   if(sendMessage($_POST['user_id'],$_POST['msg'])){
```

```
    $response['status']=true;
  }else{
    $response['status']=false;
  }
  echo json_encode($response);
}
if(isset($_GET['getmessages'])){
$chats = getAllMessages();
$chatlist="";
// echo "<pre>";
// print_r($chats);
foreach($chats as $chat){
  $ch_user = getUser($chat['user_id']);
      $seen=false;
  if($chat['messages'][0]['read_status']==1 || $chat['messages'][0]['from_user_id']==$_SESSION['userdata']['id']){
    $seen = true;
  }
  $chatlist.='
      <div class="d-flex justify-content-between border-bottom chatlist_item" data-bs-toggle="modal" data-bs-
target="#chatbox" onclick="popchat('.$chat['user_id'].')" >
                <div class="d-flex align-items-center p-2">
                        <div><img src="assets/images/profile/'.$ch_user['profilepic'].'" alt="" height="40" width="40"
class="rounded-circle border">
                  </div>
                  <div>  </div>
                  <div class="d-flex flex-column justify-content-center" >
                          <a href="#" class="text-decoration-none text-dark"><h6 style="margin: 0px;font-size:
small;">'.$ch_user['firstname'].' '.$ch_user['lastname'].'</h6></a>
                    <p style="margin:0px;font-size:small" class="">'.$chat['messages'][0]['msg'].'</p>
                                                <time style="font-size:small" class="timeago text-small"
datetime="'.$chat['messages'][0]['created_at'].'">'.gettime($chat['messages'][0]['created_at']).'</time>
                  </div>
                </div>
                <div class="d-flex align-items-center">

                  <div class="p-1 bg-primary rounded-circle '.($seen?'d-none':").'"></div>
                </div>
              </div>';
}
$json['chatlist'] = $chatlist;

if(isset($_POST['chatter_id']) && $_POST['chatter_id']!=0){
$messages = getMessages($_POST['chatter_id']);
$chatmsg="";
if(checkBS($_POST['chatter_id'])){
  $json['blocked']=true;
}else{
  $json['blocked']=false;
}
updateMessageReadStatus($_POST['chatter_id']);
foreach($messages as $cm){
if($cm['from_user_id']==$_SESSION['userdata']['id']){
  $cl1 = 'align-self-end bg-primary text-light';
  $cl2 = 'text-light';
}else{
  $cl1 = '';
  $cl2 = 'text-muted';
}
  $chatmsg.=' <div class="py-2 px-3 border rounded shadow-sm col-8 d-inline-block '.$cl1.'">'.$cm['msg'].'<br>
  <span style="font-size:small" class="'.$cl2.'">'.gettime($cm['created_at']).'</span>
</div>';
}
$json['chat']['msgs']=$chatmsg;
```

```
$json['chat']['userdata']=getUser($_POST['chatter_id']);
}else{
$json['chat']['msgs']='<div class="spinner-border text-center" role="status">
</div>';
}
$json['newmsgcount']=newMsgCount();
echo json_encode($json);
}
if(isset($_GET['unblock'])){
  $user_id = $_POST['user_id'];
    if(unblockUser($user_id)){
        $response['status']=true;
    }else{
        $response['status']=false;
    }
    echo json_encode($response);
}
if(isset($_GET['notread'])){
       if(setNotificationStatusAsRead()){
        $response['status']=true;
    }else{
        $response['status']=false;
    }
    echo json_encode($response);
}
if(isset($_GET['follow'])){
    $user_id = $_POST['user_id'];
    if(followUser($user_id)){
        $response['status']=true;
    }else{
        $response['status']=false;
    }
    echo json_encode($response);
}
if(isset($_GET['unfollow'])){
    $user_id = $_POST['user_id'];
    if(unfollowUser($user_id)){
        $response['status']=true;
    }else{
        $response['status']=false;
    }
    echo json_encode($response);
}
if(isset($_GET['like'])){
    $post_id = $_POST['post_id'];
    if(!checkLikeStatus($post_id)){
        if(like($post_id)){
            $response['status']=true;
        }else{
            $response['status']=false;
        }
            echo json_encode($response);
    }
  }
if(isset($_GET['unlike'])){
    $post_id = $_POST['post_id'];
    if(checkLikeStatus($post_id)){
        if(unlike($post_id)){
            $response['status']=true;
        }else{
            $response['status']=false;
        }
          echo json_encode($response);
```

```
    }
  }
if(isset($_GET['addcomment'])){
    $post_id = $_POST['post_id'];
    $comment = $_POST['comment'];
        if(addComment($post_id,$comment)){
      $cuser = getUser($_SESSION['userdata']['id']);
      $time = date("Y-m-d H:i:s");
          $response['status']=true;
          $response['comment']='<div class="d-flex align-items-center p-2">
          <div><img src="assets/images/profile/'.$cuser['profilepic'].'" alt="" height="40" class="rounded-circle border">
          </div>
          <div>   </div>
          <div class="d-flex flex-column justify-content-start align-items-start">
                        <h6 style="margin: 0px;"><a href="?u='.$cuser['username'].'" class="text-decoration-none text-
muted">@'.$cuser['username'].'</a> - '.$_POST['comment'].'</h6>
             <p style="margin:0px;" class="text-muted" style="font-size:small">(just now)</p>
          </div>
       </div>';
       }else{
          $response['status']=false;
       }
          echo json_encode($response);
    }
if(isset($_GET['search'])){
    $keyword = $_POST['keyword'];
    $data = searchUser($keyword);
$users="";
    if(count($data)>0){
       $response['status']=true;
           foreach($data as $fuser){
          $fbtn='';
               $users.=' <div class="d-flex justify-content-between">
                    <div class="d-flex align-items-center p-2">
                        <div><img src="assets/images/profile/'.$fuser['profilepic'].'" alt="" height="40" class="rounded-circle
border">
                        </div>
                        <div>  </div>
                        <div class="d-flex flex-column justify-content-center">
                                <a href="?u='.$fuser['username'].'" class="text-decoration-none text-dark"><h6 style="margin:
0px;font-size: small;">'.$fuser['firstname'].' '.$fuser['lastname'].'</h6></a>
                           <p style="margin:0px;font-size:small" class="text-muted">@'.$fuser['username'].'</p>
                        </div>
                    </div>
                    <div class="d-flex align-items-center">
                      '.$fbtn.'

                    </div>
                </div>';
            }
     $response['users']=$users;
    }else{
       $response['status']=false;
    }
    echo json_encode($response);
}
```

investor.php:

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Investment Application</title>
   </head>
<body>
   <div class="container">
      <h1>Investment Application Form</h1>
           <form id="investmentForm" action="databasei.php" method="post" onsubmit="return validatePassword();"
autocomplete="off">
         <div class="form-group">
            <label for="investorName">Investor Name:</label>
            <input type="text" id="investorName" name="investorName" required>
         </div>
         <div class="form-group">
            <label for="investmentAmount">Amount ($):</label>
            <input type="number" id="investmentAmount" name="investmentAmount" required>
         </div>
         <div class="form-group">
            <label for="investmentType">Type:</label>
            <select id="investmentType" name="investmentType" required>
               <option value="">-- Select --</option>
               <option value="Loan">Loan</option>
               <option value="Self">Self</option>
            </select>
         </div>
         <div class="form-group">
            <label for="deadline">Deadline:</label>
            <input type="date" name="deadline" required>
         </div>
         <div class="form-group password-toggle">
            <label for="password">Password:</label>
            <input type="password" id="password" name="password" required autocomplete="new-password">
            <button type="button" onclick="togglePasswordVisibility()">👁‍🗨</button>
         </div>
         <button type="submit">Submit Application</button>
      </form>
   </div>
   <script>
      function togglePasswordVisibility() {
         var passwordInput = document.getElementById('password');
         var toggleButton = document.querySelector('.password-toggle button');
         if (passwordInput.type === 'password') {
            passwordInput.type = 'text';
            toggleButton.textContent = '👁‍🗨';
         } else {
            passwordInput.type = 'password';
            toggleButton.textContent = '👁‍🗨';
         }
      }
          function validatePassword() {
         var password = document.getElementById('password').value;
         var passwordRegex = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{6,}$/;
         if (!passwordRegex.test(password)) {
            alert('Password must include at least one uppercase letter, one lowercase letter, one digit, and one symbol.');
            return false;
         }
      }
   </script>

</body>
</html>
```

Machine Learning code

```
import pandas as pd
from sklearn.cluster import KMeans
from sklearn.ensemble import RandomForestRegressor
from sklearn.preprocessing import LabelEncoder
import plotly.graph_objects as go
from sqlalchemy import create_engine

db_config = {
    'host': '127.0.0.1',
    'user': 'root',
    'password': '',
    'database': 'nhoblidar@gmail.com'
}

try:
    engine =
create_engine(f"mysql+mysqlconnector://{db_config['user']}:{db_config['password']}@{db_config['host']}/{db_config['da
tabase']}")
    conn = engine.connect()

    query = "SELECT StartupName, StartupDomain, Revenue2020, Revenue2021, Revenue2022, Revenue2023,
Expenses2023, Profit FROM entry"
    df = pd.read_sql_query(query, conn)

    df = df.drop_duplicates()

    df['StartupName'] = df['StartupName'].str.replace('\r\n', '').str.strip()
    df['StartupDomain'] = df['StartupDomain'].str.replace('\r\n', '').str.strip()

    label_encoder = LabelEncoder()
    df['StartupDomainEncoded'] = label_encoder.fit_transform(df['StartupDomain'])

    kmeans = KMeans(n_clusters=5, n_init=10, random_state=42)
    df['Cluster'] = kmeans.fit_predict(df[['StartupDomainEncoded']])

    ranked_results = pd.DataFrame(columns=['Cluster', 'ClusterRank', 'StartupName', 'StartupDomain',
                                           'Revenue2020', 'Revenue2021', 'Revenue2022', 'Revenue2023',
                                           'Expenses2023', 'Profit', 'ProjectedRevenue'])

    features = ['Revenue2020', 'Revenue2021', 'Revenue2022', 'Expenses2023', 'Profit']

    for cluster in df['Cluster'].unique():
        cluster_data = df[df['Cluster'] == cluster].copy()

        if not cluster_data.empty:
            cluster_data['StartupDomain'] = label_encoder.inverse_transform(cluster_data['StartupDomainEncoded'])
            cluster_data['ClusterRank'] = cluster_data['Revenue2023'].rank(ascending=False)

            X = cluster_data[features]
            y = cluster_data['Revenue2023']

            rf_regressor = RandomForestRegressor(n_estimators=100, random_state=42)
            rf_regressor.fit(X, y)

            cluster_data['ProjectedRevenue'] = rf_regressor.predict(X)

            cluster_data.sort_values('StartupDomain', inplace=True)

            if not cluster_data[features].isna().all().all() and not ranked_results.empty:
                ranked_results = pd.concat([ranked_results, cluster_data])
            elif not cluster_data[features].isna().all().all():
```

```
            ranked_results = cluster_data.copy()

    ranked_results.sort_values(['Cluster', 'ClusterRank'], inplace=True)

    fig = go.Figure(data=[go.Table(
        header=dict(values=['Cluster', 'ClusterRank', 'StartupName', 'StartupDomain',
                            'Revenue2020', 'Revenue2021', 'Revenue2022', 'Revenue2023',
                            'Expenses2023', 'Profit', 'ProjectedRevenue']),
        cells=dict(values=[ranked_results['Cluster'], ranked_results['ClusterRank'], ranked_results['StartupName'],
                           ranked_results['StartupDomain'], ranked_results['Revenue2020'],
                           ranked_results['Revenue2021'], ranked_results['Revenue2022'],
                           ranked_results['Revenue2023'], ranked_results['Expenses2023'],
                           ranked_results['Profit'], ranked_results['ProjectedRevenue']]))
    ])

    fig.update_layout(title_text="<b>Investment Recommendations by ML</b>")

    fig.write_html('table.php', auto_open=True)

except Exception as e:
    print(f"Error: {e}")

finally:
    if 'conn' in locals():
        conn.close()
```

APPENDIX-B

SCREENSHOTS

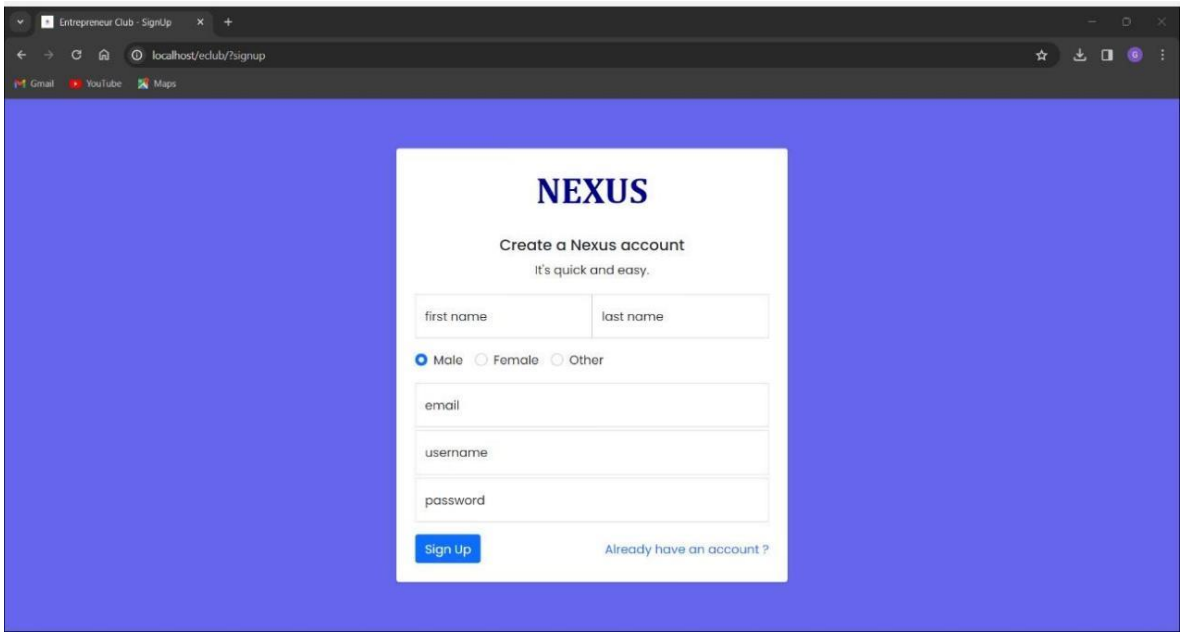

Fig-A Sign-up page

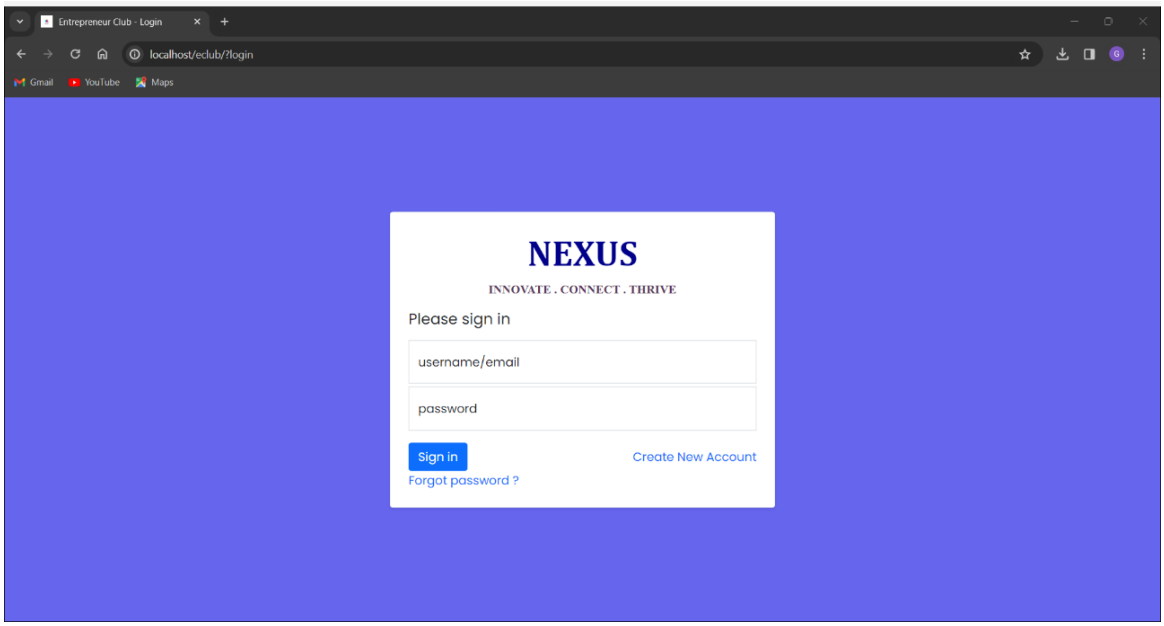

Fig-B Login Page

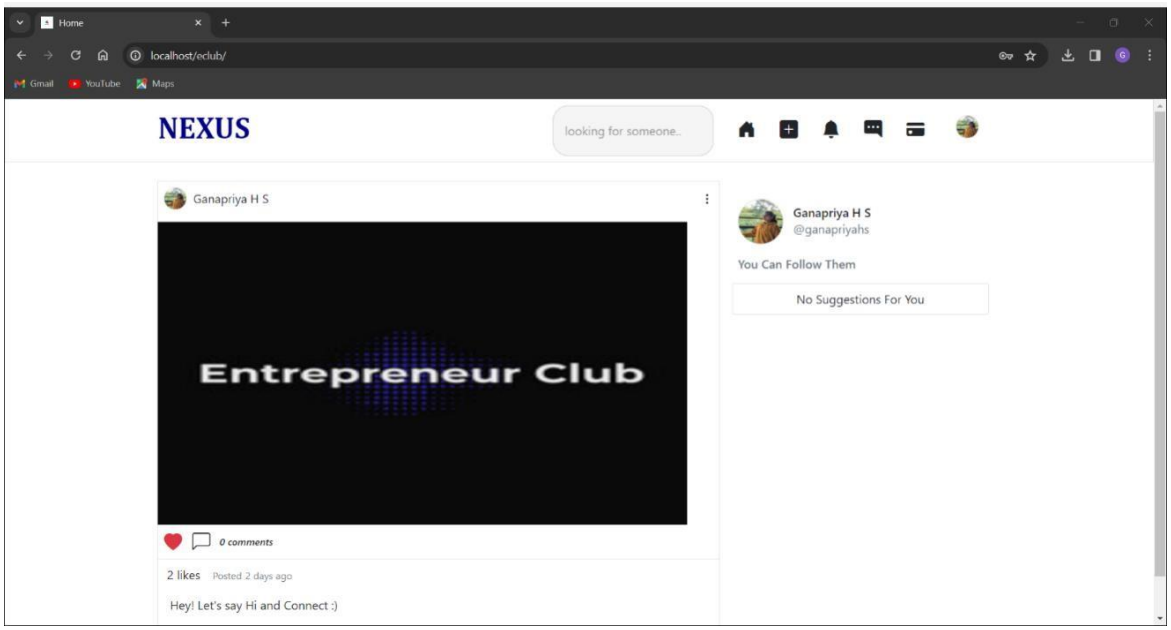

Fig-C Home page

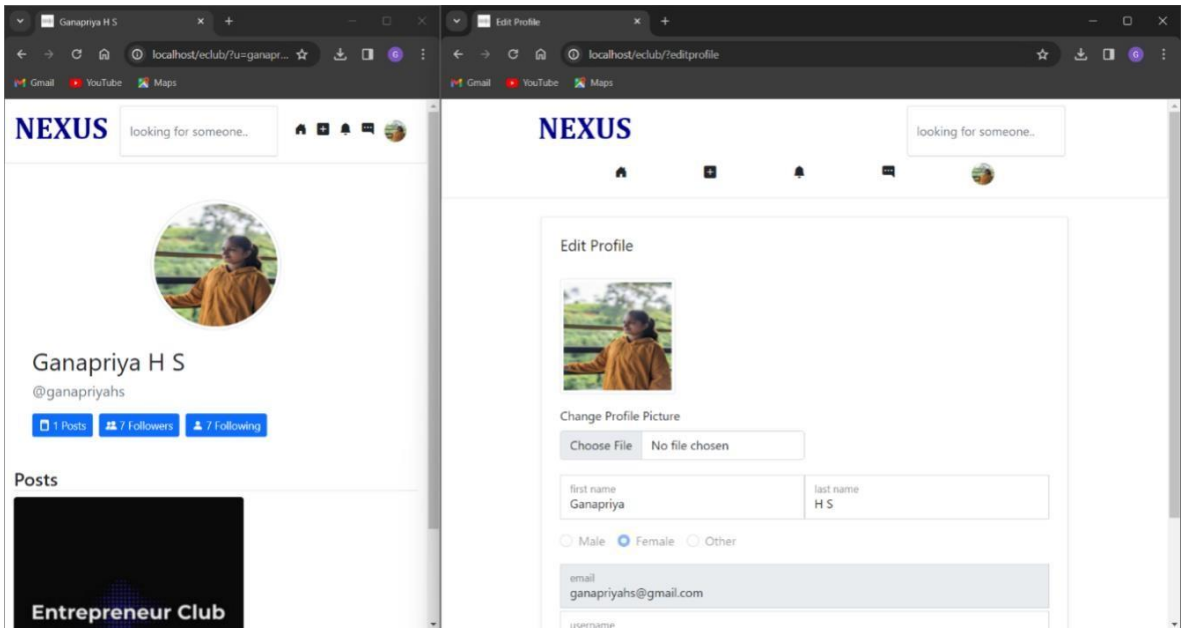

Fig-D Profile page

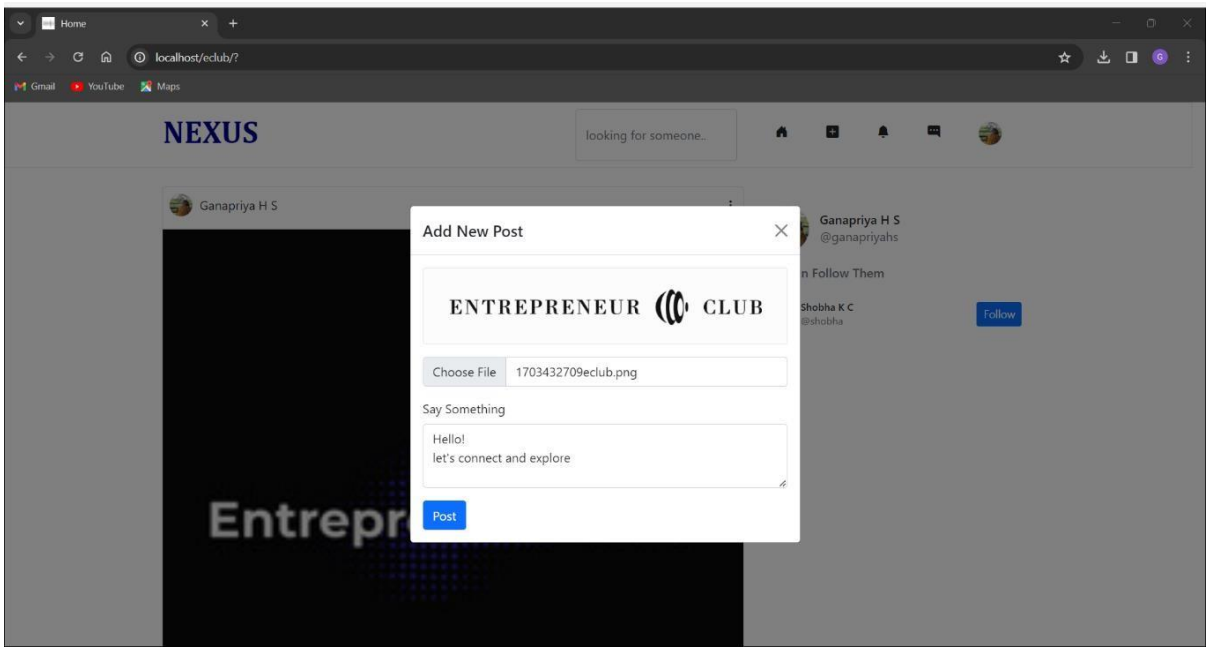

Fig-E Post page

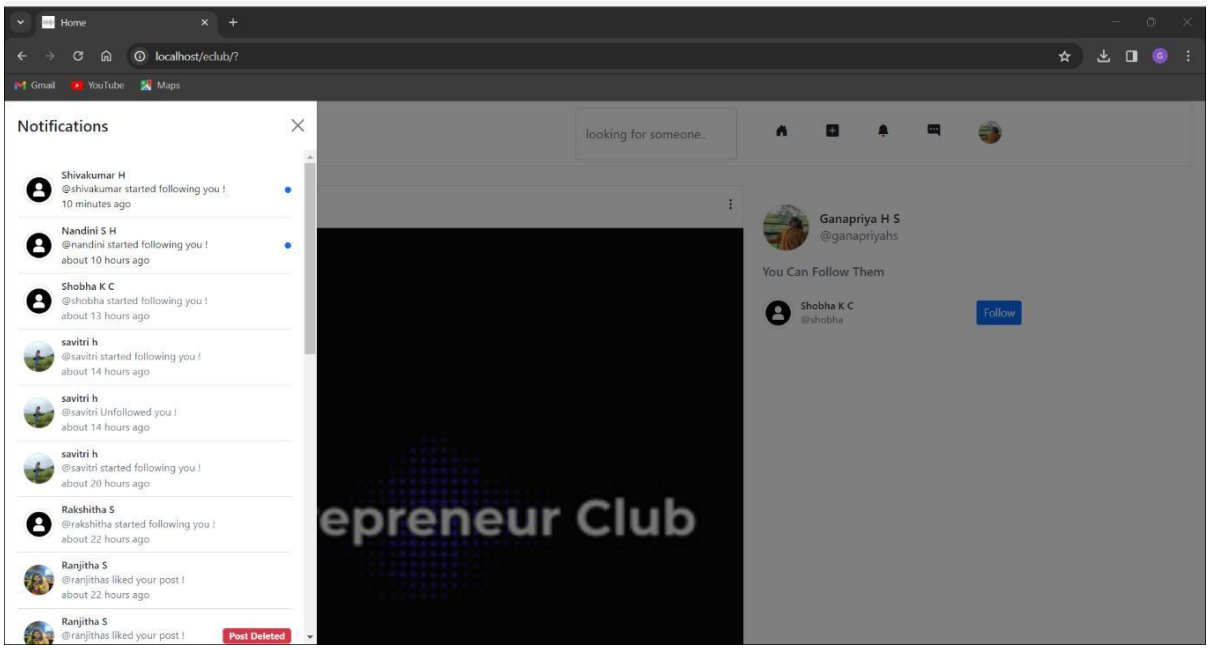

Fig-F Notification page

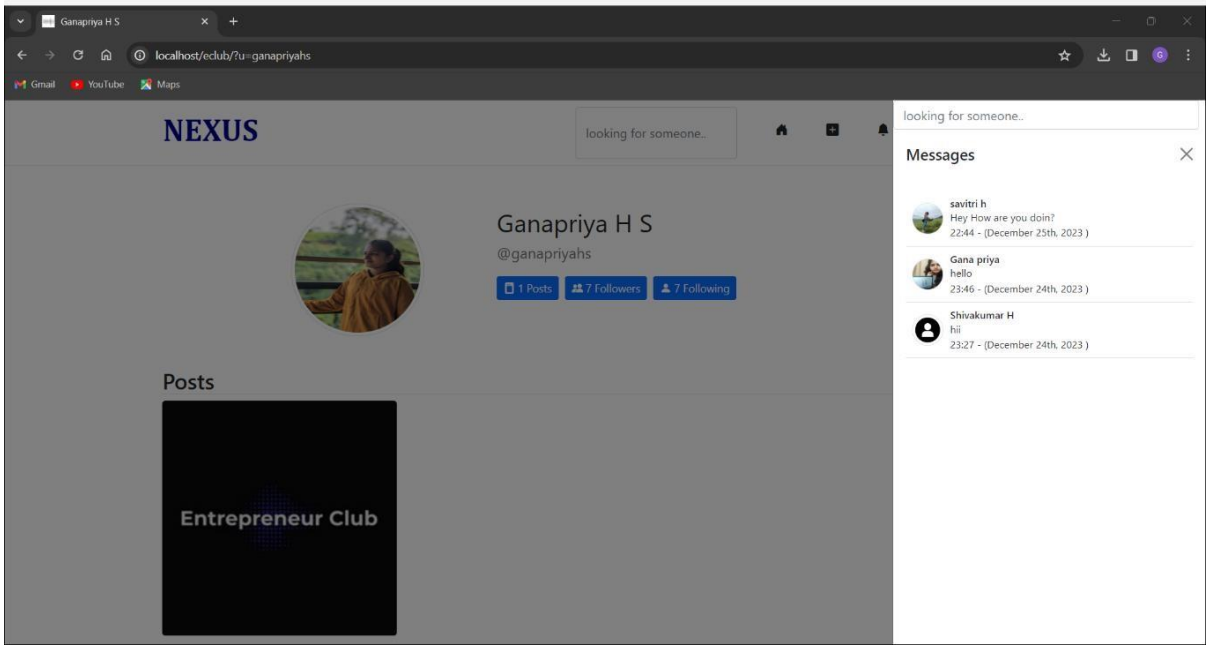

Fig-G Chatlist page

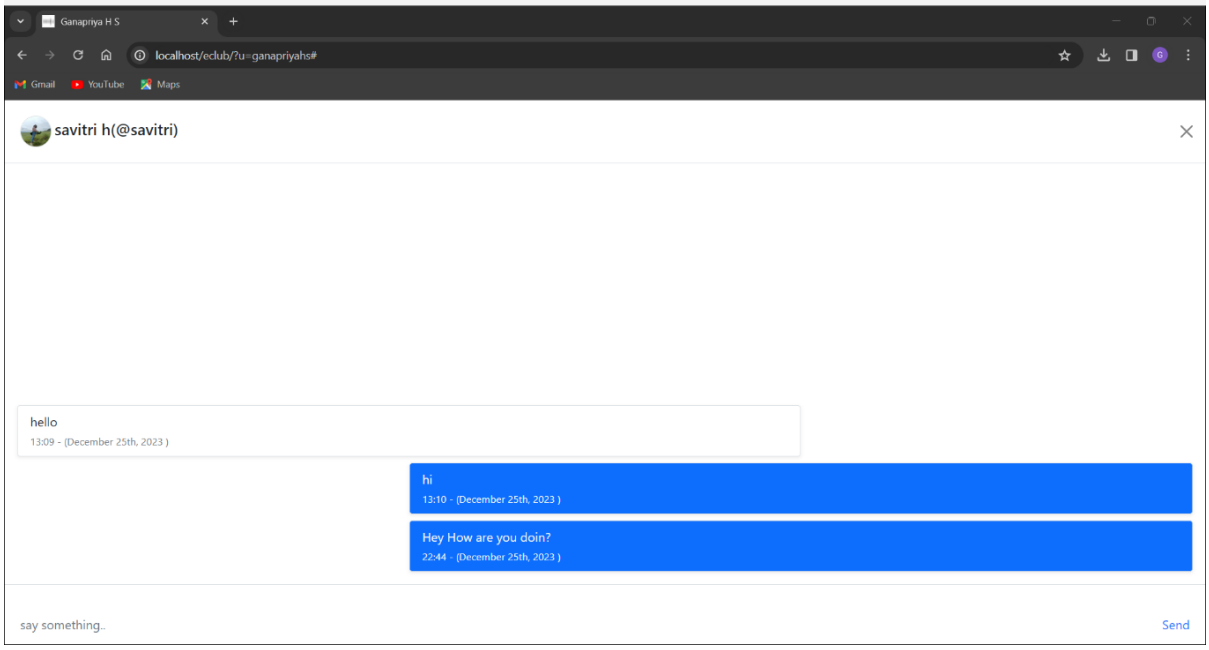

Fig-H Chat page

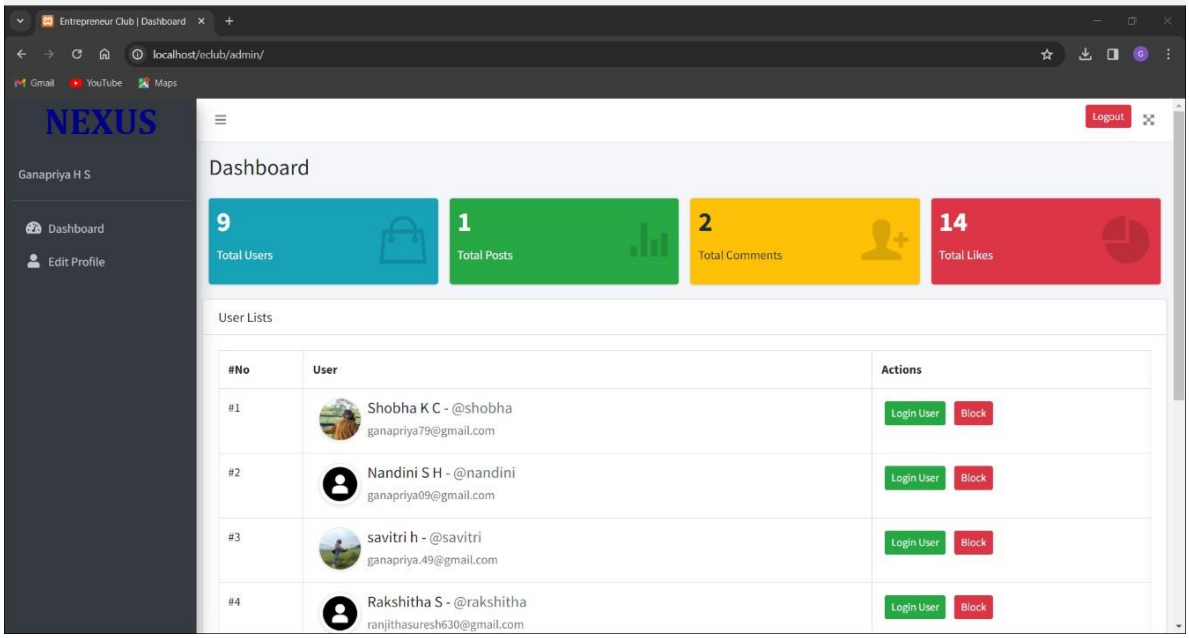

Fig-I Admin Panel for users

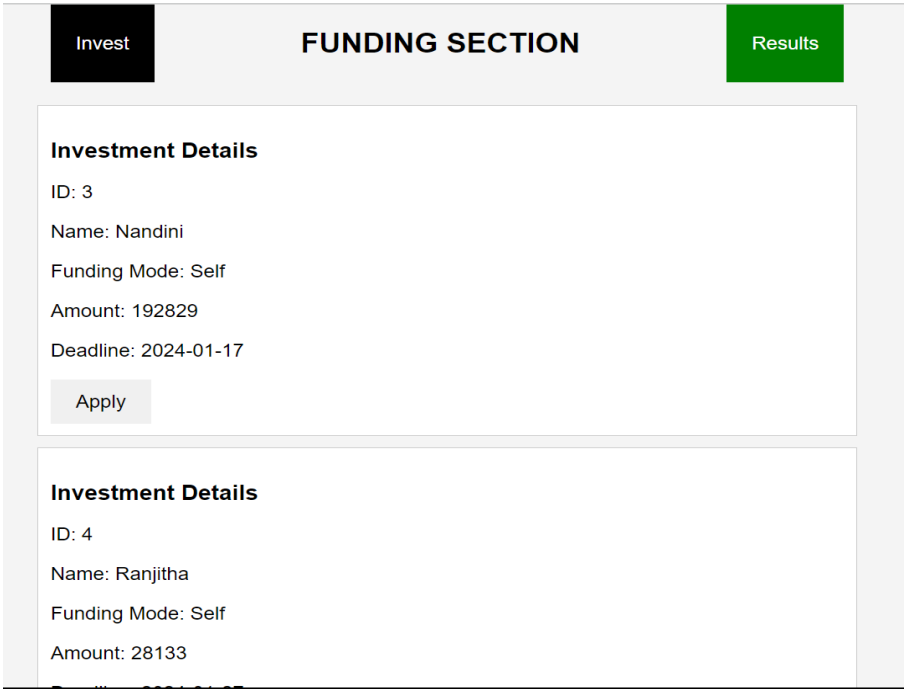

Fig-J Funding Section

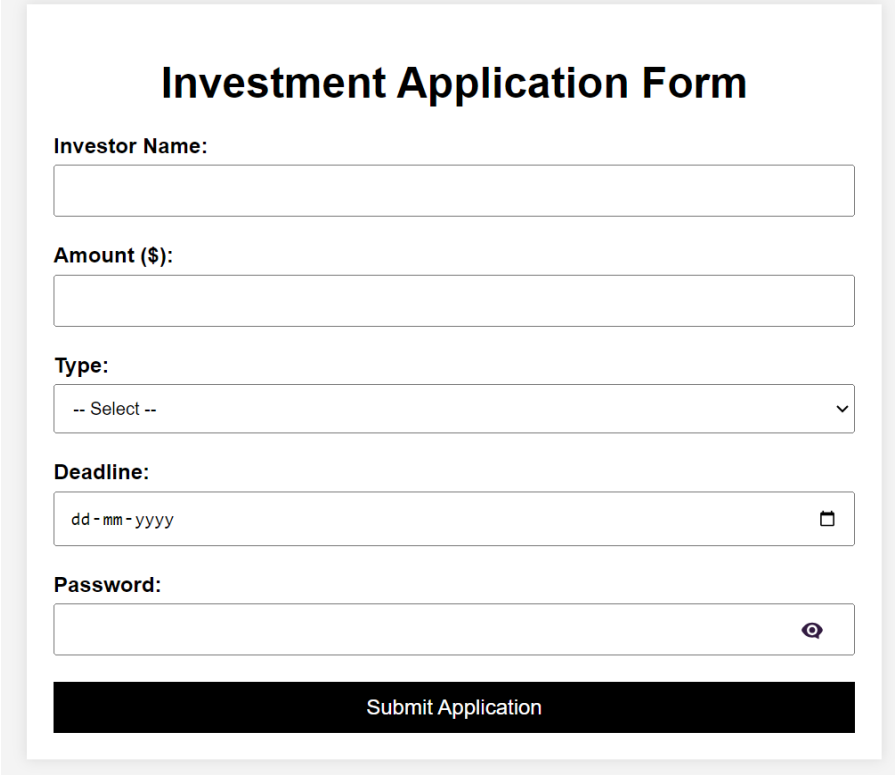

Fig-K Funding Form

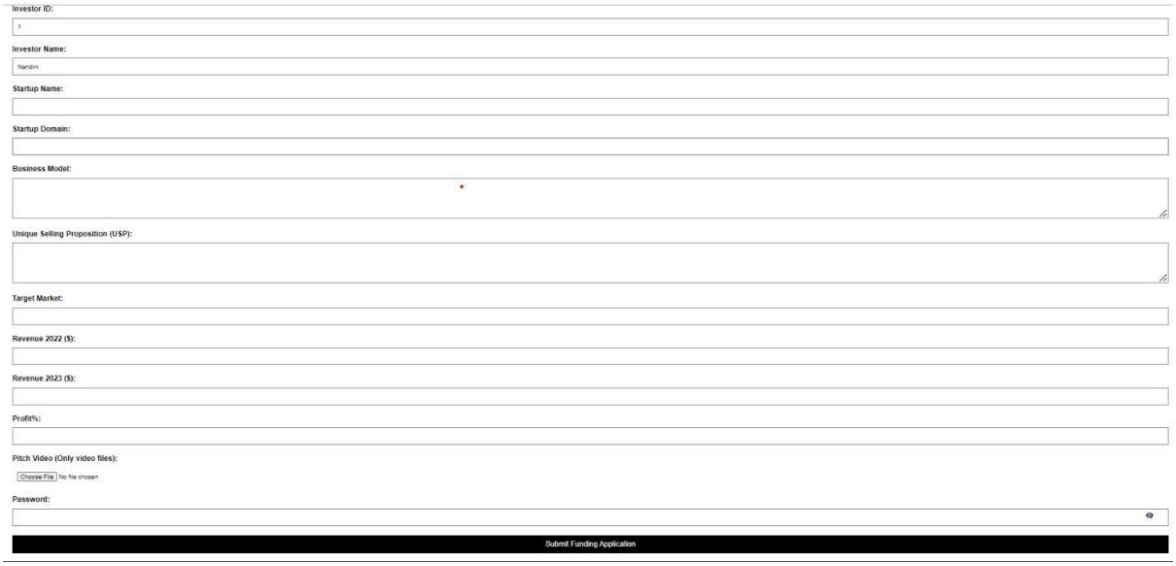

Fig-L Fund Seeking Application Form

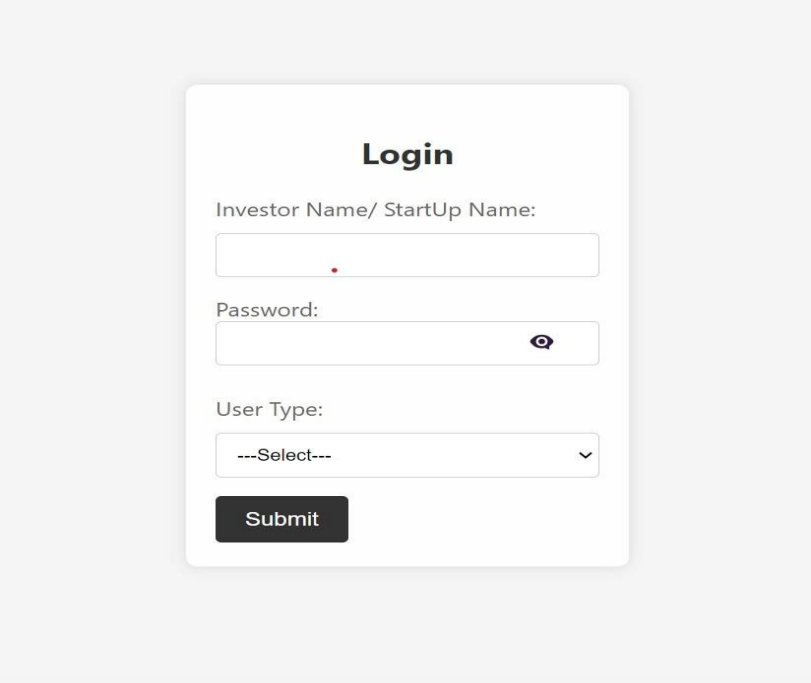

Fig-M Results Login Form

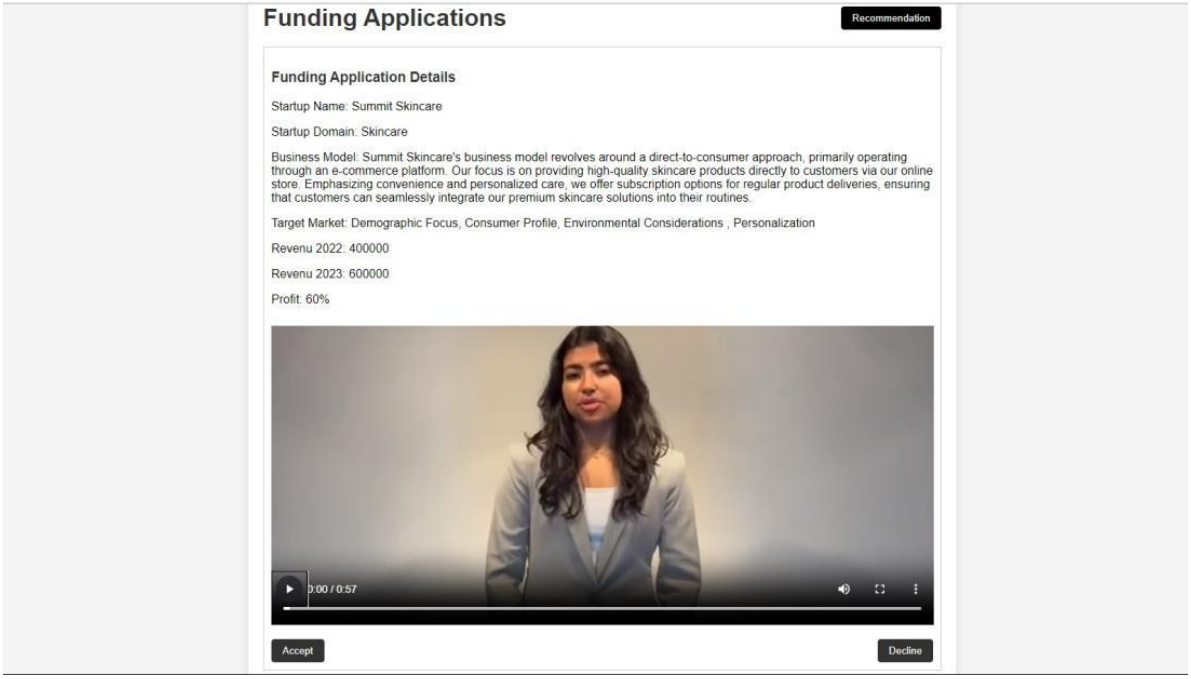

Fig-N Investor View Page

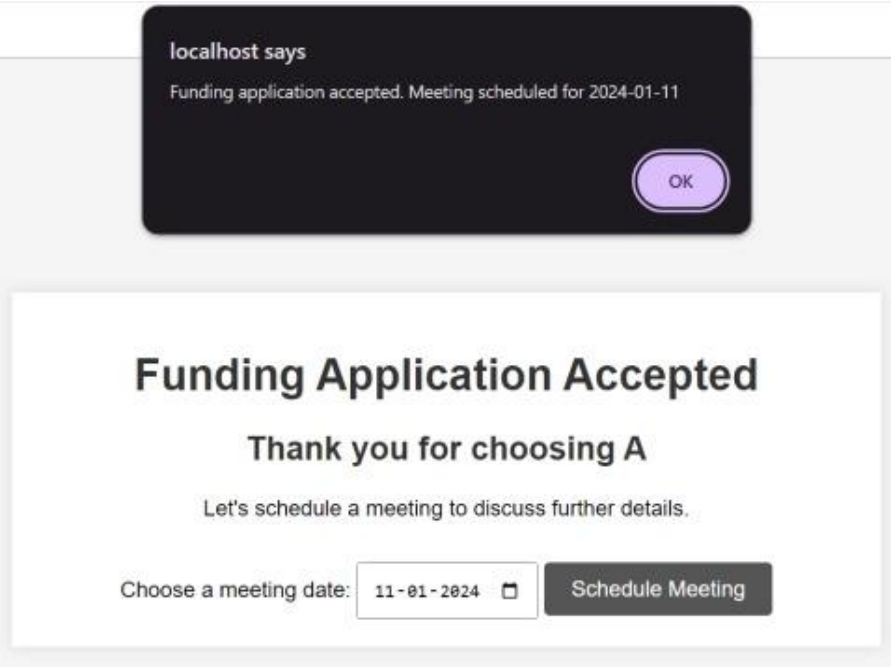

Fig-O Acceptance Page

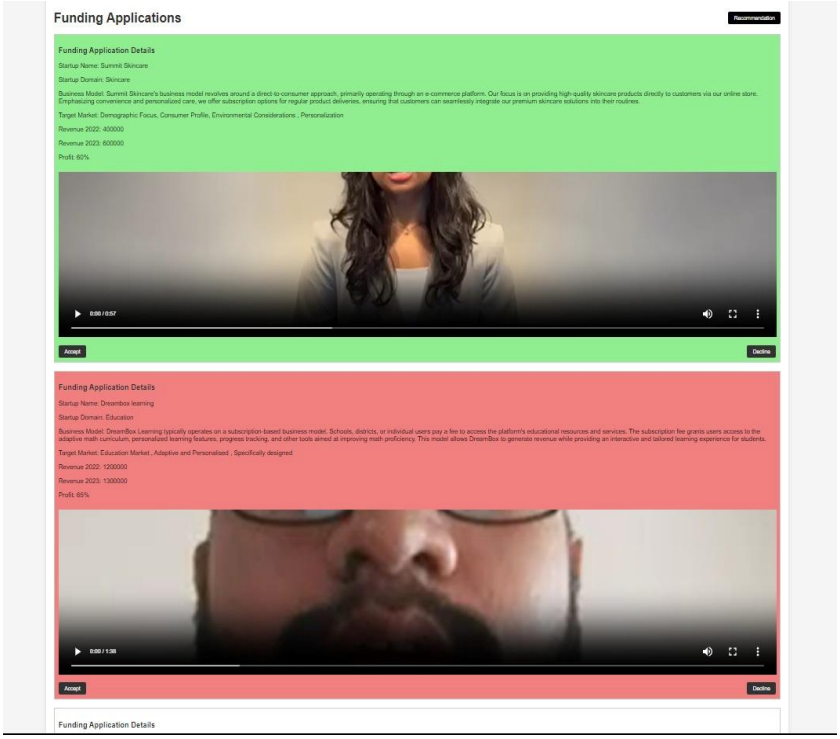

Fig-P Accept- Decline Page

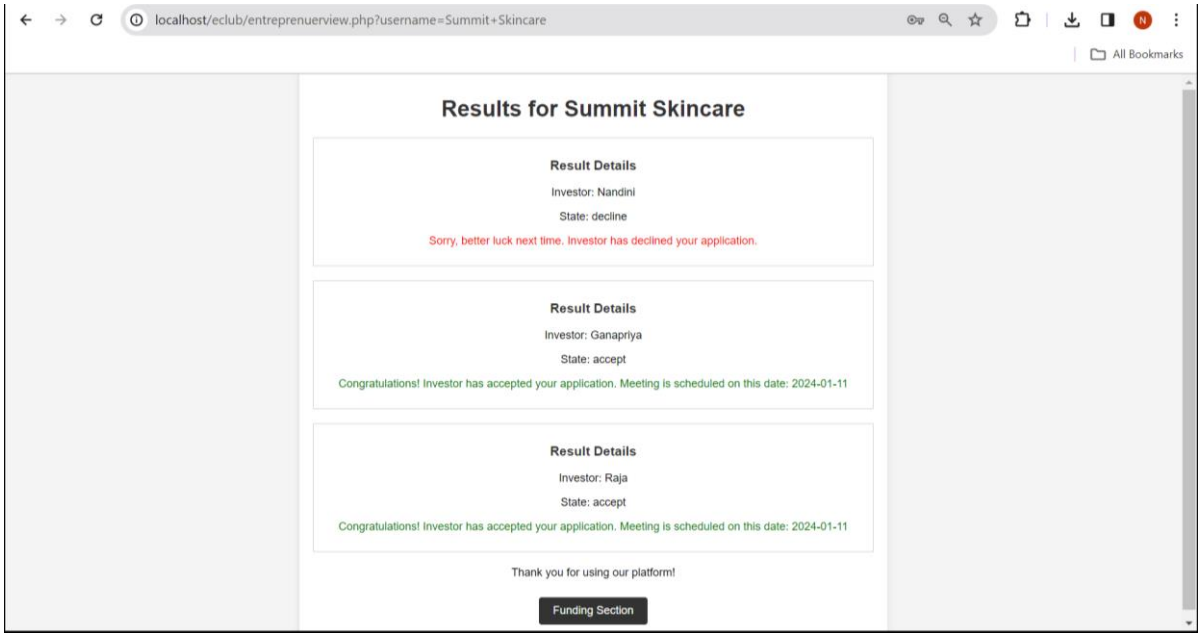

Fig-Q Entrepreneur View Page

Investment Recommendations by ML

Cluster	ClusterRank	StartupName	StartupDomain	Revenue2020	Revenue2021	Revenue2022	Revenue2023	Expenses2023	Profit	ProjectedRevenue
0	1	Dreambox learning	Education	450000	923000	1200000	1300000	400000	67	1196000
0	2	Kidaptive	Education	500000	700000	900000	1000000	350000	65	1002000
0	3	Vedantu	Education	357000	528000	700000	900000	320000	64	964000
1	1	Divine Circlets	Jewellery	500000	950000	1270000	1500000	589000	60	1382920
1	2	Ethereal Adornments	Jewellery	532000	890000	1048001	1258000	540000	57	1290960
1	3	GemCraft	Jewellery	199999	275000	384999	562000	175000	68	788340
2	1	Sugar	Skincare	450000	649999	820000	1350000	780000	42	1130500
2	2	CelestiaCharm Cosmetics	Skincare	225000	350000	500000	800000	280000	65	758000
2	3	Summit Skincare	Skincare	350000	450000	545000	650000	350000	25	731000
2	4	Summit Skincare	Skincare	225000	350000	400000	600000	230000	61	676000
3	1	Golden	Food	1200000	1800000	2000000	2100000	555000	10	1931000

Fig-R Recommendations by ML

```
IDLE Shell 3.11.1
File  Edit  Shell  Debug  Options  Window  Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec  6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\python11\ml.py ==========
Silhouette Score: 0.9166666666666666

Top-Ranked Startups According to Cluster Rankings:
               StartupName StartupDomain  ...  ClusterRank  ProjectedRevenue
4         Dreambox learning     Education  ...          1.0         1196000.0
5                 Kidaptive     Education  ...          2.0          990000.0
3                   Vedantu     Education  ...          3.0          946000.0
12          Divine Circlets     Jewellery  ...          1.0         1382920.0
11      Ethereal Adornments     Jewellery  ...          2.0         1290960.0
10                  GemCraft     Jewellery  ...          3.0          773820.0
0   CelestiaCharm Cosmetics      Skincare  ...          1.0          756000.0
1           Summit Skincare      Skincare  ...          2.0          652000.0
7         Golden Chopsticks          Food  ...          1.0         1871000.0
6           Gung The Palace          Food  ...          2.0         1793000.0
8         VillageVibe foods          Food  ...          3.0         1158000.0
2                 GameVista        Gaming  ...          1.0          600000.0

[12 rows x 8 columns]
>>>
```

Fig-S Accuracy of ML Implementation

Fig-T Database

APPENDIX-C

ENCLOSURES

1. Journal Paper Accepted

Paper Acceptance Notification for Paper ID "IJISRT24JAN548" Inbox ×

Ijisrt digital library <editor@ijisrt.com> 10:34 (45 minutes ago)
to me, ijisrt

Hello Author ,

Greetings of the day .....

Paper ID: *"IJISRT24JAN548"*

Paper Title: *"ONLINE INTERACTIVE ENTREPRENEUR CLUB"*

Congratulations.....

We are happy to inform you that your research paper has been "Accepted" for publishing in "International Journal of Innovative Science and Research Technology". After completion of the registration processes, your research paper will be available on IJISRT official website in Volume 9 - 2024 - Issue 1 - January.

Registration Amount :- 1500/- (INR)

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4	Submitted to M S Ramaiah University of Applied Sciences Student Paper	1%
5	Submitted to VinUniversity Student Paper	1%
6	Submitted to Amity University Student Paper	<1%
7	Submitted to University of California Riverside Student Paper	<1%
8	qspace.qu.edu.qa Internet Source	<1%

APPENDIX - D

SDG MAPPING

The Project work carried out here is mapped to SDG – 9 Industry, Innovation and Infrastructure.

In the context of the United Nations' Sustainable Development Goals (SDGs), "Industry, Innovation, and Infrastructure" is addressed in SDG 9, which aims to build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation. Comparing this goal to your online entrepreneur club involves examining how the club contributes to fostering innovation and supporting the growth of sustainable businesses. Our online entrepreneur club likely plays a vital role in promoting innovation by providing a platform for like-minded individuals to exchange ideas, collaborate, and learn from each other. The digital nature of the club allows entrepreneurs to connect regardless of geographical boundaries, fostering a diverse and collaborative community.

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the Project report **"ONLINE INTERACTIVE ENTREPRENUER CLUB"** being submitted by "SAVITRI HIREMATH, NANDINI S H, RANJITHA S, GANAPRIYA H S" bearing roll number(s) "20201CSE0877, 20201CSE0898, 20201CSE0904, 20201CSE0046" in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

Mr. JERRIN JOE FRANCIS
Assistant Professor
School of CSE
Presidency University

Dr. PALLAVI R
Associate Professor & HOD
School of CSE
Presidency University

Dr. C. KALAIARASAN
Associate Dean
School of CSE&IS
Presidency University

Dr. L SHAKKEERA
Associate Dean
School of CSE&IS
Presidency University

Dr. SAMEERUDDIN KHAN
Dean
School of CSE&IS
Presidency University

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE & ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **ONLINE INTERACTIVE ENTREPRENUER CLUB** in partial fulfilment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Mr. Jerrin Joe Francis, Assistant Professor, School of Computer Science and Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

NAME	ROLL NO	SIGNATURE
SAVITRI HIREMATH	20201CSE0877	
NANDINI S H	20201CSE0898	
RANJITHA S	20201CSE0904	
GANAPRIYA H S	20201CSE0046	