

# **ONLINE INTERACTIVE ENTREPRENEUR CLUB**

## **A PROJECT REPORT**

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*in partial fulfillment for the award of the degree of*

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**IN**

**COMPUTER SCIENCE AND ENGINEERING - DATA  
SCIENCE**

**At**



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# SCHOOL OF COMPUTER SCIENCE ENGINEERING

## CERTIFICATE

This is to certify that the Project report "ONLINE INTERACTIVE ENTREPRENEUR CLUB" being submitted by "MAHESH GOWDA S, DIVYA D, PARIM USHODAY, A ROHITH KUMAR" bearing roll number(s) "20211CSD0104,20211CSD0100,20211CSD0004,20211CSD0167" in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING - DATA SCIENCE is a Bonafide work carried out under my supervision.

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### DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **ONLINE INTERACTIVE ENTREPRENEUR CLUB** in partial fulfillment for the award of Degree of **Bachelor of Technology** in **COMPUTER SCIENCE AND ENGINEERING - DATA SCIENCE**, is a record of our own investigations carried under the guidance of, **Dr. LEELAMBIKA K.V, Assistant Professor, School of Computer Science Engineering & Information Science, Presidency University, Bengaluru.**

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

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## ABSTRACT

Entrepreneurs, as trailblazers of innovation, encounter significant challenges such as restricted access to funding and barriers to collaboration within their industries. The **Entrepreneurs Interactive Club** emerges as a multifaceted platform designed to bridge these gaps, providing accessible funding solutions, fostering meaningful collaborations, and enhancing global connectivity. Grounded in a vision to address traditional obstacles, this innovative platform transforms how entrepreneurs engage, offering practical applications for building partnerships, securing funding, and navigating connectivity hurdles. Its mission is to create an intuitive, technology-driven space that simplifies networking and collaboration while prioritizing funding access and acting as a comprehensive support framework.

This initiative not only tackles present-day challenges but embodies a commitment to empowering entrepreneurs and cultivating an ecosystem of dynamic growth and collaboration. The **Entrepreneurs Interactive Club** transcends conventional solutions, serving as a transformative force that envisions a thriving landscape where entrepreneurs excel, collaborate, and support one another. By redefining the entrepreneurial journey, it establishes a collaborative ecosystem fostering sustainable success and growth.

Entrepreneurs, the bedrock of innovation and economic advancement, are the architects of transformative ideas. In their ever-evolving journey through the competitive business landscape, these visionaries exemplify resilience, calculated risk-taking, and the profound potential of groundbreaking ideas. Their unwavering pursuit of novel concepts not only reshapes industries but also drives societal progress. Entrepreneurs act as catalysts for significant change, making vital contributions to economic expansion and employment generation.

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## **TABLE OF FIGURES**

SL NO	FIGURE NAME	CAPTION	PAGE NO.
1.	Figure 4.1	Block diagram of Online entrepreneur platform	29
	Figure 4.2	Use-case Diagram	30
2.	Figure 11.1	Investor info page	61
	Figure 11.2	Platform dashboard	61
	Figure 11.3	User Login Page	62
	Figure 11.4	Entrepreneur User Interface	62
	Figure 11.5	Query Chat Box	63

## **TABLE OF CONTENTS**

<b>CHAPTER NO.</b>	<b>TITLE</b>	<b>PAGE NO.</b>
	<b>ABSTRACT</b>	<b>i</b>
	<b>ACKNOWLEDGMENT</b>	<b>ii</b>
<b>1.</b>	<b>INTRODUCTION</b>	09-10
<b>2.</b>	<b>LITERATURE REVIEW</b>	11-13
<b>3</b>	<b>RESEARCH GAPS OF EXISTING METHODS</b>	14
<b>4</b>	<b>PROPOSED METHODOLOGY</b>	15-21
	4.1 User Research and Analysis	15
	4.2 Design and Prototyping	15
	4.3 Security Enhancements	16
	4.4 Testing and Quality Assurance	16-17
	4.5 Use-Cases	19-21
	4.6 Relationships and Interaction	21
<b>5</b>	<b>OBJECTIVES</b>	22-24
	5.1 Objectives	22-23
	5.2 Platform Development	23-24
<b>6</b>	<b>SYSTEM DESIGN &amp; IMPLEMENTATION</b>	25-27
	6.1 System Design	25-26
	6.2 Implementation	27
<b>7</b>	<b>TIMELINE FOR EXECUTION OF PROJECT</b>	28
<b>8</b>	<b>OUTCOMES</b>	29-
	8.1 E-Commerce Innovations and Digital Transformation	29-30
	8.2 Open-Source E-commerce Platforms	30-31
	8.3 Improved Entrepreneurial Ecosystem	32
	8.4 Performance Metrics	32
<b>9</b>	<b>RESULTS AND DISCUSSIONS</b>	33-35
	9.1 RESULTS	33-34
	9.2 DISCUSSION	34-35

<b>10</b>	<b>CONCLUSION</b>	36
	<b>REFERENCE</b>	37
	<b>APPENDIX-A PSUEDOCODE</b>	38-60
	<b>APPENDIX-B SCREENSHOTS</b>	61-63
	<b>APPENDIX-C ENCLOSURES</b>	64-74



# CHAPTER-1

## INTRODUCTION

Entrepreneurs are the backbone of innovation and economic development, embodying the transformative power of ideas. These visionary individuals, through their relentless efforts, demonstrate resilience, a willingness to take risks, and a commitment to groundbreaking concepts. Their ability to challenge the status quo drives industrial progress and fosters societal advancements. As agents of change, entrepreneurs play a vital role in economic development, contributing significantly to job creation and technological growth.

The entrepreneurial mindset is characterized by a readiness to push boundaries, tackle obstacles, and navigate uncertainties to bring about meaningful change. However, despite their critical contributions, entrepreneurs often face significant challenges that hinder their progress. Among the most pressing issues is the difficulty in securing adequate funding. The lack of accessible financial resources can obstruct the realization of innovative ideas and ambitious projects, emphasizing the need for reliable funding avenues to enable entrepreneurs to translate their visions into reality.

Another notable challenge lies in establishing meaningful collaborations within the entrepreneurial ecosystem. Building partnerships is essential for driving growth, encouraging innovation, and fostering a collaborative environment that supports shared success. Overcoming these barriers is crucial to unlocking new opportunities for entrepreneurs and ensuring a thriving business ecosystem.

In light of these challenges, the **Entrepreneurs Interactive Club** has been conceptualized as a strategic and innovative solution. This platform bridges the funding gap by connecting entrepreneurs with accessible financial resources, enabling them to bring their visionary projects to fruition. Additionally, the club serves as a central hub for fostering collaboration, creating opportunities for partnerships and synergies among industry players. By organizing events, hosting networking sessions, and providing valuable insights, the platform offers a supportive environment where entrepreneurs can thrive, exchange ideas, and collectively contribute to the ever-changing landscape of business and innovation.

The **Online Interactive Entrepreneur Club** project envisions building a virtual community that connects aspiring and seasoned entrepreneurs. Its primary goal is to promote collaboration, knowledge sharing, and business development through a digital platform. Members will have access to discussions, live workshops, and a wealth of resources tailored to support their entrepreneurial journey.

By leveraging modern digital tools, the platform aims to eliminate geographical barriers, enhance engagement, and create opportunities for learning. In today's digital age, online interactive platforms have become instrumental in fostering community building and collaboration. The integration of web technologies such as forums, real-time chat tools, and user management systems makes these platforms efficient enablers of connectivity and engagement.

This platform bridges the funding gap by connecting entrepreneurs with accessible financial resources, enabling them to bring their visionary projects to fruition. Additionally, the club serves as a central hub for fostering collaboration, creating opportunities for partnerships and synergies among industry players. These visionary individuals, through their relentless efforts, demonstrate resilience, a willingness to take risks, and a commitment to groundbreaking concepts. Their ability to challenge the status quo drives industrial progress and advancements.

## **CHAPTER-2**

### **LITERATURE SURVEY**

The literature review underscores the pivotal role of entrepreneurial clubs in fostering innovation, facilitating networking, and providing mentorship, which are critical elements for the success of startups. Traditionally, these clubs have delivered such benefits through in-person interactions and localized communities. However, with the advent of digital transformation, online platforms have emerged as an alternative, offering the same opportunities while removing geographical barriers. Research indicates that online communities significantly enhance learning and collaboration by enabling real-time communication and seamless knowledge sharing across diverse groups.

#### **Technologies for Online Entrepreneur Platforms**

##### **i. Custom Web Development Frameworks:**

Custom web development frameworks are essential for building unique and scalable online platforms tailored to specific business needs. These frameworks provide foundational tools and libraries for creating custom features, optimizing performance, and ensuring flexibility for future enhancements. Popular frameworks like **Django (Python)**, **Ruby on Rails (Ruby)**, and **Laravel (PHP)** simplify backend development by offering pre-built modules for handling authentication, databases, and API integration. On the frontend, frameworks like **React.js**, **Vue.js**, and **Angular** enable dynamic, responsive, and user-friendly interfaces. Custom frameworks are especially useful for entrepreneurs seeking a competitive edge, as they allow complete control over the platform's design, functionality, and scalability rather than relying on pre-made templates or plugins.

##### **I. Advantages:**

- High levels of customization for tailored functionality.
- Scalability to support a growing user base.
- Responsive design ensures accessibility across devices.
- Custom frameworks reduce reliance on third-party plugins, minimizing vulnerabilities.
- A unique platform can help entrepreneurs stand out in a competitive market.

## **II. Limitations:**

- Development requires advanced technical expertise.
- Longer timelines for implementation compared to pre-built solutions.
- Ongoing updates and bug fixes require a dedicated team, increasing long-term costs.

### **ii. Social Media Platform Integration:**

Social media platform integration allows online entrepreneur platforms to connect with popular social networks like **Facebook**, **Instagram**, **Twitter (X)**, **LinkedIn**, and others. This integration enables features such as social login, content sharing, automated posts, and analytics, helping entrepreneurs reach a broader audience and streamline marketing efforts. APIs provided by social platforms, like the **Facebook Graph API**, **Twitter API**, and **Instagram Basic Display API**, make it possible to sync user activity, gather insights, and manage campaigns directly from the platform. Social media integration enhances user engagement by enabling seamless content sharing and fostering brand visibility across multiple channels

## **I. Advantages:**

- Access to an extensive, pre-existing user base.
- Built-in features for interaction, such as discussion threads and event scheduling.
- Enables automated post scheduling, social media ads, and real-time analytics for better campaign management.
- Encourages users to share platform content on their social profiles, boosting organic growth.

## **II. Limitations:**

- Limited control over platform features and functionality.
- Concerns regarding data privacy and ownership.
- Properly implementing APIs can be technically challenging and resource-intensive.

### **iii. Content Management Systems (CMS):**

Content Management Systems (CMS) are software platforms that simplify the creation, management, and delivery of digital content without requiring extensive technical expertise. Popular CMS platforms like **WordPress**, **Drupal**, **Joomla**, and **Magento** provide pre-built templates, plugins, and customization options, making them ideal for entrepreneurs building online

platforms. These systems allow users to create and manage content, such as blog posts, product listings, and multimedia, through a user-friendly interface. CMS platforms can also integrate with third-party tools for SEO, analytics, e-commerce, and more, streamlining operations and enhancing functionality.

**I. Advantages:**

- User-friendly interfaces make it accessible to non-technical users.
- Customizable themes and plugins provide a range of functionalities.

**II. Limitations:**

- Scalability can be restricted for larger platforms.
- Customization beyond basic features often requires coding expertise.

## **CHAPTER-3**

### **RESEARCH GAPS OF EXISTING METHODS**

The application enables users to identify and capitalize on entrepreneurial opportunities. This facilitates the translation of conceptual ideas into meticulously structured and actionable business plans. Additionally, the app supports users by demonstrating competence in mobilizing and securing the resources essential for the successful launch of a new venture.

The entrepreneurial discovery was influenced by individual social capital, as revealed in an empirical study involving 1700 entrepreneurs. These findings indicate that strong network support significantly enhances the likelihood of both survival and sales growth.

In an evolving business environment, startups can strengthen their online presence by integrating social media marketing strategies. This approach facilitates cost-effective engagement with potential customers, enhances brand visibility, and provides real-time feedback, underscoring the importance of credibility building through authentic narratives and the strategic use of social media analytics for refining marketing strategies.

Social network theory is acknowledged not just as a tool for entrepreneurship but also as a notable factor impacting entrepreneurial conduct. Going beyond a broad introduction to social network theory, this research investigates unique viewpoints regarding the complex relationship between social networks and entrepreneurship. More specifically, it examines the intricacies of social networks and their impact on the entrepreneurial intentions, identification of opportunities, entrepreneurial orientation, and innovative capabilities of emerging ventures. The provided insights tackle crucial matters in both the realm of entrepreneurship and academic exploration.

The analysis delves into the fundamental aspects of social network theory. This underscores the significance of the network as an autonomous variable in acquiring information and resources. The study specifically concentrates on entrepreneurs' skills in comprehending, owning, cultivating, and leveraging social networks, establishing a basis for thorough analysis and future investigation.

## CHAPTER-4

### PROPOSED METHODOLOGY

#### 4.1 User Research and Analysis:

Conduct comprehensive surveys to gather detailed feedback from a diverse group of potential users. Organize and facilitate focus groups to encourage open discussions, enabling participants to share their experiences and expectations. Analyze the data collected to uncover trends, user preferences, and pain points. Evaluate existing platforms in the market to assess their strengths and weaknesses. This meticulous process is essential for identifying critical features, ensuring that the project aligns closely with user needs and delivers maximum value.

User research and analysis are critical for developing an effective online interactive entrepreneur club. This process involves understanding the target audience's needs, preferences, and behavior to create a platform that fosters engagement and collaboration. Techniques such as surveys, focus groups, interviews, and analytics tools can be used to gather insights about user demographics, interests, and pain points. For an interactive entrepreneur club, this research can inform key features like discussion forums, networking opportunities, resource-sharing sections, and personalized content. By analyzing user behavior and feedback, the platform can be continually optimized to ensure relevance, usability, and a sense of community, ultimately driving active participation and long-term loyalty.

#### 4.2 Design and Prototyping:

Develop detailed wireframes that outline the structure and layout of the platform, ensuring a clear and intuitive user experience. Create interactive prototypes to visualize and test the design's functionality in real-time. Prioritize a user-friendly, responsive interface that adapts seamlessly across devices. Gather iterative feedback from stakeholders and potential users to identify areas for improvement. Refine the design through multiple iterations, focusing on aesthetics, usability, and performance to achieve an optimal final product. Agile Development: Adopt Agile methodologies to develop the platform in incremental phases, integrating features like networking tools, mentorship options, and workshop modules.

Design and prototyping are crucial steps in creating an effective and user-friendly online interactive entrepreneur club. The design phase focuses on crafting an intuitive user interface (UI) and seamless user experience (UX) that align with the platform's goals and audience preferences. Wireframes and mockups are created to visualize the structure and layout of the platform. Prototyping, on the other hand, involves developing interactive models that simulate the platform's functionality. Tools like **Figma**, **Adobe XD**, or **Sketch** are often used for this purpose. These

prototypes allow for early testing and feedback, enabling entrepreneurs to identify and address potential usability issues before full-scale development. This iterative process ensures the final platform design is both visually appealing and highly functional, fostering engagement and satisfaction among users.

### 4.3 Security Enhancements:

Incorporate robust security measures to safeguard the platform against potential threats and vulnerabilities. Implement advanced encryption protocols to protect sensitive data during transmission and storage. Integrate multi-factor authentication and secure login processes to enhance user account safety. Conduct regular security audits and vulnerability assessments to identify and address potential risks proactively. Establish routine data protection protocols, including automated backups and compliance with relevant data privacy regulations. These efforts ensure the platform remains safe, reliable, and trusted by its users.

Security enhancements are vital for protecting an online interactive entrepreneur club from potential threats such as data breaches, hacking attempts, and unauthorized access. Key measures include implementing SSL/TLS encryption for secure data transmission, multi-factor authentication (MFA) for account protection, and role-based access control (RBAC) to limit sensitive information access. Regular vulnerability assessments and penetration testing can identify and address weaknesses in the platform's infrastructure. Additionally, measures such as data encryption, secure API usage, and compliance with regulations like GDPR or CCPA ensure user data privacy. Real-time monitoring and automated threat detection tools further safeguard the platform by identifying suspicious activities promptly. These security enhancements build trust among users, ensuring they feel confident in interacting and sharing information within the platform.

### 4.4 Testing and Quality Assurance:

Carry out extensive functional testing to verify that all features and components of the platform operate as intended. Perform thorough usability testing to ensure a seamless and intuitive user experience. Engage beta users to explore the platform in real-world scenarios, gathering valuable feedback on performance, usability, and potential pain points. Analyze the feedback to identify and address bugs, inefficiencies, or inconsistencies. Continuously refine the platform through iterative adjustments, optimizing it for stability, responsiveness, and overall performance.

Testing and Quality Assurance (QA) are essential steps in ensuring the reliability, performance, and usability of an online interactive entrepreneur club. This process involves systematically identifying and resolving issues before the platform's launch. Various testing methods are used, including **functional testing** to verify that features work as intended, **performance testing** to ensure the platform can handle high traffic, and **usability testing** to assess user experience. Security testing is also conducted to identify vulnerabilities and protect user data. Automation tools like



**Selenium**, alongside manual testing, help streamline the QA process. Regularly updating the test environment and incorporating user feedback into the QA cycle ensure the platform remains robust and aligned with user expectations over time.

### **Frontend Development:**

Leverage modern tools and frameworks such as HTML, CSS, and Angular to craft an engaging, interactive, and responsive user interface. Focus on delivering a visually appealing design that ensures a seamless experience across various devices and browsers. Prioritize accessibility and usability to cater to a diverse user base.

### **Backend Development:**

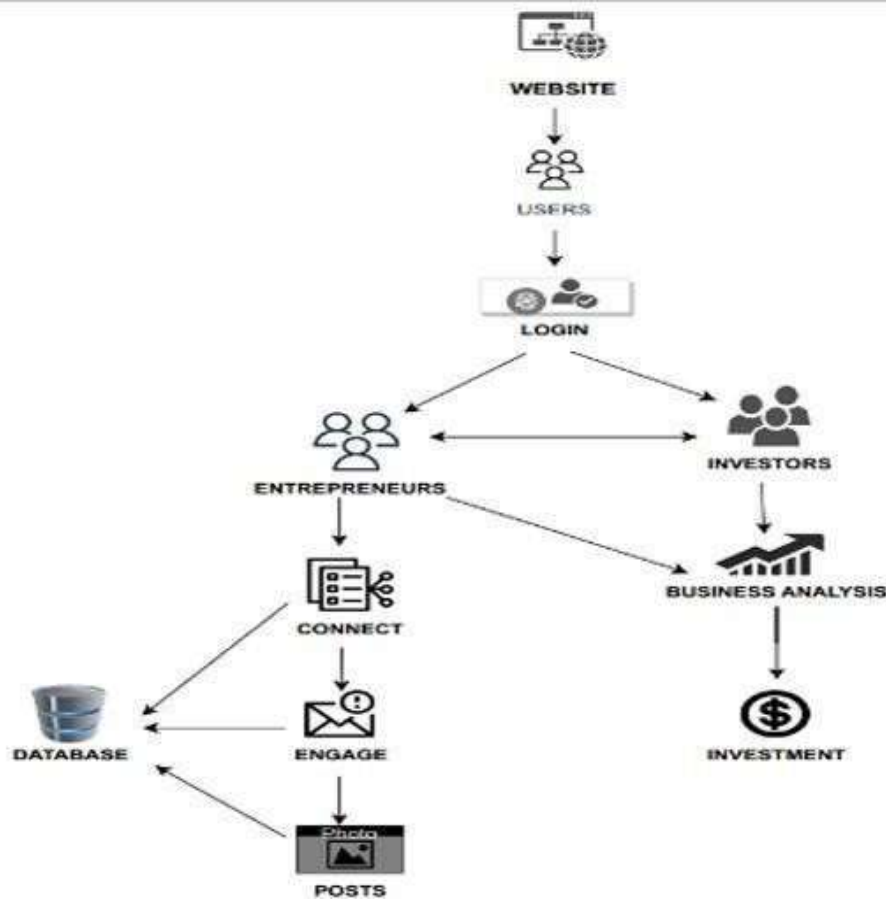
Utilize robust server-side technologies, such as PHP, to efficiently manage backend processes and ensure seamless communication between the server and database. Build scalable APIs to handle user requests and data processing, providing a solid foundation for the platform's functionality.

### **Database Management:**

Implement efficient database solutions such as MySQL or Firebase to enable real-time data storage, retrieval, and synchronization. Design a well-structured schema to organize data effectively and optimize performance for large-scale operations. Incorporate redundancy and backups to ensure data integrity and reliability.

### **Authentication Security:**

Integrate advanced authentication mechanisms like OAuth2 or similar systems to guarantee secure user access and protect sensitive information. Employ encryption techniques and session management protocols to prevent unauthorized access. Regularly update and test the authentication system to stay ahead of potential threats.



**Figure 4.1 Block diagram**

The provided diagram represents the architecture and functionality of an Online Entrepreneur Club. Users, including entrepreneurs and investors, access the platform through a centralized website, which serves as the primary entry point. After logging in, entrepreneurs can connect with peers, share posts, and engage in discussions to foster collaboration and networking. These posts, including multimedia content, are stored in a robust database that manages all user interactions and content efficiently. Investors, on the other hand, utilize the platform to analyze business opportunities presented by entrepreneurs. Using business analysis tools, they evaluate pitches and decide on potential investments. This system enables seamless communication between entrepreneurs and investors, encouraging funding opportunities for innovative ideas. By integrating features like engagement tools, connection capabilities, and data storage, the platform fosters a vibrant community where collaboration and innovation thrive.

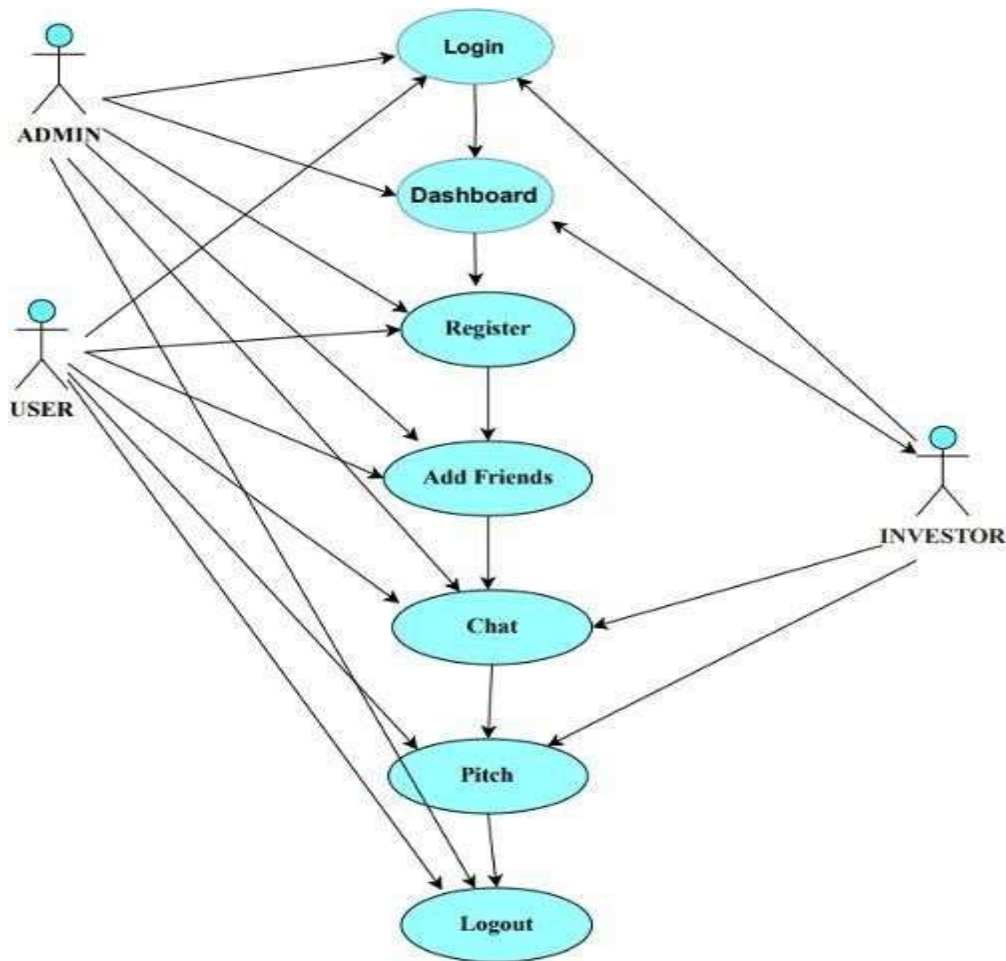


Figure 4.2 USE-CASE DIAGRAM

## Actors

- i. **Admin:** Responsible for overseeing the system and ensuring smooth operation. o Manages user accounts, system configurations, and security measures. The **Admin** serves a critical governance role, managing user registrations and overseeing activities on the platform. They have the ability to log into the system and access a dashboard that allows them to monitor user interactions, manage content, and facilitate a safe and effective environment for all users. Their oversight ensures that the platform operates smoothly, addressing any issues that arise, and maintaining compliance with regulations
- ii. **User:** Represents entrepreneurs, members, or participants who register, interact, and utilize the platform's services. The **User** is the primary participant who interacts with the platform to engage with other users. They go through a registration process to create an account and subsequently log in to access various functionalities like adding friends, chatting, and pitching ideas or projects. Users are central to the platform's community, driving engagement and collaboration through their interactions.
- iii. **Investor:** Represents individuals or entities interested in evaluating pitches and potentially investing in

business ideas. The **Investor** plays a vital role by potentially evaluating pitches presented by users seeking funding or support. While their interaction seems limited to receiving pitches and possibly communicating with users, their presence is crucial for facilitating financial opportunities, thus fostering a vibrant ecosystem for innovation and entrepreneurship. This dynamic interplay between these three actors underscores the collaborative nature of the platform, where each role is essential for overall functionality and growth.

## 4.5 Use Cases

**i. Login:** The login process for an online interactive entrepreneur club allows members to access a wide range of resources, tools, and community features designed to support their entrepreneurial journey. Upon logging in, users are directed to a personalized dashboard, where they can view upcoming events, access exclusive content, and engage with tailored recommendations based on their interests. Secure login with multi-factor authentication ensures that sensitive information remains protected. Members can participate in networking opportunities, join forums, attend virtual meetups, and connect with peers who share similar business goals. The platform also provides access to valuable resources like business templates, guides, and market research reports, helping entrepreneurs gain valuable insights and make informed decisions. Additionally, users can track their progress through courses, workshops, and challenges, ensuring they stay on track with their entrepreneurial goals. By logging in, members gain seamless access to all these features, creating an engaging and supportive environment to foster growth and collaboration

**ii. Dashboard:** The dashboard serves as the central hub for members of the online entrepreneur club, offering a personalized and intuitive experience. Upon logging in, users are greeted with a clean and organized layout that displays upcoming events, recommended content, and their recent activity. It provides quick access to various tools, including progress tracking for courses, business templates, and networking opportunities. Members can customize their view based on their specific interests, ensuring they stay updated with relevant resources and connections. The dashboard is designed to streamline navigation, making it easy for entrepreneurs to manage their interactions, track growth, and explore new opportunities in one place.

**iii. Register:** The registration process for the online entrepreneur club allows new members to create an account quickly and easily. Users can sign up using their email, social media, or phone number, ensuring a seamless onboarding experience. During registration, members are prompted to fill out essential details such as their business interests, goals, and industry focus. Once registered, users gain immediate access to the club's resources, networking features, and interactive content. The registration process ensures that each member's profile is set up efficiently, allowing them to start exploring the club's offerings right away.

**iv. Add friends:** Adding friends in the online entrepreneur club allows members to build valuable connections within the community. Users can search for friends by name, business interests, or shared goals, making it easy to find like-minded peers. Once a connection is made, members can interact through direct messages, participate in group discussions together, and share ideas or experiences. Building a network of friends on the platform fosters collaboration and provides support for entrepreneurial growth.

**v. Chat:** The chat feature in the online entrepreneur club allows members to communicate in real-time through one-on-one or group conversations. Whether discussing business ideas, seeking advice, or sharing resources, the chat tool provides a convenient way to connect and collaborate with peers. It fosters active engagement, enabling members to exchange insights and build strong relationships within the community.

**vi. Logout:** The logout option in the online entrepreneur club allows members to securely end their session and protect their account. With a simple click, users are safely signed out, preventing unauthorized access. It ensures that personal information and activities remain secure when moving away from the platform.

## 4.6 Relationships and Interactions

- Admin:
  - Has access to all functionalities to manage the platform, including monitoring interactions (e.g., chat and pitches) and managing users.
- User:
  - Can register, log in, access the dashboard, add friends, chat with other users, pitch their business ideas, and log out.
  - Builds relationships with other users and investors through the "Add Friends" and "Chat" functionalities.
- Investor:
  - Can log in, view pitches, evaluate ideas, and communicate with users Has access to limited features compared to admins and users.

## CHAPTER-5

### OBJECTIVES

#### 5.1 Objectives:

**Objective 1:** Create a web-based platform that enables real-time interactions, featuring secure user authentication and profile management. This objective focuses on developing a web-based platform designed to foster immediate and seamless communication among users. The core of the platform is to provide real-time interaction, allowing users to collaborate, share ideas, and engage with one another in a dynamic and instantaneous manner. To ensure a safe and trustworthy environment, secure user authentication is implemented, requiring users to verify their identity before accessing the platform. This may include multi-factor authentication (MFA) and other encryption techniques to protect user credentials. Additionally, robust profile management allows users to create, update, and personalize their accounts with features like profile customization, privacy settings, and connection controls. By integrating these components, the platform ensures user safety, privacy, and an interactive experience that encourages active participation and collaboration.

**Objective 2:** Develop a forum and chat system to support both asynchronous and real-time communication among users. This focuses on creating a versatile forum and chat system that caters to different communication needs within the platform. The system will feature both **asynchronous** communication, allowing users to post and reply to messages at their convenience, and **real-time** communication for immediate discussions and live interactions. The forum will offer organized discussion threads where users can share knowledge, ask questions, and engage in meaningful conversations. Meanwhile, the chat system will provide direct messaging and group chat options, enabling instant communication between users or within specific communities. To enhance usability, both systems will include **moderation tools** to manage content, **search functionality** for easy navigation, and **notification features** to keep users informed of updates. This dual-mode communication approach ensures flexibility, catering to both thoughtful, reflective conversations and quick, immediate exchanges.

**Objective 3:** Design the platform to be scalable, ensuring it can efficiently accommodate a growing number of users. The goal is to create a web-based platform that is built with scalability in mind, allowing it to handle an increasing number of users without compromising performance or user experience. Scalable design involves using technologies and architecture that can grow seamlessly as the platform expands. This includes leveraging **cloud-based hosting solutions** (like AWS, Azure, or Google Cloud), which provide flexibility to scale up or down based on

demand. The platform should implement **load balancing** to distribute user traffic across multiple servers, **auto-scaling** to adjust resources dynamically, and **caching mechanisms** to reduce server load during peak times. Additionally, the backend should be designed with **modular architecture**, enabling components to be easily added, updated, or replaced without disrupting the entire system. By focusing on scalability from the start, the platform ensures it remains performant, stable, and responsive as its user base continues to grow.

**Objective 4:** Integrate advanced security features to safeguard user data and prevent unauthorized access. Key components of this objective include **data encryption** to secure information both in transit and at rest, **multi-factor authentication (MFA)** for strong user verification, and **secure APIs** to ensure safe communication between systems. Regular **vulnerability assessments** and **penetration testing** help identify potential weaknesses, while **firewalls** and **intrusion detection systems** monitor and block malicious activity. Additionally, **access control mechanisms** such as **role-based access** ensure that only authorized users can access specific resources. Compliance with security standards like **GDPR** or **CCPA** further ensures that the platform follows legal data protection guidelines. By integrating these advanced security features, the platform can build trust among users, safeguard their personal data, and protect against attacks.

## 5.2 Platform Development

- i. **Develop a Web-Based Platform:** The goal is to create a secure, user-friendly web-based platform that facilitates seamless interaction among users. This platform will integrate features such as real-time interactions, which allow users to communicate and collaborate instantly, and user authentication, ensuring that only authorized individuals can access the platform.
- ii. **Enable Communication:** A central objective is to foster communication and collaboration through the platform. This will be achieved by building a forum and chat system that allows for both real-time and asynchronous communication. The forum will provide a space for users to engage in in-depth discussions, ask questions, share ideas, and collaborate on projects. Meanwhile, the chat system will offer a more immediate, real-time communication channel, allowing users to interact quickly when needed. Asynchronous features, like message threads, will allow users to participate at their own pace.
- iii. **Scalability Focus:** As the platform is expected to grow and attract more users over time, scalability is a critical consideration. The platform will be designed to accommodate increasing user traffic and data volume without sacrificing performance. This will involve selecting scalable infrastructure and optimizing the system's architecture to ensure fast load times, responsiveness, and stability even as the number of users and interactions

- iv. **Ensure Security:** Given the importance of user data and the trust users place in the platform, security will be a top priority. The platform will integrate advanced security mechanisms such as data encryption to protect sensitive information during transmission and storage. Multi-factor authentication (MFA) will be used to ensure that only authorized users can access their accounts, adding an extra layer of security. Regular security audits and vulnerability assessments will be conducted to identify and resolve any potential threats or weaknesses. By implementing these robust security measures, the platform will protect user data, maintain privacy, and build trust among users.



# **CHAPTER-6**

## **SYSTEM DESIGN & IMPLEMENTATION**

### **I. System Design**

#### **i. Goals and Objectives**

- Engage Entrepreneurs: Facilitate networking, discussions, and collaboration.
- Knowledge Sharing: Enable members to share articles, host webinars, and participate in forums.
- Skill Development: Provide resources, mentorship programs, and interactive sessions.
- Event Management: Organize virtual events, competitions, and workshops.

#### **ii. Key Functionalities**

##### **1. User Management:**

- Role-based access (Admin, Moderator, Member, Guest).
- User profiles (skills, experience, interests, portfolio).

##### **2. Interactive Features:**

- Discussion forums.
- Real-time chat and video conferencing.
- Polls and surveys.

##### **3. Content Management:**

- Blog/article publishing.
- Resource repository (eBooks, guides, templates).
- Multimedia sharing (videos, presentations).

##### **4. Event Management:**

- Event calendar.
- Ticketing and RSVP system.
- Post-event recordings and summaries.

##### **5. Mentorship Programs:**

- Mentor-mentee matching.
- Progress tracking.

## 6. Analytics and Insights:

- Engagement statistics.
- Personalized content recommendations.

### iii. System Architecture

- Frontend:
  - Technologies: React, Angular, or Vue.js.
  - RESTful APIs or GraphQL for communication.
- Database:
  - Relational: PostgreSQL or MySQL for structured data.
  - Non-relational: MongoDB for dynamic and unstructured data.
- Real-Time Features:
  - WebSockets for chat and live interactions.
  - Tools like Firebase or Pusher.
- Cloud Infrastructure:
  - AWS, Google Cloud, or Azure for scalability.
  - Content Delivery Network (CDN) for faster load times.

### iv. Security Considerations

- Authentication & Authorization:
  - Hashing
  - Two-factor authentication.
- Data Privacy:
  - GDPR and CCPA compliance.
  - Encryption for data in transit and at rest.

## **II. Implementation**

### **i. Development Phases**

#### **1. Requirement Gathering:**

- Conduct surveys or interviews to understand the needs of the target audience.

#### **2. Prototyping:**

- Develop wireframes and mockups using tools like Figma or Adobe XD.

#### **3. MVP Development:**

- Focus on core functionalities (user management, forums, and events).
- Iterative feedback from a small user group.

#### **4. Full-Scale Development:**

- Add advanced features (mentorship programs, analytics).
- Integrate third-party APIs (payment gateways, email services).

#### **5. Testing:**

- Perform unit, integration, and system testing.
- User acceptance testing (UAT) with diverse user groups.

### **ii. Deployment**

#### **1. Platform Development:**

Developed the authentication module for secure registration and login process. Generated interactive dashboards for personalized usage. Created a real-time chat feature utilizing WebSocket technology. Implemented threaded forums for improved discussion organization. Content-sharing module that supports varied file formats.

### **iii. Feedback:**

Design is very intuitive and interactive. Suggested giving more options for customizing the profile.

### **iv. Maintenance:**

Scheduled updates were made for added features and the user's wishes. New Relic usage for performance tracking.

### **v. Future Improvements:**

AI-based learning paths for entrepreneurs. Gamification to encourage active participation and community engagement. Multi-lingua feasibility to reach the global market Expansion Strategy.

## CHAPTER-7

### TIMELINE FOR EXECUTION OF PROJECT (GANTT CHART)



**Week 1-2: Research and initial web design.**

**Week 3-4: Develop user registration and profile management systems.**

**Week 5-6: Implement chatroom and forum functionality.**

**Week 7-8: Testing, debugging, and optimization for scalability and security.**

## CHAPTER-8

### OUTCOMES

#### 8.1 E-Commerce Innovations and Digital Transformation:

##### I. "Artificial Intelligence in E-Commerce: A Bibliometric Study and Literature Review"

This paper synthesizes the research of AI in e-commerce with guidelines to indicate how information systems research can contribute to this area. It provides a bibliometric analysis, examining key trends, authors, institutions, and publication patterns in AI research related to e-commerce. The review highlights the impact of AI on various e-commerce operations, including personalized recommendations, customer experience, supply chain management, and predictive analytics. It also addresses the challenges, such as data privacy and algorithm biases, and discusses future research directions. Overall, the paper offers valuable insights for researchers, businesses, and policymakers interested in leveraging AI to drive innovation in the e-commerce space.

**SpringerLink**

##### II. "Big Data Analytics and Innovation in E-Commerce: Current Insights and Future Directions"

This study is a systematic review of big data analytics and innovation in e-commerce, based on 541 documents from the Scopus database. It explores the use of large datasets to gain valuable insights, improve customer experiences, optimize operations, and drive innovation. The study highlights applications such as personalized marketing, demand forecasting, inventory management, and fraud detection. The paper provides current insights into successful data-driven strategies and outlines future directions, including the integration of artificial intelligence, real-time data processing, and predictive analytics to enhance e-commerce competitiveness.

**SpringerLink**

##### III. "E-commerce Website: Systematic Literature Review"

This review based on how designs of the e-commerce website could impact the user's trust during making an e-commerce platform. It reviews studies on user experience, website design, functionality, performance, and conversion optimization. The review highlights best practices for creating engaging e-commerce platforms, including strategies for improving navigation, enhancing product presentation, optimizing search functionality, and streamlining the checkout process. Additionally, the impact of emerging technologies like artificial intelligence and big data on e-commerce website performance is explored. This review offers valuable insights for researchers, designers, and practitioners aiming to improve or develop effective online shopping experiences.

IV. "Customer data sharing platform; a blockchain shopping cart"

From this work, the author proposed a kind of blockchain-technology-based system that connects any customer directly with sellers while having the control regarding their privacy still intact. It highlights how blockchain can enable users to have greater control over their personal information, while ensuring data privacy and preventing unauthorized access. By integrating blockchain into shopping carts, customers can selectively share their data with e-commerce platforms, brands, and third-party services, while maintaining full transparency and traceability. The platform ensures that sensitive information is stored securely on a decentralized ledger, reducing the risk of data breaches. Additionally, it discusses the potential benefits for both customers and businesses, such as enhanced trust, personalized experiences, and improved data governance.

V. "E-commerce and digital transformation. Trends, Challenges, and implications"

The following paper tries to explore the relation of e-commerce to digital transformation, revealing how trends and challenges change over time. It identifies key trends such as the rise of mobile commerce, the integration of artificial intelligence, and the adoption of blockchain technology, all of which are driving innovation in online shopping experiences. The paper also addresses the challenges businesses face, including the need for seamless digital infrastructure, cybersecurity risks, and the increasing demand for personalized customer interactions. Additionally, it examines the implications of digital transformation on traditional retail models, highlighting the shift towards omnichannel strategies and the importance of adapting to changing consumer behaviors. This review serves as a guide for businesses looking to navigate the evolving digital landscape and leverage technology to stay competitive in the e-commerce space.

## **8.2 Open-Source E-commerce Platforms:**

### **i. nopCommerce**

Open source e-commerce platform with ASP.NET Core. All source code is fully customizable. **nopCommerce** can be a powerful choice for building an online interactive entrepreneur club. It is an open-source e-commerce platform that offers extensive customization options, making it suitable for creating interactive and community-driven spaces. With nopCommerce, members can easily register, create profiles, engage in discussions, and participate in events, fostering collaboration among entrepreneurs. Its built-in features like forums, messaging, and

product reviews can enhance user interaction and community engagement. Additionally, nopCommerce supports various integrations, such as social login, payment gateways, and analytics tools, helping entrepreneurs manage their club activities efficiently. Its scalability and flexibility make it an ideal choice for creating a robust online platform that supports networking, learning, and business development.

## ii. **Magento Open Source**

Open-source e-commerce platform; one of the very popular ones available with an excellent feature set. Public development coordination takes place on GitHub. **Magento Open Source** is a widely used open-source e-commerce platform known for its flexibility and powerful feature set. It provides a robust foundation for building customizable online stores, making it ideal for businesses of all sizes. Magento's flexibility allows users to create unique shopping experiences by tailoring the platform to fit specific business needs. It offers advanced features such as multi-store management, SEO optimization, payment gateway integration, and mobile responsiveness. Additionally, Magento's active community and extensive marketplace provide access to a wide range of plugins and extensions, making it easier to enhance functionality and improve customer engagement. Its scalability and open-source nature make it a popular choice for entrepreneurs looking to launch and grow their online businesses.

## iii. **OpenCart**

PHP-based online store management system with multilingualism and multicurrency functionality. The source code is available at GitHub. **OpenCart** is a lightweight and user-friendly PHP-based e-commerce platform designed for small to medium-sized online stores. It offers multilingual and multicurrency support, making it ideal for businesses operating in diverse markets. Its extensive library of extensions available on GitHub enables users to customize and enhance the platform according to their specific needs, making it a flexible choice for entrepreneurs looking to build a scalable online store.

## iv. **osCommerce**

Free e-commerce software under the GNU General Public License. The source code is available on GitHub. **osCommerce** is one of the earliest open-source e-commerce platforms, designed to help businesses set up and manage online stores. It provides a flexible and customizable framework with a wide range of built-in features, such as catalog management, order processing, and customer support, making it a popular choice for small to medium-sized businesses.

## 8.3 Improved Entrepreneurial Ecosystem

**Global Connectivity:** It will connect the entrepreneur with mentors, investors, and peers from across the world in order to create a global entrepreneurial network.

**Knowledge Sharing:** It will have a library of resources, including tutorials, case studies, and articles by experts for a lifetime of learning.

**Community Building:** Surround yourself with an ecosystem of support, network, collaborate, and grow together with other entrepreneurs.

## Technological Advancements

**Intuitive Platform:** Intuitive design and seamless navigation ensure ease of use for all users. **Scalability:** The architecture of the platform will be able to handle increased user demand and integrate new features.

**Real-Time Collaboration:** Advanced tools for live communication and collaboration will further enhance user engagement.

## 8.4 Performance Metrics

The success of the platform will be measured by quantifiable outcomes, including:

**User Engagement:** Active users and time spent on the platform.

**Funding Success Rate:** Percentage of entrepreneurs that secure funding through the platform. **Mentorship**

**Effectiveness:** Positive feedback and tangible outcomes from mentorship programs.

**Collaboration Metrics:** Number of successful partnerships and joint projects initiated.



## **CHAPTER-9**

### **RESULTS AND DISCUSSIONS**

#### **I. Results:**

##### **i. Platform Functionality**

- User Engagement:
  - Seamless onboarding process with features like profile customization and skill tags.
  - High user retention due to engaging features like forums, real-time chat, and gamification elements.
- Content Management:
  - Efficient publishing and sharing of articles, videos, and resources.
  - User-generated content added significant value and diversity to the platform.
- Event Management:
  - Successful hosting of virtual events, webinars, and competitions.
  - Features like RSVP, live Q&A, and post-event recordings increased participation rates.
- Mentorship Program:
  - Effective matching of mentors and mentees based on skills and goals.
  - Positive feedback from participants regarding the structured progress tracking.
- Analytics and Insights:
  - Real-time analytics provided insights into user behavior, popular content, and event metrics.
  - Personalized recommendations enhanced user satisfaction.

##### **ii. Technical Performance**

- System Stability:
  - High uptime and low latency during peak usage due to cloud-based infrastructure.
  - Efficient load handling during live events.

- Scalability:
  - Modular architecture facilitated the addition of new features, such as a feedback system.
  - Reusable components reduced development time for future updates.
- Security:
  - Successful implementation of two-factor authentication and GDPR compliance.
- Secure handling of sensitive user data, including payment and personal Networking Opportunities:
  - Entrepreneurs reported improved connections and collaborative opportunities.
  - Discussion forums fostered a sense of community and shared learning.
- Skill Development:
  - Users accessed valuable resources and participated in skill-building workshops.
  - Mentorship programs accelerated the learning curve for early-stage entrepreneurs.

## **II. Discussions**

### **i. Key Success Factors**

- User-Centric Design:
  - A focus on usability and accessibility attracted diverse user groups.
  - Mobile-first design ensured wider reach across devices.
- Engaging Features:
  - Real-time interaction tools, such as live chat and discussion boards, enhanced user engagement.
  - Gamified elements (e.g., leaderboards, badges) incentivized participation.
- Scalable Architecture:
  - The modular and reusable component-based approach allowed efficient scaling and adaptability.

### **ii. Challenges Faced**

#### **1. User Adoption:**

- Initial resistance from less tech-savvy users.
- Solution: Hosted tutorials and offered a simplified user interface.

## 2. Content Moderation:

- Monitoring and moderating user-generated content posed challenges.
- Solution: Integrated AI-based moderation tools and employed human moderators.

## 3. Technical Bottlenecks:

- Occasional issues with live streaming during events.
- Solution: Optimized server configurations and adopted a content delivery network (CDN).

## 4. Security Concerns:

- Ensuring data privacy and handling breaches.
- Solution: Regular security audits and advanced encryption methods.
- Agile methodology ensured continuous improvements based on user feedback.
- Importance of Analytics:
  - Leveraging data analytics helped understand user needs and optimize features.
- Collaboration is Key:
  - Partnerships with established entrepreneur networks increased credibility and adoption.

### iii. Future Scope

- Advanced AI Integration:
  - Personalized learning paths and AI-driven networking suggestions.
- Expanded Mentorship:
  - Scaling mentorship programs by incorporating global mentors.
- Mobile App Enhancement:
  - Offline access to resources and push notifications for events.
- Global Reach:
  - Multilingual support and partnerships with international organizations.

## **CHAPTER-10**

### **CONCLUSION**

Online interactive entrepreneur clubs provide a valuable platform for entrepreneurs to connect, collaborate, and access resources such as mentorship and expert advice. These clubs break down geographical barriers, allowing for global networking and knowledge sharing. The flexibility of online participation helps busy entrepreneurs engage at their convenience while benefiting from real-time discussions and problem-solving. As these communities grow, they will continue to play a crucial role in entrepreneurial success, provided they maintain high-quality content, active engagement, and adaptability to member needs.

The conclusion of an online interactive club project emphasizes the transformative potential of digital platforms in fostering community engagement and collaboration. By connecting people across diverse geographical and cultural boundaries, the online club created a dynamic space for participants to share ideas, develop new skills, and engage in discussions on common interests.

This project has demonstrated the effectiveness of technology in building meaningful connections and enhancing learning experiences through interactive features like real-time chats, forums, and virtual events.

The project's success highlights the value of accessibility and inclusivity, as members from different time zones and backgrounds were able to participate without the constraints of traditional, location-based clubs. The interactive format allowed for greater flexibility, fostering a sense of belonging and participation that transcended physical boundaries.

In conclusion, the online interactive club project serves as a model for future virtual communities, proving that with the right tools and engagement strategies, digital platforms can be just as effective—if not more so—than traditional in-person clubs. This initiative not only strengthened individual skills and knowledge but also reinforced the power of collaboration, creating a vibrant, supportive community that will continue to thrive beyond the project's timeline.

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## APPENDIX-A

### PSUEDOCODE

#### Front End Code

##### - Login Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login - Investment Platform</title>
  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css" rel="stylesheet">
  <style>
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, sans-
serif;
    }

    body {
      background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
      min-height: 94vh;
      display: flex;
      flex-direction: column;
    }
```

```

.top-section      {
  padding: 2rem;
  color: white;
  text-align: center;
  flex: 1;
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
}

.logo {
  font-size: 3rem; margin-
  bottom: 1rem;
}

.title {
  font-size: 2rem;
  margin-bottom: 0.5rem;
}

.subtitle {
  font-size: 1.1rem;
  opacity: 0.9;
}

.bottom-sheet    {
  background: white;
  border-radius: 24px 24px 0 0; padding:
  2rem;
  position: relative;
  box-shadow: 0 -4px 20px rgba(0, 0, 0, 0.1);
}

```

```
.tab-container {
  display: flex;
  margin-bottom: 2rem;
  position: relative; border-
radius: 12px;
  background: #f5f5f5;
  padding: 0.3rem;
}
```

```
.tab-btn {
  flex: 1;
  padding: 0.8rem;
  border: none; border-
radius: 10px; font-size:
0.9rem; font-weight:
600;
  color: #666; background:
none; cursor: pointer;
  transition: all 0.3s ease;
}
```

```
.tab-btn.active {
  background: white;
  color: #764ba2;
  box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
}
```

```
.input-group { position:
relative;
margin-bottom: 1.5rem;
}
```

```
.input-group i {
```



```
position: absolute;
left: 1rem;
top: 1rem;
color: #666;
}
```

```
.input-group input {
width: 100%;
padding: 1rem 1rem 1rem 3rem; border:
1px solid #ddd;
border-radius: 12px; font-
size: 1rem; transition: all
0.3s ease;
}
```

```
.input-group input:focus {
border-color: #764ba2;
box-shadow: 0 0 0 2px rgba(118, 75, 162, 0.1); outline:
none;
}
```

```
.login-btn { width:
100%; padding:
1rem; border:
none;
border-radius: 12px;
background: #764ba2;
color: white;
font-size: 1rem;
font-weight: 600;
cursor: pointer;
transition: all 0.3s ease;
```

```
}
```

```
.login-btn:hover {  
  background: #663c8f;  
}
```

```
.signup-link {  
  text-align: center;  
  margin-top: 1.5rem;  
  color: #666;  
}
```

```
.signup-link a {  
  color: #764ba2;  
  text-decoration: none;  
  font-weight: 600;  
}
```

```
.error-message {  
  background: #fee2e2;  
  color: #dc2626; padding:  
  1rem; border-radius:  
  12px; margin-bottom:  
  1rem; display: none;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="top-section">
```

```
<div class="logo">
```

```
<i class="fas fa-handshake"></i>
```

```
</div>
```

```
<h1 class="title">Welcome Back</h1>
```

```
<p class="subtitle">Login to connect with investors and startups</p>
</div>
```

```
<div class="bottom-sheet">
  <div class="tab-container">
    <button class="tab-btn active" data-type="investor">
      <i class="fas fa-chart-line"></i> Investor
    </button>
    <button class="tab-btn" data-type="entrepreneur">
      <i class="fas fa-lightbulb"></i> Entrepreneur
    </button>
  </div>
```

```
<div class="error-message" id="errorMessage"> Invalid
  username or password
</div>
```

```
<form id="loginForm" action="auth.php" method="POST">
  <input type="hidden" name="userType" id="userType" value="investor">
```

```
<div class="input-group">
  <i class="fas fa-user"></i>
  <input type="text" name="username" placeholder="Username" required>
</div>
```

```
<div class="input-group">
  <i class="fas fa-lock"></i>
  <input type="password" name="password" placeholder="Password" required>
</div>
```

```
<button type="submit" class="login-btn">
<i class="fas fa-sign-in-alt"></i> Login
```

```

</button>

<div class="signup-link">
    New to platform? <a href="signup.php">Create Account</a>
</div>
</form>
</div>

<script>
document.addEventListener('DOMContentLoaded', function() {
    const tabBtns = document.querySelectorAll('.tab-btn');
    const userTypeInput = document.getElementById('userType');
    const urlParams = new URLSearchParams(window.location.search);

    if (urlParams.get('error')) {
        document.getElementById('errorMessage').style.display = 'block';
    }

    tabBtns.forEach(btn => { btn.addEventListener('click',
        function() {
            tabBtns.forEach(b => b.classList.remove('active'));
            this.classList.add('active');
            userTypeInput.value = this.dataset.type;
        });
    });
});
</script>
</body>
</html>

```

## - Investor Dashboard

```
// Fetch logged-in user details for sidebar
$user_id = $_SESSION['user_id'];
$user_sql = "SELECT username, email, fullname, profile_image FROM users WHERE id = ?";
$stmt = $conn->prepare($user_sql);
$stmt->bind_param("i", $user_id);
$stmt->execute();
$user_result = $stmt->get_result();
$user_data = $user_result->fetch_assoc();

// Fetch startup listings with entrepreneur details
$sql = "SELECT s.*,
            u.fullname    as    entrepreneur_name,
            u.email       as    entrepreneur_email,
            u.profile_image,
            u.bio as entrepreneur_bio FROM
startups s
INNER JOIN users u ON s.entrepreneur_id = u.id
WHERE u.user_type = 'entrepreneur'
ORDER BY s.created_at DESC";
$result = $conn->query($sql);

// Close the prepared statement
$stmt->close();
?>

<!DOCTYPE html>
```

```

<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Investor Dashboard - Find Startups</title>
  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css" rel="stylesheet">
  <style>
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, sans-serif;
    }

    body {
      background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
      min-height: 100vh;
      padding: 0px;
    }

    .action-btn { flex: 1;
      padding: 12px;
      border: none;
      border-radius: 8px;
      font-weight: 500; cursor:
      pointer; transition: all 0.3s
      ease; display: flex;
      align-items: center;

```

```
    justify-content: center;
    gap: 8px;
}
```

```
.contact-btn { background:
    #764ba2; color: white;
}
```

```
.contact-btn:hover {
    background: #663c8f;
}
```

```
.details-btn { background:
    #f8f9fa; color: #333;
}
```

```
.details-btn:hover {
    background: #e9ecef;
}
```

```
@media (max-width: 768px) {
    .startup-grid {
        grid-template-columns: 1fr;
    }
}
```

```
.filters-row {
    flex-direction: column;
}
```

```
.filter-select {
    width: 100%;
}
```

```

    }
</style>
</head>
<body>
<!-- Add this before closing body tag -->
<script>
document.addEventListener('DOMContentLoaded', function() {
  const searchInput = document.getElementById('searchInput');
  const stageFilter = document.getElementById('stageFilter'); const
  sortBy = document.getElementById('sortBy');
  const startupCards = document.querySelectorAll('.startup-card');

  // Initialize current filters

  let currentFilters = {
    search: "",
    stage: "", sort:
    'newest'
  };

  // Debounce function to limit rapid firing of search function
  debounce(func, wait) {
    let timeout;
    return function executedFunction(...args) { const
      later = () => {
        clearTimeout(timeout); func(...args);
      };
      clearTimeout(timeout);
      timeout = setTimeout(later, wait);
    };
  }

  // Function to filter startups

```



```

function filterStartups() {
  startupCards.forEach(card => {
    const startupName = card.querySelector('.startup-name').textContent.toLowerCase(); const
    description = card.querySelector('.startup-description').textContent.toLowerCase(); const
    stage = card.querySelector('.funding-stage').textContent.toLowerCase();
    const categories = Array.from(card.querySelectorAll('.category-tag'))
      .map(tag => tag.textContent.toLowerCase());

    // Search filter
    const searchMatch = currentFilters.search === " ||
      startupName.includes(currentFilters.search) ||
      description.includes(currentFilters.search) ||
      categories.some(cat => cat.includes(currentFilters.search));

    // Stage filter
    const stageMatch = currentFilters.stage === " || stage
      === currentFilters.stage.toLowerCase();

    // Show/hide based on filters
    card.style.display = (searchMatch && stageMatch) ? 'block' : 'none';
  });

  // Sort visible cards
  sortStartups();
}

// Function to sort startups
function sortStartups() {
  const startupGrid = document.querySelector('.startup-grid'); const
  visibleCards = Array.from(startupCards).filter(card =>
    card.style.display !== 'none'
  );

```

```

visibleCards.sort((a, b) => {
  switch(currentFilters.sort) {
    case 'raised':
      const raisedA = parseFloat(a.querySelector('.amount-value').textContent.replace(/[₹,]/g, ""));
      const raisedB = parseFloat(b.querySelector('.amount-value').textContent.replace(/[₹,]/g, ""));
      return raisedB - raisedA;

    case 'target':
      const targetA = parseFloat(a.querySelectorAll('.amount-value')[1].textContent.replace(/[₹,]/g, ""));
      const targetB = parseFloat(b.querySelectorAll('.amount-value')[1].textContent.replace(/[₹,]/g, ""));
      return targetB - targetA;
  }
});

case 'newest':
default:
  return 0; // Maintain original order
  // Reappend sorted cards
  visibleCards.forEach(card => startupGrid.appendChild(card));

  // Show no results message if needed
  const noResults = document.querySelector('.no-results'); if
  (visibleCards.length === 0) {
    if (!noResults) {
      const message = document.createElement('div');
      message.className = 'no-results';
      message.innerHTML = `
<div style="grid-column: 1 / -1; text-align: center; color: white; padding: 40px;">
  <i class="fas fa-search" style="font-size: 3rem; margin-bottom: 20px;"></i>
  <h2>No Startups Found</h2>
  <p>Try adjusting your search criteria</p>
</div>

```

```

        `; startupGrid.appendChild(message);
    }
} else if (noResults) {
    noResults.remove();
}
}

// Attach event listeners with debounce for search
searchInput.addEventListener('input', debounce(function(e) {
    currentFilters.search = e.target.value.toLowerCase();
    filterStartups();
}, 300));

stageFilter.addEventListener('change', function(e) {
    currentFilters.stage = e.target.value;
    filterStartups();
});

sortBy.addEventListener('change', function(e) {
    currentFilters.sort = e.target.value; filterStartups();
});
});
</script>
<div class="header">
    <div class="welcome-text">
        Welcome, <?php echo htmlspecialchars($_SESSION['username']); ?>
    </div>
    <div class="header-actions">
        <button class="logout-btn" onclick="window.location.href='logout.php'">
            <i class="fas fa-sign-out-alt"></i>
            Logout
        </button>
    </div>

```

```

    </div>
</div>

<div class="main-content">
<?php include 'sidebar.php'; ?>
    <div class="filters-bar">
        <div class="filters-row">
            <div class="search-box">
                <i class="fas fa-search"></i>
                <input type="text" class="search-input" id="searchInput" placeholder="Search
                    by startup name, description, or category...">
            </div>
            <select class="filter-select" id="stageFilter" style="display: none;" >
                <option value="">All Stages</option>
                <option value="Pre-seed">Pre-seed</option>
                <option value="Seed">Seed</option>
                <option value="Series A">Series A</option>
                <option value="Series B">Series B</option>
                <option value="Series C">Series C</option>
            </select>
            <select class="filter-select" id="sortBy">
                <option value="newest">Newest First</option>
                <option value="raised">Most Raised</option>
                <option value="target">Highest Target</option>
            </select>
        </div>
    </div>

    <div class="startup-grid">
        <?php
        if ($result && $result->num_rows > 0) {
            while($row = $result->fetch_assoc()) {

```

```
$progress = $row['target_amount'] > 0 ? min(($row['raised_amount'] / $row['target_amount'] * 100),  
100) : 0;
```

```
$categories = explode(',', $row['categories']);
```

```
?>
```

```
<div class="startup-card">
```

```
    <div class="entrepreneur-info">
```

```
        <div class="entrepreneur-avatar">
```

```
            <?php if ($row['profile_image']): ?>
```

```
                ">
```

```
            <?php else: ?>
```

```
                <i class="fas fa-user"></i>
```

```
            <?php endif; ?>
```

```
        </div>
```

```
    <div class="entrepreneur-details">
```

```
        <div class="entrepreneur-name">
```

```
            <?php echo htmlspecialchars($row['entrepreneur_name']); ?>
```

```
        </div>
```

```
        <div class="entrepreneur-email">
```

```
            <?php echo htmlspecialchars($row['entrepreneur_email']); ?>
```

```
        </div>
```

```
    </div>
```

```
</div>
```

```
<div class="startup-header">
```

```
<h2 class="startup-name">
```

```
    <?php echo htmlspecialchars($row['company_name']); ?>
```

```
</h2>
```

```
<span class="funding-stage">
```

```
    <?php echo htmlspecialchars($row['funding_stage']); ?>
```

```
</span>
```

```
</div>
```

```
<p class="startup-description">
    <?php echo htmlspecialchars($row['short_description']); ?>
</p>
```

```
<div class="categories">
    <?php foreach($categories as $category): ?>
        <span class="category-tag">
            <?php echo htmlspecialchars(trim($category)); ?>
        </span>
    <?php endforeach; ?>
</div>
```

```
<div class="funding-progress">
<div class="progress-bar">
<div class="progress" style="width: <?php echo $progress; ?>%"></div>
</div>
```

```
<div class="funding-details">
```

```
<div class="amount-box">
```

```
    <div class="amount-label">Raised</div>
```

```
    <div class="amount-value">
```

```
        ₹<?php echo number_format($row['raised_amount']); ?>
```

```
    </div>
```

```
</div>
```

```
<div class="amount-box">
```

```
    <div class="amount-label">Target</div>
```

```
    <div class="amount-value">
```

```
        ₹<?php echo number_format($row['target_amount']); ?>
```

```
    </div>
```

```
</div>
```

```
<div class="amount-box">
```

```
    <div class="amount-label">Progress</div>
```

```

        <div class="amount-value">
            <?php echo number_format($progress, 1); ?>%
        </div>
    </div>
</div>
</div>
</div>

<div class="card-actions">
    <button class="action-btn contact-btn"
        onclick="contactEntrepreneur(<?php echo $row['entrepreneur_id']; ?>, <?php echo $row['id']; ?>)">
        <i class="fas fa-envelope"></i> Contact
    </button>

    <button class="action-btn details-btn" onclick="viewStartup(<?php echo $row['id']; ?>)">
        <i class="fas fa-info-circle"></i>
        Details
    </button>
</div>
</div>
</div>
<?php
}
} else {
?>
<div style="grid-column: 1 / -1; text-align: center; color: white; padding: 40px;">
    <i class="fas fa-search" style="font-size: 3rem; margin-bottom: 20px;"></i>
    <h2>No Startups Found</h2>
    <p>Check back later for new startup listings!</p>
</div>
<?php
}
?>
</div>

```

```

</div>
<!-- Startup Details Modal -->
<div id="startupModal" class="modal">
  <div class="modal-content">
    <div class="modal-header">
      <button class="close-modal" onclick="closeModal()">
        <i class="fas fa-arrow-left"></i>
      </button>
      <h2 id="modalStartupName"></h2>
    </div>
    <div class="modal-body" id="modalContent">
      <!-- Content will be loaded here -->
    </div>
  </div>
</div>
</div>

```

```

<script>
// Global variables for touch handling and modal state let
startY = 0;
let currentY = 0;
let isDragging = false; let
modalContent = null; let
modal = null;

// Function to handle startup saving
function saveStartup(startupId) {
  fetch('handle-startup-save.php', {
    method: 'POST',
    headers: {
      'Content-Type': 'application/x-www-form-urlencoded',
    },
    body: `startup_id=${startupId}`
  })
}

```



```

    })
    .then(response => response.json())
    .then(data => {
        if (data.success) {
            const saveButton = document.querySelector('.modal-btn.secondary');
            if (data.action === 'saved') {
                saveButton.innerHTML = '<i class="fas fa-bookmark"></i> Saved';
                showToast('Startup saved successfully!');
            } else {
                saveButton.innerHTML = '<i class="far fa-bookmark"></i> Save';
                showToast('Startup removed from saved list');
            }
        } else {
            showToast(data.message || 'Operation failed. Please try again. ');
        }
    })
    .catch(error => {
        console.error('Error:', error);
        showToast('An error occurred. Please try again. ');
    });
}

```

```

function checkSavedStatus(startupId) {
    return fetch(`check-saved-status.php?startup_id=${startupId}`)
        .then(response => response.json())
        .then(data => data.is_saved);
}

```

```

function viewStartup(startupId) {
    // Initialize modal elements
    modal = document.getElementById('startupModal');
    modalContent = modal.querySelector('.modal-content');
}

```

```

// Fetch startup details and saved status simultaneously
Promise.all([
  fetch(`get-startup-details.php?id=${startupId}`).then(r => r.json()),
  checkSavedStatus(startupId)
])
.then(([startup, isSaved]) => {
  // Update modal content
  document.getElementById('modalStartupName').textContent = startup.company_name;

  // Update modal body with fade-in animation
  const modalBody = document.getElementById('modalContent');
  modalBody.style.opacity = '0';
  modalBody.innerHTML = `
    <div class="entrepreneur-header">
      
      <div class="entrepreneur-info">
        <h3>${startup.entrepreneur_name}</h3>
        <br>
        <p>${startup.entrepreneur_email}</p>
      </div>
    </div>
    <div class="funding-info">
      <h3>Funding Progress</h3>
      <div class="progress-bar">
        <div class="progress" style="width: ${progress}%"></div>
      </div>
      <div class="stats">
        <div class="stat-item">
          <h4>₹${numberWithCommas(startup.raised_amount)}</h4>

```

```

        <p>Raised</p>
    </div>

    <div class="stat-item">
        <h4>₹${numberWithCommas(startup.target_amount)}</h4>
        <p>Target</p>
    </div>

    <div class="stat-item">
        <h4>${progress.toFixed(1)}%</h4>
        <p>Progress</p>
    </div>
</div>

<div class="modal-description">
    <h3>About</h3>
    <p>${startup.full_description || startup.short_description}</p>
</div>

<div class="modal-actions">
    <button class="modal-btn secondary" onclick="saveStartup(${startup.id})">
        <i class="fas ${isSaved ? 'fa-bookmark' : 'fa-bookmark-o'}"></i>
        ${isSaved ? 'Saved' : 'Save'}
    </button>

    <button class="modal-btn primary" onclick="contactEntrepreneur(${startup.entrepreneur_id},
${startup.id})">
        <i class="fas fa-comments"></i> Contact
    </button>
</div>
`;
.then(data => {
    if (data.success) {
        window.location.href = `messages.php?chat=${entrepreneurId}&startup=${startupId}`;
    } else {

```

```

        showToast(data.message || 'Failed to initiate chat');
    }
})
.catch(error => {
    console.error('Error:', error);
    showToast('Failed to connect with entrepreneur');
});
}
// Modal touch handling functions function
closeModal() {
    if (!modal) return;

    modal.classList.add('closing');
) closeModal();

});
modalContent.addEventListener('click', (e) => {
    e.stopPropagation();
});

// Add toast styles
const toastStyles = document.createElement('style'); toastStyles.textContent
= `
    `;
document.head.appendChild(toastStyles);
});
</script>
</body>
</html>
<?php
$conn->close();
?>

```

## APPENDIX-B

### SCREENSHOTS

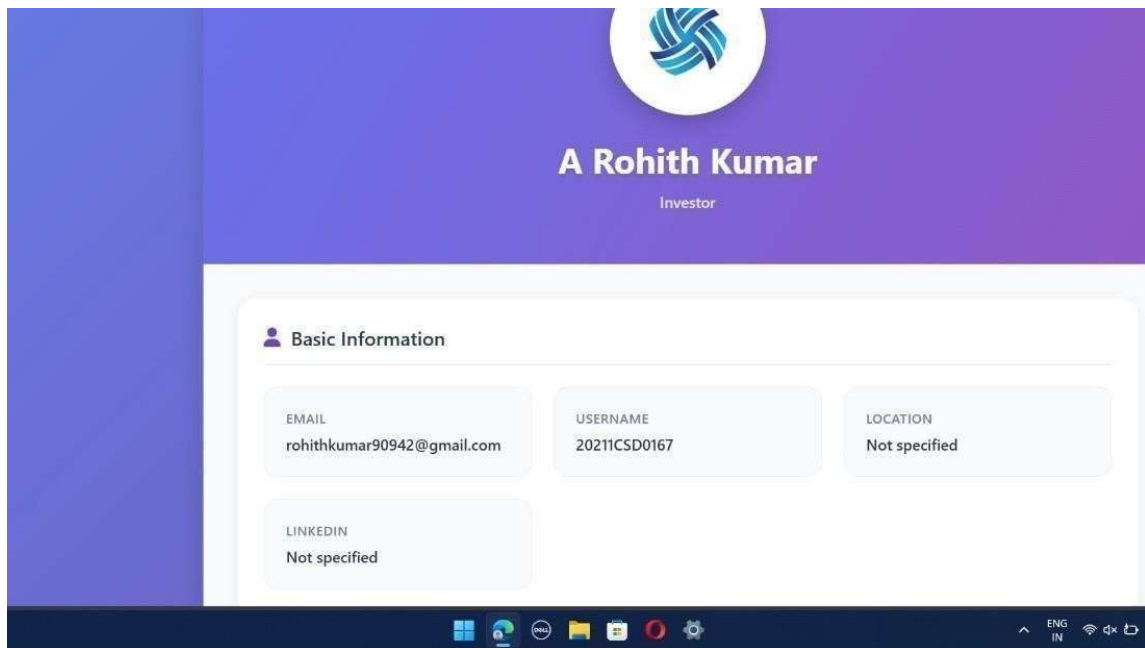


Figure 11.1 Investor info page

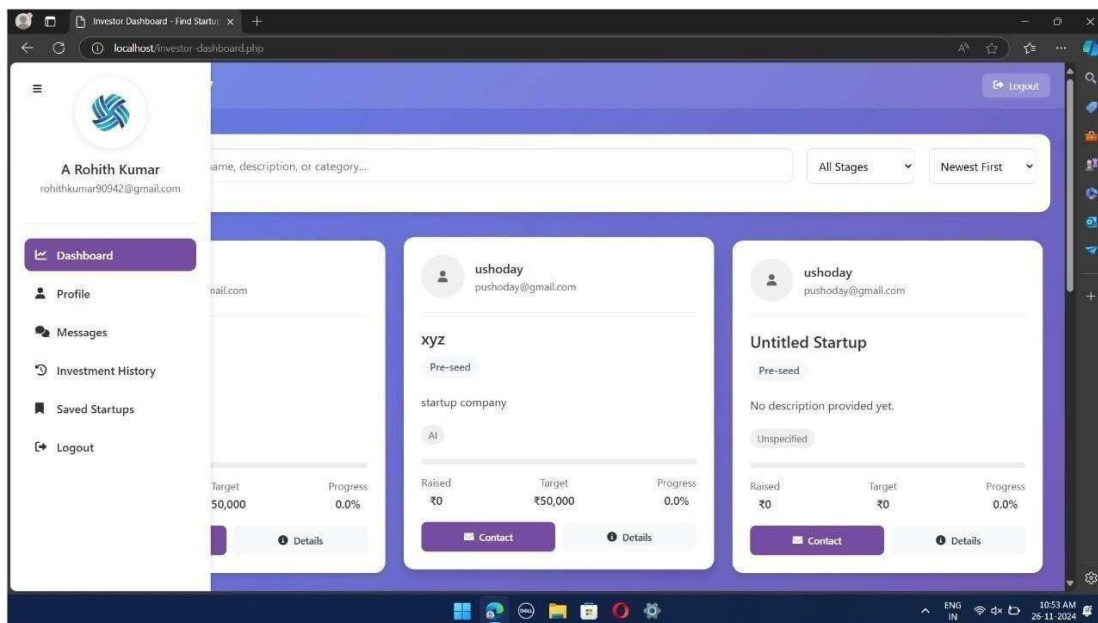


Figure 11.2 Platform dashboard

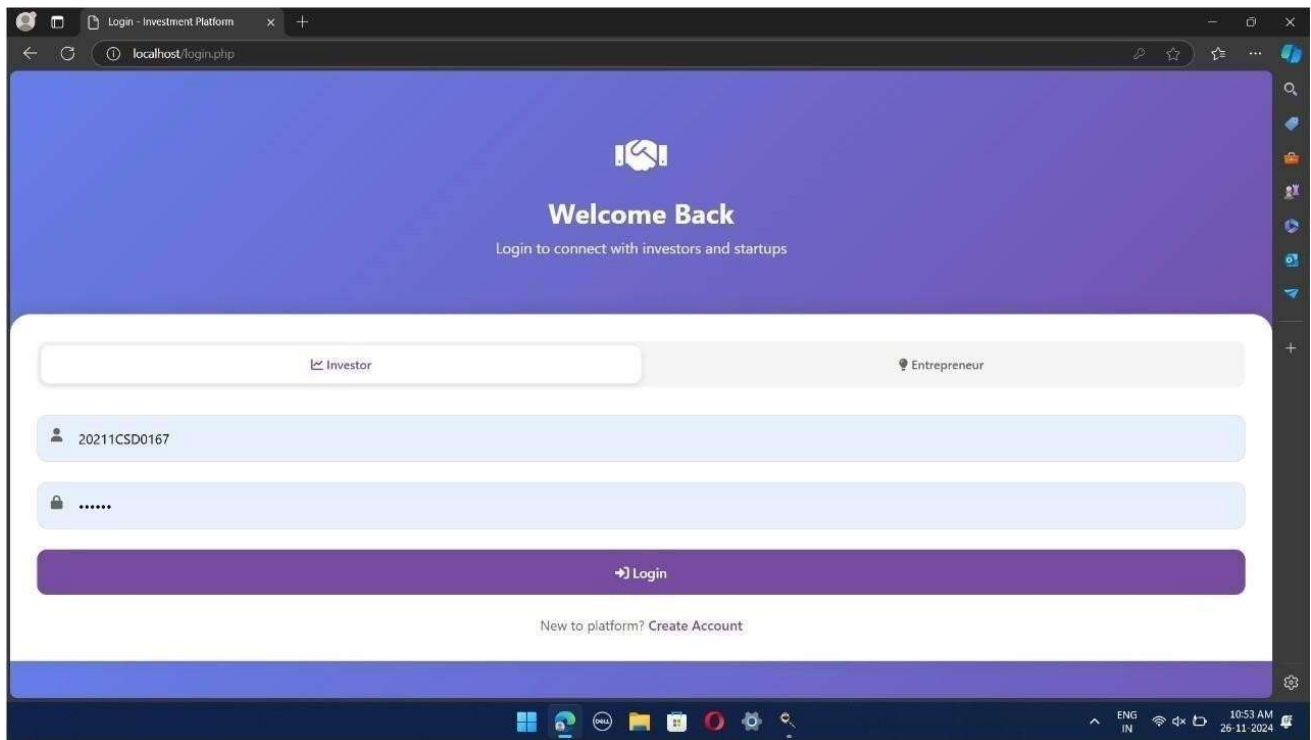


Figure 11.3 User Login Page

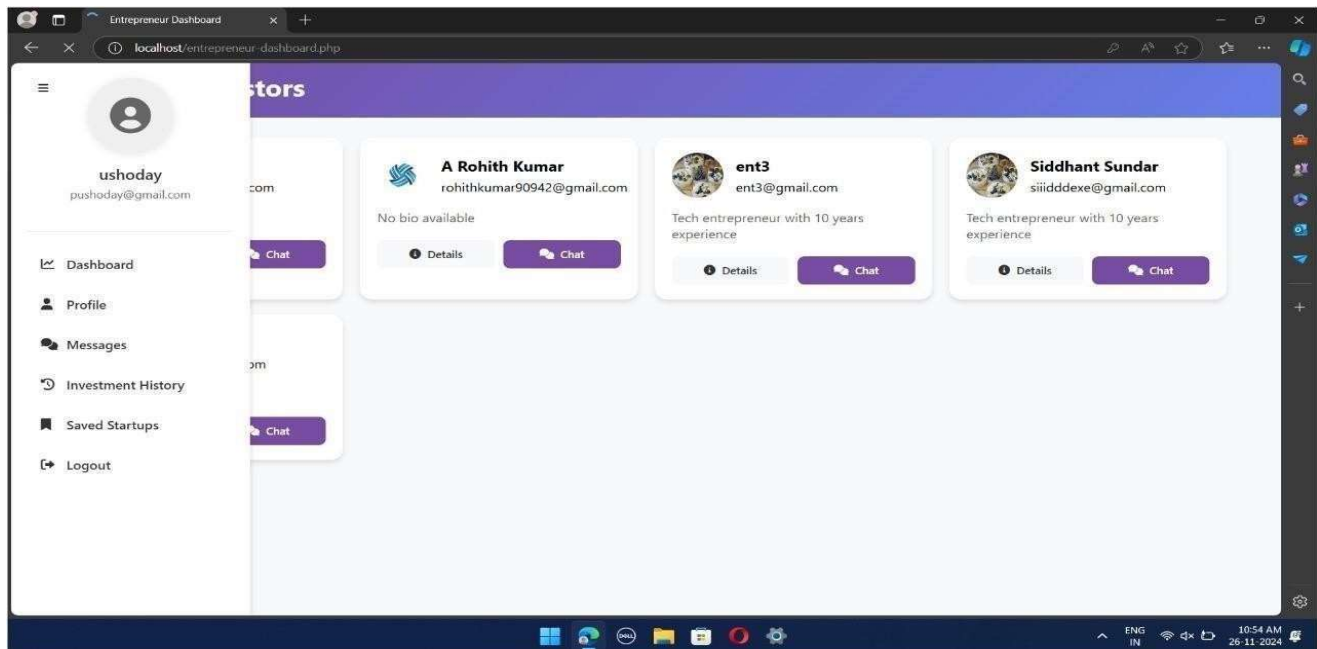
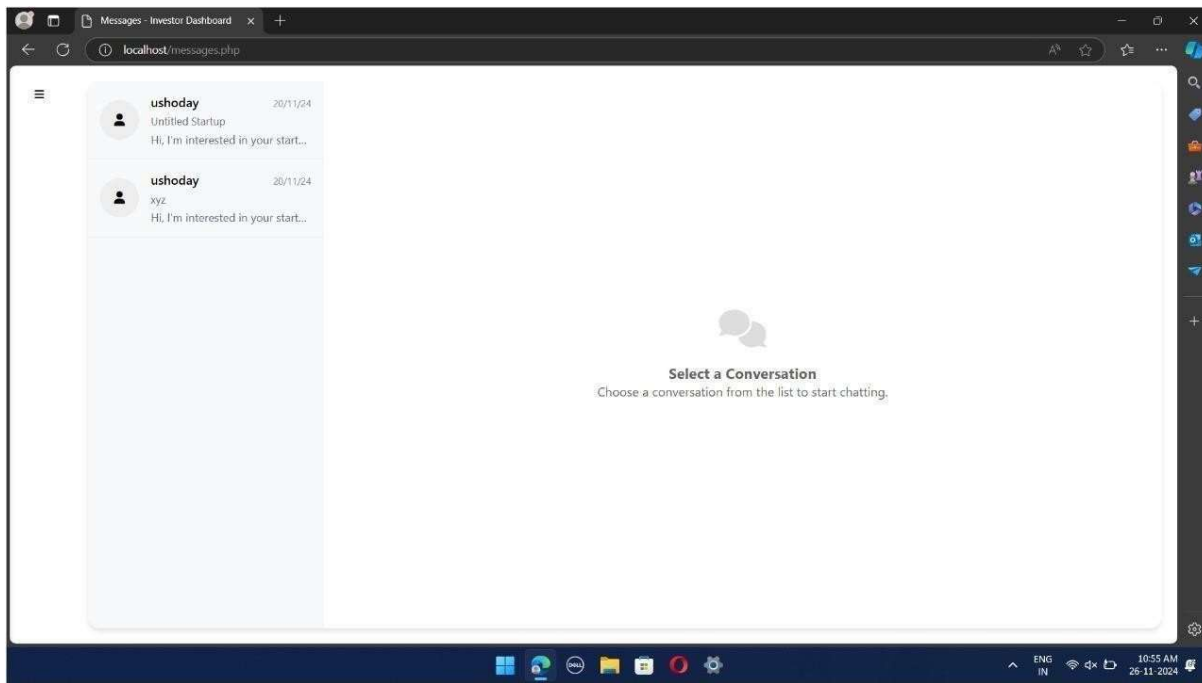


Figure 11.4 Entrepreneur User Interface



**Figure 11.5 Query Chat Box**

## **APPENDIX-C**

### **ENCLOSURES**

- 1. Journal publication/Conference Paper Presented Certificates of all students.**
- 2. Include certificate(s) of any Achievement/Award won in any project-related event.**
- 3. Similarity Index / Plagiarism Check report clearly showing the Percentage (%). No need for a page-wise explanation.**
- 4. Details of mapping the project with the Sustainable Development Goals (SDGs).**



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# 1. Details of mapping the project with the Sustainable Development Goals (SDGs).



The concept of an Online Interactive Entrepreneur Club typically aligns with several Sustainable Development Goals (SDGs), which include:

## 1. Economic Growth (Goal 8):

Foster sustainable economic growth through entrepreneurship, creating job opportunities, and promoting innovation. It emphasizes the need for sustained, inclusive, and sustainable economic growth. The aim is to achieve higher levels of economic productivity through diversification, technological innovation, and a focus on high-value-added activities. An entrepreneur club can facilitate this by providing a platform for knowledge sharing, mentorship, and networking, which may lead to new business ventures and job creation. It also supports the integration of sustainable practices in business operations, fostering long-term growth. By empowering individual entrepreneurs, the club contributes to broader economic resilience and development.



## **2. Quality Education (Goal 4):**

Provide resources, mentorship, and training sessions to enhance the entrepreneurial skills of members. Quality education is crucial for empowering individuals and fostering sustainable economic growth. This goal seeks to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. An Online Interactive Entrepreneur Club can offer resources, workshops, and training materials to enhance entrepreneurial skills and business acumen. Engaging in collaborative learning experiences helps members gain practical knowledge and confidence to launch and sustain their ventures. Additionally, access to a diverse range of educational resources helps bridge knowledge gaps and promote critical thinking.

## **3. Reduced Inequalities (Goal 10):**

Promote inclusivity by offering support to underrepresented entrepreneurs and creating equal access to opportunities. It aims to reduce inequality within and among countries, ensuring that every individual has an equal opportunity to succeed. An entrepreneur club can play a vital role by providing resources and support to underrepresented groups, such as women, minorities, and low-income individuals. By creating a diverse and inclusive community, the club fosters an environment where everyone can share ideas, network, and access funding opportunities. Promoting equitable access to entrepreneurial resources helps level the playing field and encourages diverse perspectives in business. This inclusivity not only enriches the entrepreneurial ecosystem but also drives social progress.

## **4. Gender Equality (Goal 5):**

Encourage female entrepreneurship and support women-led businesses. Achieving gender equality is essential for sustainable development, empowering women and ensuring their full participation in leadership and decision-making. An Online Interactive Entrepreneur Club can actively support female entrepreneurs through targeted programs, mentorship, and networking opportunities. By providing a supportive and inclusive environment, the club encourages women to launch and grow their businesses. Promoting gender equality in entrepreneurship not only enhances economic performance but also leads to more inclusive and sustainable communities. Ultimately, empowering women fosters innovation and contributes to varied solutions in the marketplace.

## **5. Innovation (Goal 9):**

Inspire innovative ideas and solutions among members, driving progress and technological advancements. Innovation is a key driver of economic growth and sustainable development, emphasizing the importance of resilient infrastructure and fostering innovation. It encourages

investment in research and development, supporting technological advancements and promoting sustainable industries. An entrepreneur club can spur innovation by facilitating discussions around new ideas, providing access to emerging technologies, and encouraging collaborative projects among members. By fostering a culture of creativity and experimentation, the club cultivates an entrepreneurial spirit that leads to the development of new products and services. Moreover, nurturing innovation boosts competitiveness and adaptability in changing markets.

#### **6. Partnerships for the Goals (Goal 17):**

Foster collaborations between entrepreneurs, educators, industry leaders, and governments to drive change. Building alliances among governments, private sector entities, and civil society is crucial for resource mobilization and knowledge sharing. An Online Interactive Entrepreneur Club can act as a hub for fostering partnerships, connecting entrepreneurs with industry mentors, investors, and organizations that align with their goals. By promoting collaboration, the club enhances the sharing of best practices and innovative solutions while leveraging various networks to maximize impact. Effective partnerships can lead to greater synergies and collective actions toward achieving broader development objectives.