VENTURELINK - A COMMUNITY FOR INVESTORS

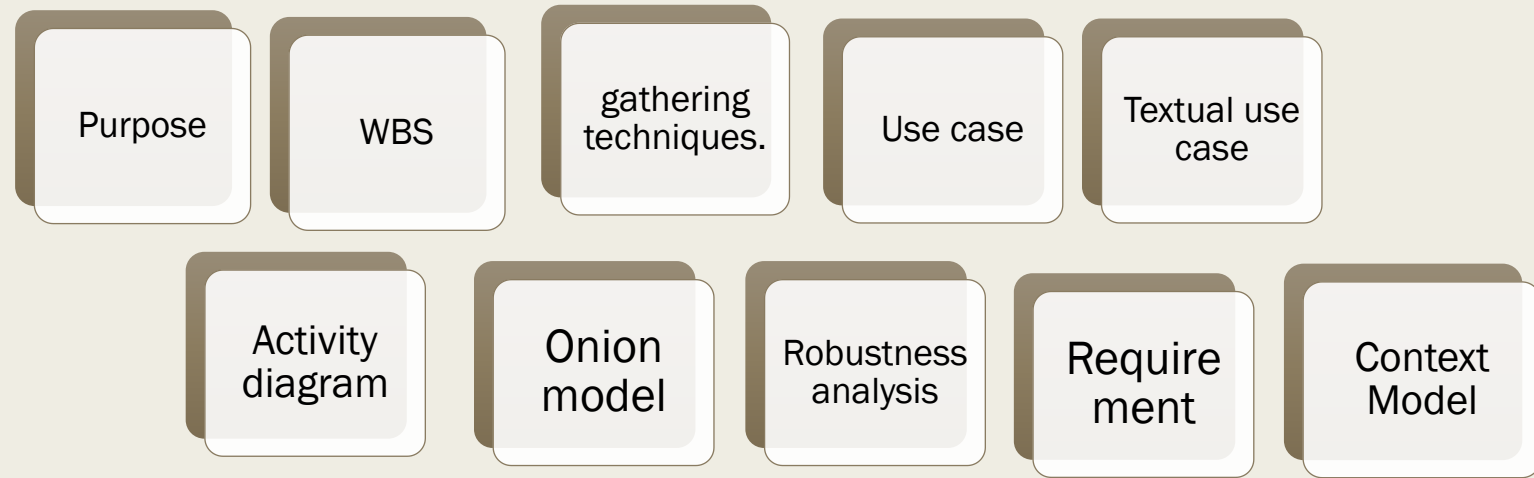A new way of investing...

Team members

- Ahmed Nayel Al Drabea | 32101002029 (Leader)

- Mousa Mohamed Mousa Khaleel | 32201002004 (co-Leader)

- Mohammad Muhsen Kamel Hilal | 32101002509 (Assist member)

- Muhammad Saad Abdullah Al-Zoubi | 32201002008 (Testing & validation)

- Yazeed Mohammad Amjad Nizar Fayoumi | 32101002009 (Testing & validation)

Drabea

Topics covered in this document

Purpose

WBS

gathering techniques.

Use case

Textual use case

Activity diagram

Onion model

Robustness analysis

Requirement

Context Model
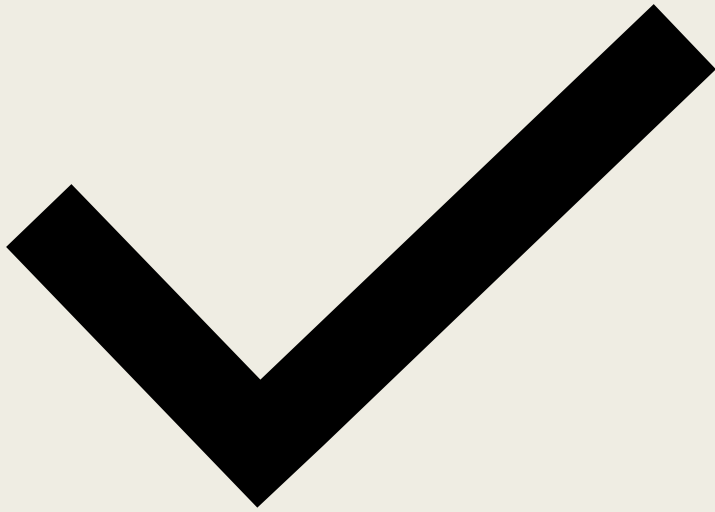
Overview of the project

- An online community of investors, where business sponsors around the world share ideas, experience, and struggle toward success with start-ups that have creative ideas in need of financial support and guidance, and help sponsors and business owners to find common ground and to discover each other and start their business relationship and discuss expected future success, estimations, and feasibility studies.

- Each sponsor (investor) can log in to their account where they can input specific data to define their profile. They can enter details about their previous sponsorships, achievements, investment history, and success stories. Additionally, they can specify the type of businesses they are most eager to invest in and their points of interest. Upon logging in, they are directed to their personalized page.

- Each business owner can also start a page that showcases their already existing projects in need of financial support or a project idea and its feasibility study, as well as the goals and purpose of their business and the expected returns on investment. They can add tags to categorize their projects and provide information about the goals and purpose of their business, along with the expected returns on investment. Upon logging in, they are directed to their personalized page.

Overview of the project (continue)

- The system allows users to decide whether to show their posts to all users or restrict access to protect their profile privacy. Users can discover each other through a search feature and recommendations and communicate via a chat functionality. Additionally, each user can add other users as friends(potential partnership).

- The homepage of the website showcases trending businesses, featuring most relevant business and friend's posts. The system also provides up-to-date investment news and allows users to send feedback about the system featured personalized page.

- Sponsors needed to provide information to prove their ability to invest such as : Identity verification, authentication and information about their last sponsorship, while business owners have to provide information such as: location of their business.

Project Requirements

- The website shall allow investors to create a page to display the amount of money they are willing to invest in relation to the size and type of each project.

- The website shall allow businesses to create a page to showcase their ideas or projects.

- The website shall allow businesses to add tags to their project to categorize them in terms of their business field.

- The website's homepage shall display to investors the trending businesses.

- The website's homepage decide on business to show in the trending page based on a criteria.

- The website shall allow a direct communication between the business owners and the investors.

- The website shall protect intellectual property of ideas shared on it from Plagiarism.

Project Requirements (continued)

- The website shall provide up-to-date information on investment news.

- The website shall verify the investors' ability to invest through financial history.

- The website shall allow users to send feedback.

- The website shall require investors to provide official financial proof in the sing-up page to ensure their trust-worthiness.

- The website shall require investors to provide financial qualifications in the sign-up page to ensure their financial history.

- The website shall require business owners to provide official proof in the sign-up page to make a background check and ensure their trust-worthiness.

- The website shall require business owners to provide financial qualifications in the sign-up page to ensure their recent financial history.

- The website shall require business owners in the sign-up page to provide proof of financial integrity ensure transparency and protect against money laundering.

Project Purpose

Goal

The project aims to close the gap between businesses with unique ideas and investors, and to provide a way to let investors and businesses communicate with each other without facing any difficulties.

Motivation

1. helping investors find convenient ways to invest in real-world projects, ideas, or help struggling businesses etc.

2.Fixing the problems that face investors when investing in different commercial fields.

Techniques that used in this project to getting requirements and needs

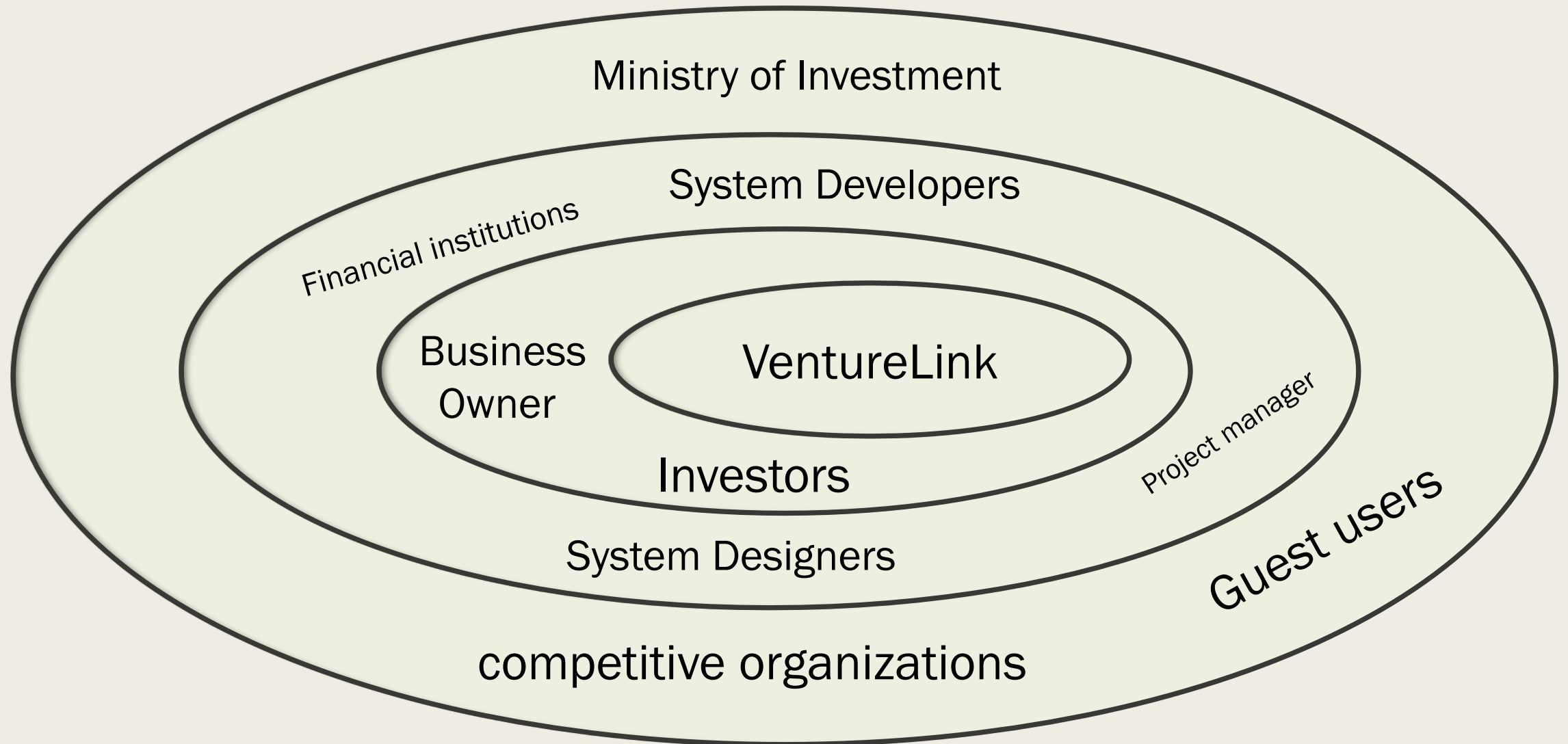- JAD (Joint Application Design)
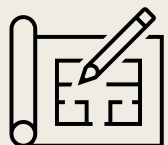- Prototyping

Why do we need to use JAD?

The stakeholders for this project the investors are very busy people and have no time to spare for VentureLink, we need to meet with them and business owners to gather their ideas, needs and feedback on the project.

Why do we need to use prototyping?

Prototyping is a valuable technique that can be used to showcase the system requirements and design in a clear and tangible (physical) way. By using prototyping, you can effectively gather feedback from stakeholders, reduce risks, and ensure that the system meets their needs and expectations.
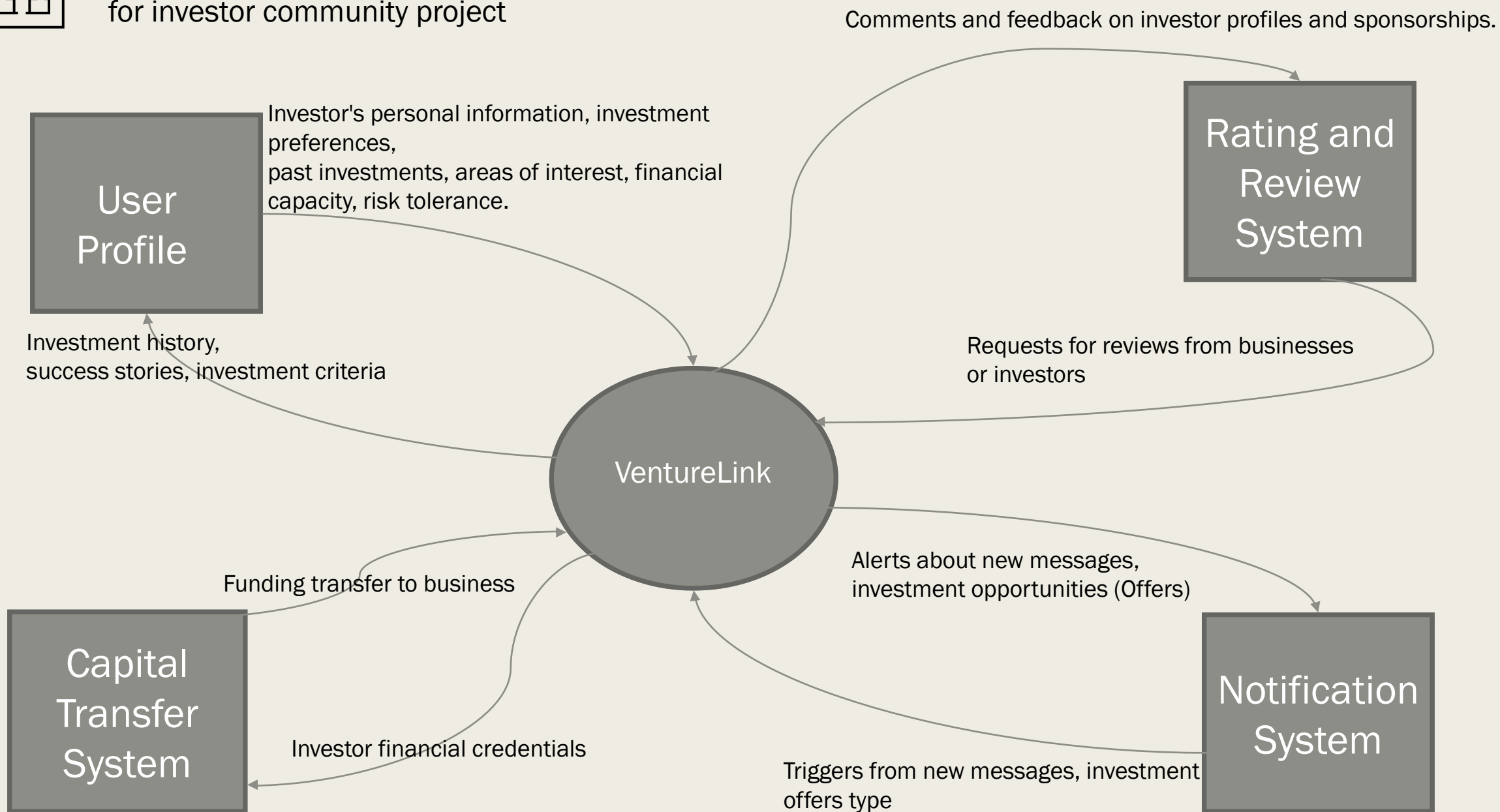
Stakeholder analysis model

[Context Model]
for investor community project

Comments and feedback on investor profiles and sponsorships.

Rating and Review System

Investor's personal information, investment preferences,
past investments, areas of interest, financial capacity, risk tolerance.

User Profile

Investment history,
success stories, investment criteria

Requests for reviews from businesses
or investors

VentureLink

Funding transfer to business

Alerts about new messages,
investment opportunities (Offers)

Capital Transfer System

Investor financial credentials

Notification System

Triggers from new messages, investment
offers type

Software Project Categorization

- 1. From the **real Users** point of view of this software product. This product is Generic, because it relies on the needs and expectations of a broad spectrum of investors and business owners not on a specific investor or customer with specific needs.

- 2. From the **Developers** point of view who will build the product it will be a Web Application, so we need experienced developers and engineers who are familiar with web development and web frameworks and PWA for mobile release.

- 3. From the **Management** point of view this project will be built from scratch, meaning that we will not rely on past project with similar functionality because this is an idea first of its kind.
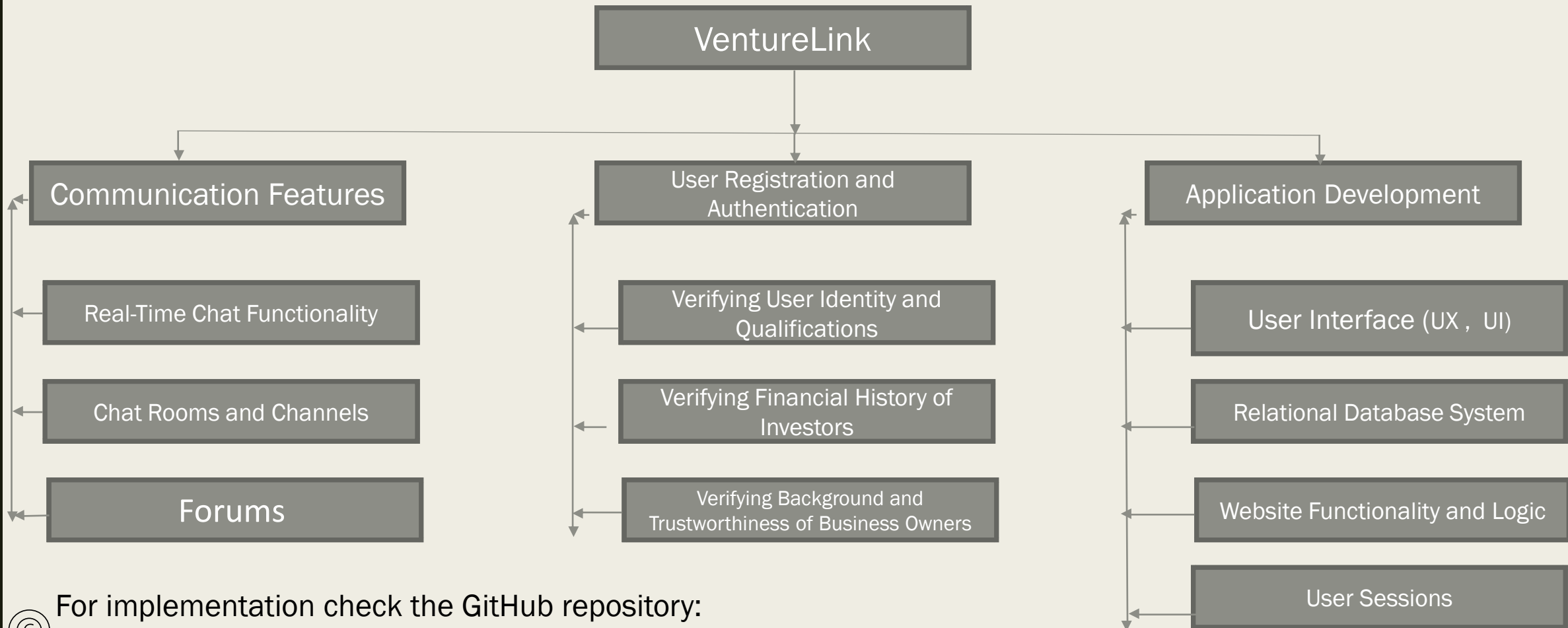
Project Development Methodology

■ Scum development methodology will fit perfectly with our constraints and resources.

- – *Since our budget is tight, and the development team consists of 5 members which is in the right size for a scrum team.*

- – *Scrum provides the perfect window to roll out prototypes and deliverables on a weekly basis.*

- – *Scrum is perfect for a team with different levels of experience in different fields, since the daily meeting will ensure everybody is on board.*

Work-Breakdown Structure(Component-Oriented)
To develop the project in a sequential manner

VentureLink

Communication Features

User Registration and Authentication

Application Development

Real-Time Chat Functionality

Verifying User Identity and Qualifications

User Interface (UX , UI)

Chat Rooms and Channels

Verifying Financial History of Investors

Relational Database System

Forums

Verifying Background and Trustworthiness of Business Owners

Website Functionality and Logic

User Sessions

For implementation check the GitHub repository:
https://github.com/MousaKhaleel/VentureLink-an-investors-community

Time estimation for the project activities
to avoid do highest risk in projects duration.

Activities	Immediate Predecessors	duration
User Registration and Authentication	-----------	3
Verifying User Identity and Qualifications	User Registration and Authentication	2
Application Development	-----------	14
User Interface (UX , UI)	Application Development	7
Relational Database System	Application Development	6
User Sessions	Application Development	1

Analysis table for information's about investor community to avoid build and fix concept.

| Nouns	Verbs
Sponsor	Sign in
Investor	Login
Business owner	Add your personal identification
User	Add information about last project
Project	Add location of owned company
Time	Choose project types investor is interested in
	Send user to their costume tailored home page
	Provide details on previous work experience
	Add tags to categorize the type of project
	Add timing to projects information

Analysis table (continue)

Nouns	Verbs
	Provide credits to each post
	Protect users profile information's
	Search ability to discover users
	Provide chatting features for communication
	Add user as friend (potential relationship)
	Show up-to-date investment news
	Show posts with more than 100 credits in the trending page
	Send feedback about system features
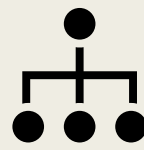
Activity diagram
to streamline software development in cool way
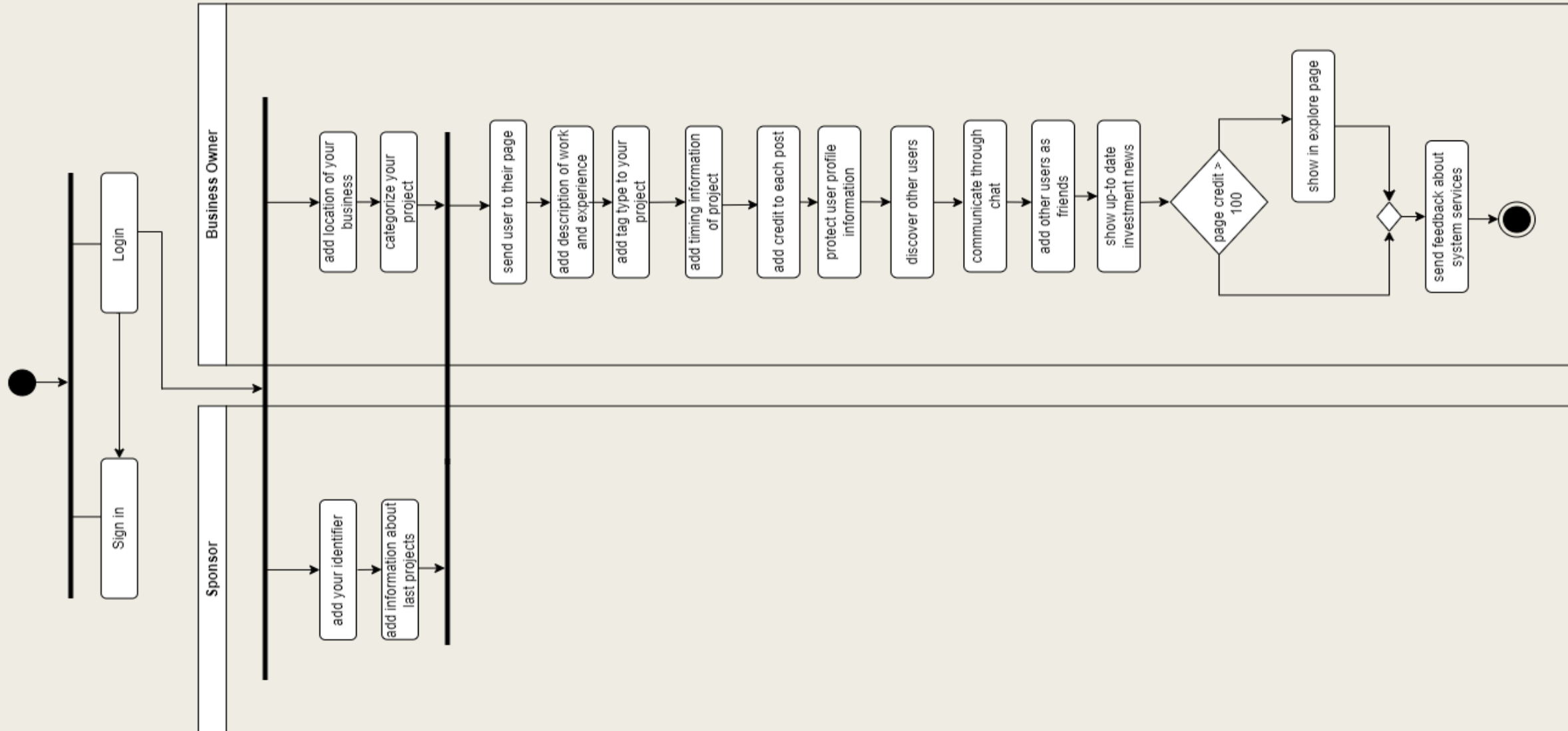
Sorry for rotating the diagram in this way but its because the size isn't sufficient!

Textual use case (main use case)

Use case name:	Investor community
Use case identifier:	1
Use case description:	An online investor community where sponsors and entrepreneurs connect, share ideas, and seek financial backing. Sponsors define their profile with past investments and preferences. Businesses showcase projects and goals, with privacy options. Users find each other, chat, and follow trends. The platform offers investment news and feedback options. Sponsors verify identity and past sponsorships; businesses provide location details.

Main Use case diagram
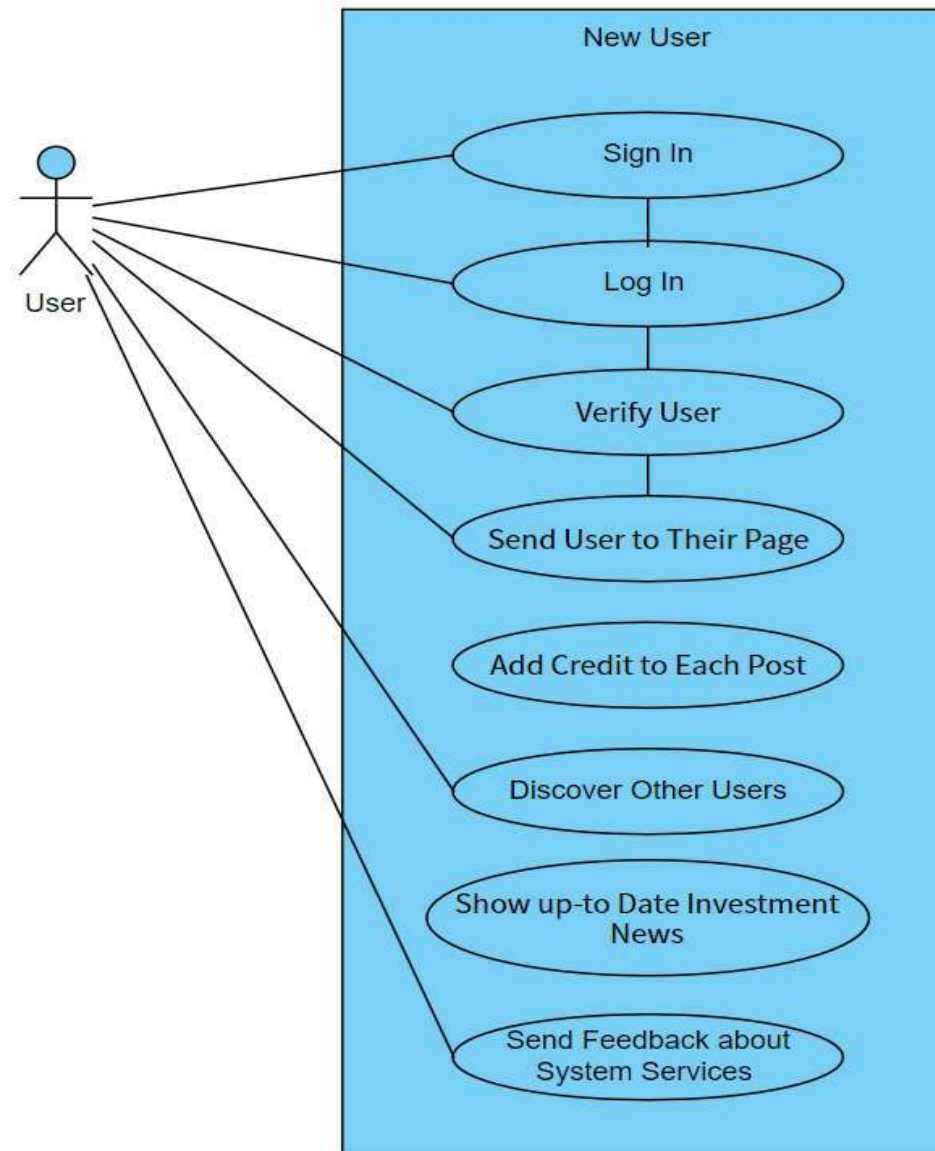
Textual use case (main use case) [continuer]

Main scenario	
	1. The investor community connects sponsors and startups worldwide, facilitating idea sharing, collaboration, and financial backing discussions.
	2. Sponsors create personalized profiles, detailing past investments and preferences, directing them to their dedicated pages upon login.
	3. Businesses showcase projects, goals, and returns on investment, categorizing with tags, and directing to personalized pages upon login.
	4. Users control post visibility, discover others via search and recommendations, communicate via chat, and add friends for potential partnerships.
	5. The homepage highlights trending businesses and posts, offers investment news, and enables feedback on personalized pages.
	6. Sponsors verify identity and past sponsorships; while businesses provide location details for authenticity.

Textual use case (main use case) [continuer]

Alternative scenario	
	1. User enters incorrect login credentials.
	2. The system detects the invalid credentials and displays an error message.
	3. The user may have mistyped their username or password or forgotten their login information

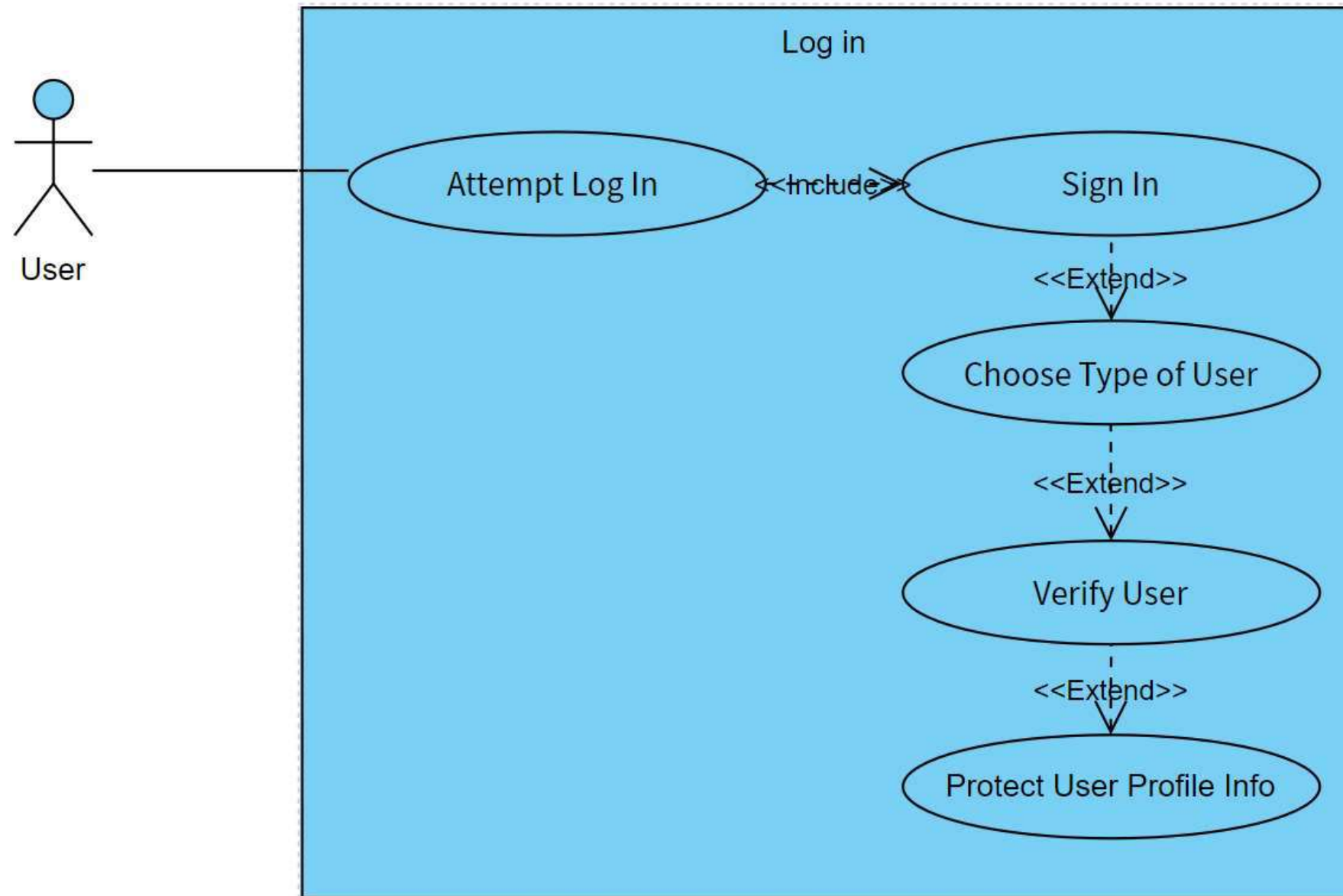| Pre-conditions	
	1. User must be connected to the internet
	2. User must have a mobile device or a PC
	3. User must navigate to the login or register page
	4. User must use valid credentials
	5. User can search for other users

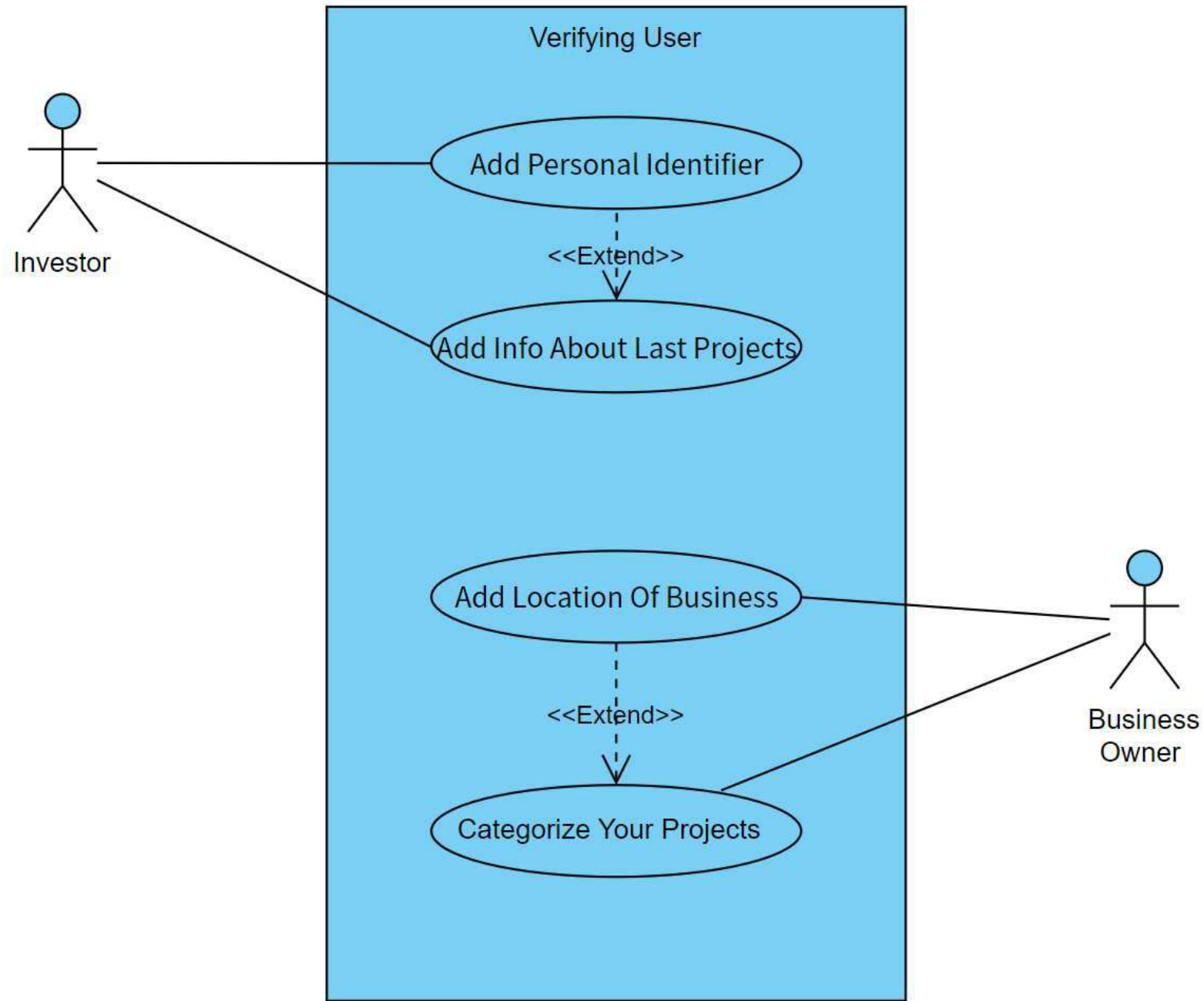| Post-conditions	
	1. Depends on credentials user will:
	1. Be redirected to the home page if the login is successful
	2. Be asked to re-enter credentials or register
	2. User can post a business if their type is business owner
	3. User can buy businesses if their type is investor
	4. User can view their profile
	5. User can chat with other users
	6. User can send feedback bout the system

Textual use case (sub use case)

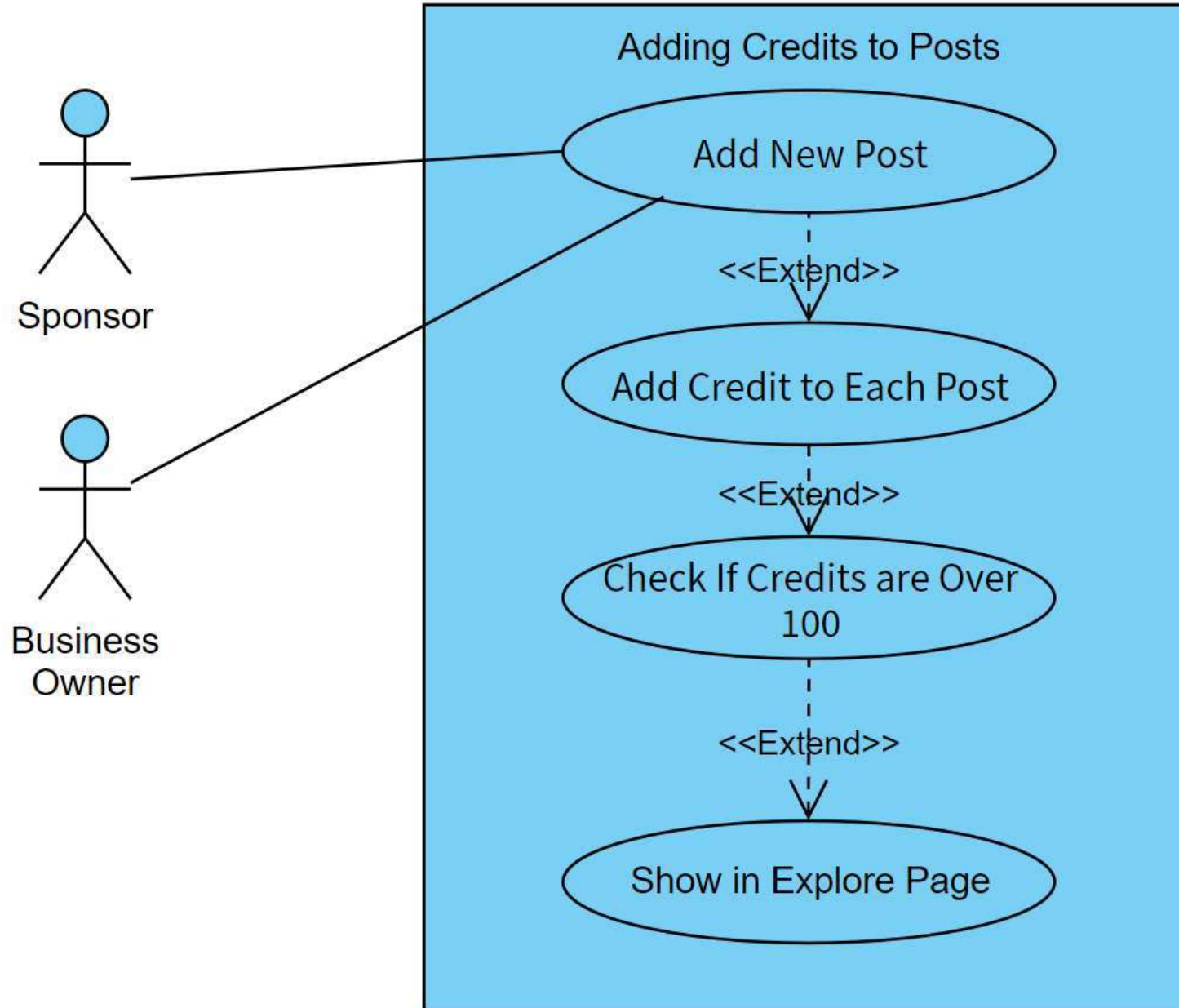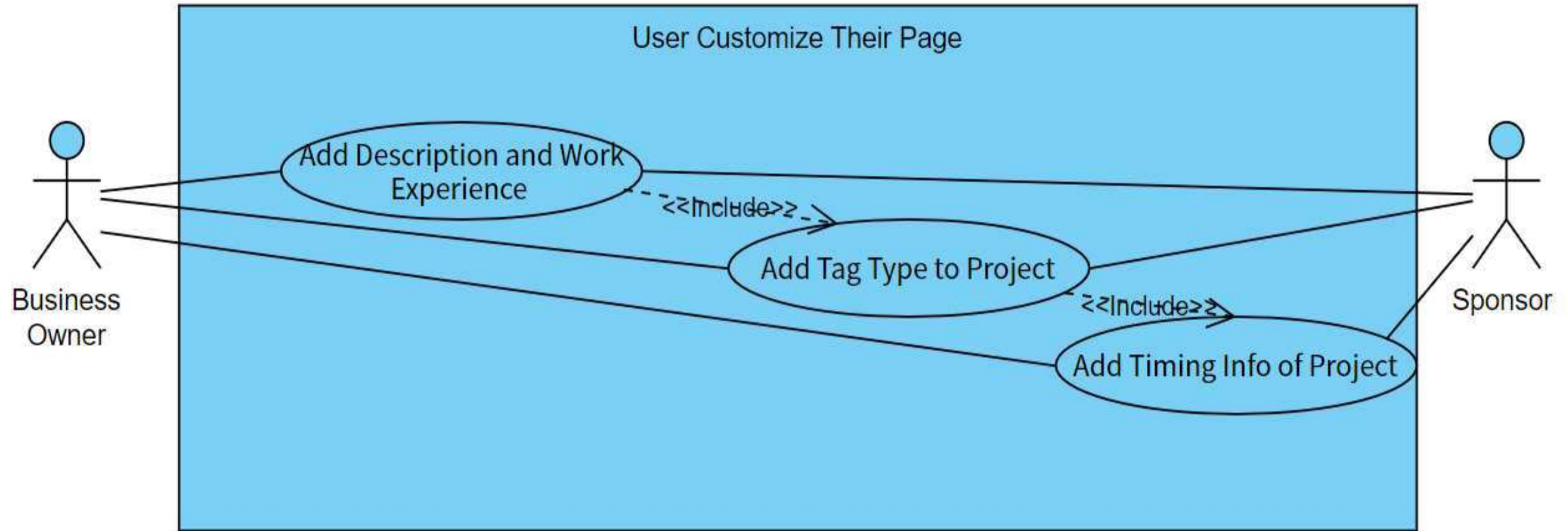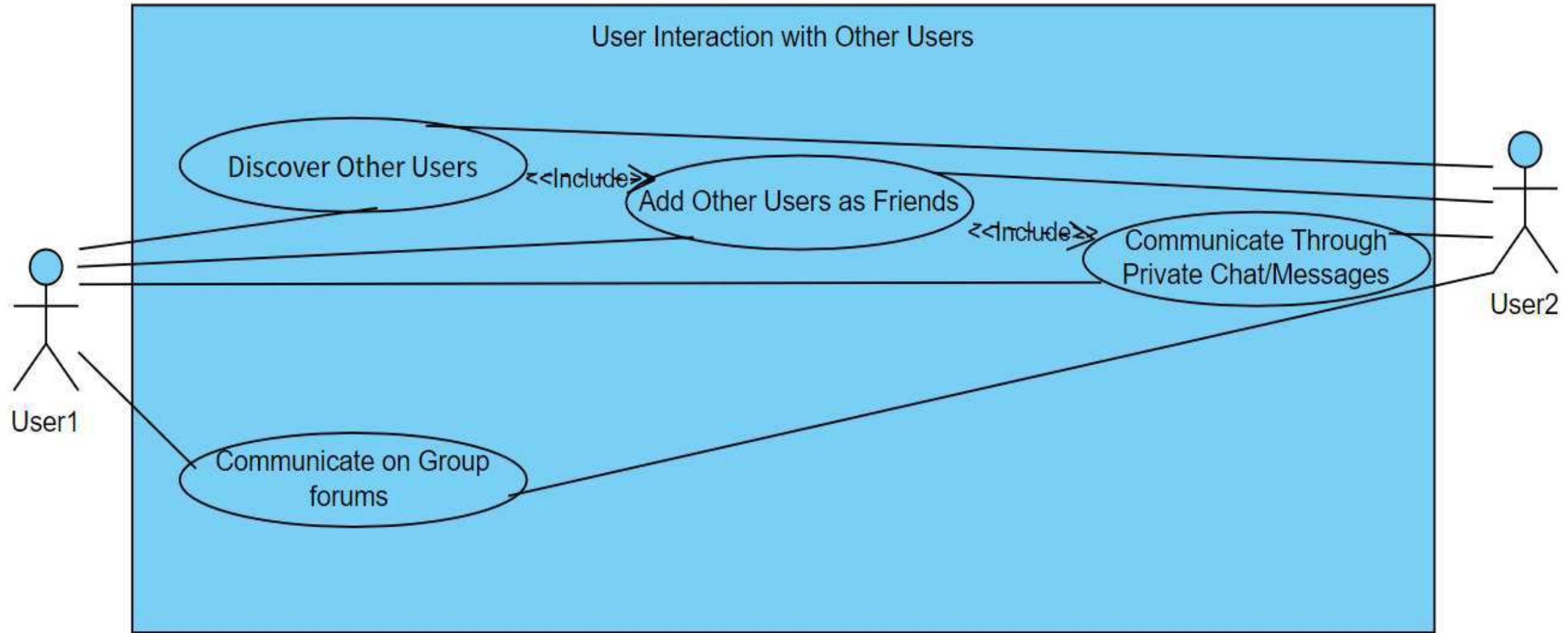| Use case name	Identify use
Use case number	2
Use case description	this sub use case will represent how the system will work with different users and who will provide the correct behavior to each one based on data from login and sign-in
Pre-conditions	- Have connection in network - Have mobile or laptop - Do sign-in in in main page
Post-conditions	- Go to the page to added owing needed data

Sub use case diagram

Sub use case diagram

Sub use case diagram

Sub use case diagram

Sub use case diagram

Main scenario	1. Each sponsor (investor) can log in to their account where they can input specific data to define their profile. They can enter details about their previous sponsorships, achievements, investment history, and success stories. Additionally, they can specify the type of businesses they are most eager to invest in and their points of interest. Upon logging in, they are directed to their personalized page. 2. Each business owner can also start a page that showcases their already existing projects in need of financial support or a project idea and its feasibility study, as well as the goals and purpose of their business and the expected returns on investment. They can add tags to categorize their projects and provide information about the goals and purpose of their business, along with the expected returns on investment. Upon logging in, they are directed to their personalized page.
Alternative scenario	1. The user may have entered incorrect or incomplete information, or the system may have encountered a technical issue. 2.The error could be due to various reasons, such as technical issues, invalid input, or exceeding system limits.

Robustness analysis