# Software Requirements Specification

# PRJ566 – Fall 2024

# PRJ566 – Team No: 4

# Name of Project: Skill Swap Application

# Project Leader:

Diba Makki

**Last updated:**April 17, 2025

**Team Members:**

1. Anton Zhuravlev
2. Diba Makki
3. Dylan Dioneda
4. Gia Huy Nguyen
5. Lawrence Wan

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# 1 - Introduction/Overview - Document Information

## 1.1 Document Authors

Gia Huy Nguyen  
Diba Makki

## 

## 1.2 Revision History

|  |  |
| --- | --- |
| Week 03 | 1. Introduction/Overview  1.1 Document Authors  1.2 Revision History  1.3 Document Conventions 1.4 Document Purpose  1.5 Intended Audience 1.6 Group Agreement 2.1 Project Proposal |
| |  |  | | --- | --- | | Week 04 | Added updates to: 1.3 Document Conventions | | **2.1 Problem Statement:** Identified the need for a centralized skill-sharing platform and its impact. **2.1 Product Vision:** Defined the purpose, target audience, and unique value of SkillSwap. **2.2** **Stakeholders & Users:** Listed key stakeholders and their roles. **2.5 Project Scope:** Outlined included features (e.g., skill matching, scheduling) and exclusions (e.g., payments). **2.6 System Risks:** Highlighted potential risks and mitigation plans. **2.7 Operating Environment:** Described the technical setup, tools, platforms, and security measures. |
| |  |  | | --- | --- | | Week 05 | Completed: 1.4 Document Purpose, 1.5 Intended Audience | | |  |  | | --- | --- | | Week 05 | Completed: 1.4 Document Purpose, 1.5 Intended Audience | |
| |  |  | | --- | --- | | Week 06 | Drafted: 1.6 Group Agreement | | |  |  | | --- | --- | | Week 06 | Drafted: 1.6 Group Agreement | |
| |  |  | | --- | --- | | Week 07 | Updated major deliverable schedules and success factors | | |  |  | | --- | --- | | Week 07 | Updated major deliverable schedules and success factors | |
| |  |  | | --- | --- | | Week 08 | Reviewed and finalized constraints, assumptions, and risks | | |  |  | | --- | --- | | Week 08 | Reviewed and finalized constraints, assumptions, and risks | |
| |  |  | | --- | --- | | Week 09 | Reviewed full document for alignment with objectives | | |  |  | | --- | --- | | Week 09 | Reviewed full document for alignment with objectives | |
| |  |  | | --- | --- | | Week 10 | Conducted a team-wide review and added final suggestions | | |  |  | | --- | --- | | Week 10 | Conducted a team-wide review and added final suggestions | |
| |  |  | | --- | --- | | Week 11 | Finalized content for submission | | |  |  | | --- | --- | | Week 11 | Finalized content for submission | |
| |  |  | | --- | --- | | Final | Document completed and submitted | | |  |  | | --- | --- | | Final | Document completed and submitted | |

## 1.3 Document Conventions

For example:

Any text in red indicates an exception or error.

Any text in blue is in-progress.

Any text highlighted in yellow is an important point.

Any text in green was recently added.

Any text *italicized* represents definitions.

Any text with ~~strike-through~~ is deleted.

## 1.4 Document Purpose

This Business Case Study document outlines the rationale, objectives and strategic plan for the Skill Swap Application, a platform designed to enable skill sharing without monetary exchange, It aims to provide a clear vision of the project, guide decision-making by analyzing market opportunities and risks, define Key requirements, and secure stakeholder buy-in. Additionally, it establishes a roadmap with detailed timeline and budget to ensure the successful development, launch, and post-launch improvement of the app. This document is intended for stakeholders, including investors, development teams, and senior management, to align efforts and ensure the project’s success.

## 1.5 Intended Audience

This document is intended for:

1. **Investors**: Individuals or organizations providing funding for the SkillSwap project. They need to understand the business case, financial projections, and potential return on investment.
2. **Senior Management**: Executives and decision-makers within the organization who will approve the project, allocate resources, and oversee its progress.
3. **Development Team**: Engineers, designers, and developers responsible for building the SkillSwap app. They require detailed technical requirements, timelines, and deliverables.
4. **Marketing Team**: Professionals tasked with promoting the app and driving user adoption. They need insights into the target market, unique selling points, and launch strategy.
5. **Legal and Compliance Teams**: Experts ensuring the app adheres to data privacy, security standards, and other regulatory requirements.
6. **Project Managers**: Individuals overseeing the project’s execution, ensuring it stays on track, within budget, and meets deadlines.
7. **End Users (Indirect Audience)**: While not directly reading the document, the needs and expectations of potential SkillSwap users are central to the app’s design and functionality.
8. **Partners and Collaborators**: External organizations or individuals who may collaborate on the project, such as vendors, consultants, or community groups.
9. **Stakeholders**: Any other internal or external parties with an interest in the project’s success, such as advisors, board members, or industry experts.

## 1.6 Group Agreement

**TEAM AGREEMENT**

**Team #: Group 4**

**Project Title: SkillSwap Application**

**Project Time Frame: 9 months**

**Team Members:**

**Diba Makki ( Project Leader )** : Oversees the project and ensures smooth execution.  
**Dylan Dioneda ( UI/UX Designer )** : Designs the app’s interface and user experience.  
**Gia Huy Nguyen ( Backend Developer )** :  Builds the server-side infrastructure and APIs.  
**Lawrence Wan ( Frontend Developer )** : Implements the client-side interface and ensures responsiveness.  
**Anton Zhuravlev (Quality Assurance(QA))** :  Tests the app for bugs, performance, and security

**Team Leadership:**

**Diba Makki**

**Team Functions:**

* *We will share information through MS Teams, OneDrive, GitHub ,email, and meetings.*
* *Conduct weekly meetings to track progress and resolve issues.*
* *Ensure timely communication and task delegation to meet deadlines.*

**Team Meetings:**

* Frequency: Weekly
* Medium: Virtual (MS Teams or Zoom)

**Team Problems:**

* All issues will be discussed during weekly meetings.
* Escalation of unresolved issues to the project lead.

**Team Commitment**

**The undersigned members agree to work together on the project until the end of the PRJ666 next Semester. They recognize that as a team and individually they are responsible for the quality of all deliverables.**

**Name Date**

|  |  |
| --- | --- |
| Gia Huy Nguyen | 2025 01-26 |
| Anton Zhuravlev | 2025 01-26 |
| Diba Makki | 2025 01-26 |
| Dylan Dioneda | 2025 01-26 |
| Lawrence Wan | 2025 01-26 |

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# 2 - Project Overview

## 2.1 Project Proposal

Project Background

In today’s fast-paced and interconnected world, the demand for skill-sharing and collaborative learning has grown significantly, yet there is no centralized, efficient, and trustworthy platform to facilitate skill exchanges without monetary transactions. Currently, skill-sharing happens informally through word-of-mouth, social media, or local community boards, leading to disorganization, trust issues, and scheduling challenges. SkillSwap aims to address this gap by creating a user-friendly app that connects individuals to exchange skills in a structured, reliable, and community-driven manner. The platform will leverage advancements in technology to offer features like skill verification, secure authentication, and scheduling tools, ensuring a seamless and trustworthy experience. With the rise of collaborative economies and the increased adoption of digital platforms for learning and connection—accelerated by the COVID-19 pandemic—SkillSwap is well-positioned to tap into this untapped market and become a leading solution in the skill-sharing space.

**Problem Statement**

|  |  |
| --- | --- |
| The Problem of: | Lack of a centralized, efficient, and trustworthy platform for skill-sharing without monetary exchange. |
| Affects: | Individuals seeking to learn or share skills, communities, and organizations that could benefit from collaborative learning. |
| The impact of which is: | Disorganized skill exchanges, lack of trust and verification, scheduling conflicts, and unmet expectations, leading to inefficiency and frustration. |
| A successful solution would: | Provide a user-friendly, secure, and community-driven platform that enables seamless skill-sharing, ensures skill verification, and facilitates reliable matchmaking and scheduling |

**Product Vision**

|  |  |
| --- | --- |
| For | Individuals and communities seeking to share and learn skills without monetary exchange. |
| Who | Wants a reliable, efficient, and trustworthy platform for skill-sharing. |
| The Product Name | SkillSwap |
| That | Connects users to exchange skills seamlessly, offering features like skill verification, secure authentication, and scheduling tools. |
| Unlike | Informal skill-sharing methods (e.g., social media, word-of-mouth) that lack structure, trust, and reliability. |
| Our product | Provides a centralized, user-friendly platform that fosters collaboration, ensures trust, and makes skill-sharing accessible to everyone. |

## 2.2 Stakeholders and Users

|  |  |
| --- | --- |
| Stakeholder Name/Identifier | Category |
| CEO (Chief Executive Officer) | Administration, Sponsor |
| Primary Users | SkillSwap App Users (End Users) |
| Investors | Angel Investors, Venture Capitalists |
| Development Team | Developers, Designers, QA Testers |
| Marketing Team | Marketing Specialist, Social Media Managers |
| Management | Project Sponsors |
| Legal and Compliance Team | Legal Advisor, Compliance Officers |

## 2.3 Functional Requirements

Functional Requirements for the project would be to have User Management so that users can log in with accounts that they make using their email and usernames and passwords they think up and any other relevant data like, real name, date of birth, this would also require secure login and authentication. There is also talents that would need to be included as well, a panel that users can go to and edit to show their best foot forward, like some sort of resume that people can scroll through and see when they search for a specific job.

There would also be requirements for better security so users can use the app with total safety, when they are logging in, to ensure no one steals their account, when they talk to other users so that their chats cant be seen by the public eye, but we would also need moderation, so that nothing illegal or morally wrong is happening in the app

## 2.4 Nonfunctional Requirements

Nonfunctional Requirements for the project would include things along the lines of, performance and scalability, end user experience, cross platform compatibility as well as reliability of the program with things like maintenance and program upkeep as we are still in the planning stages of the program those tasks which would provide quality of life to the users are not yet needed

## 2.5 Project Scope

The SkillSwap project aims to develop and launch a user-friendly, secure platform that enables individuals to exchange skills without monetary transactions. The app will include key features such as mobile and web compatibility, secure user authentication, skill verification, skill matching, scheduling tools, and community-building features like forums and chat functionality. Additionally, an admin dashboard will be developed for platform management, and comprehensive testing will ensure a bug-free and secure application. The project will culminate in a coordinated app launch supported by a marketing campaign to drive user adoption. The timeline for development is 9 months, with an additional 3 months allocated for post-launch improvements, and the total budget is set at $500,000, covering development, marketing, and contingency expenses.

Certain features and functionalities are explicitly out of scope for this project. These include monetary transactions, advanced AI-driven features, offline functionality, and global expansion. The initial launch will focus on a specific region or market, with scalability in mind for future growth. The project assumes user willingness to adopt the platform, the development team’s ability to deliver within budget and timeline, and user trust in the platform’s verification and matching systems. Key risks include low user adoption, security vulnerabilities, and potential delays, while constraints include the limited budget, strict timeline, and compliance with data privacy regulations. By defining these boundaries, the project ensures a clear focus on delivering a secure, efficient, and community-driven skill-sharing platform.

## 2.6 System Risks

|  |  |
| --- | --- |
| **Risk** | **Response** |
| Data privacy and security vulnerabilities could expose user information. | Implement robust encryption, comply with data privacy regulations, and conduct regular security audits. |
| Delays in backend development could impact the overall project timeline. | Allocate additional resources to backend development and set up frequent progress check-ins to ensure milestones are met. |
| Low user adoption due to a lack of awareness or trust in the platform. | Launch a targeted marketing campaign, offer incentives for early adopters, and implement a user feedback loop to build trust and improve the platform. |
| Integration issues between the mobile and web versions of the app. | Use a unified development framework and conduct cross-platform testing to ensure seamless integration. |
| Skill verification system may be exploited or abused by users. | Implement a multi-step verification process, including user reviews and manual checks for high-risk skills. |
| Scalability challenges as the user base grows. | Design the app with scalability in mind, using cloud-based infrastructure and load testing to handle increased traffic. |

## 2.7 Operating Environment SkillSwap will be built using **React Native** for mobile apps (iOS and Android) and **HTML/CSS** for the web. The backend will use **Node.js** with a **MongoDB** database, hosted on **AWS** or **Google Cloud**. The app will work on **iOS 14+**, **Android 10+**, and modern browsers like Chrome and Safari. It will include **secure login** (OAuth 2.0 and JWT), **data encryption**, and follow **GDPR/CCPA** rules. Testing will ensure the app works well and is secure. After launch, we’ll use tools like **New Relic** to monitor performance and fix issues quickly.

## 2.8 UI/UXD Interface Mock-ups**A screenshot of a web page AI-generated content may be incorrect.**

URL: <https://wireframe.cc/FWoQuI>  
URL: <https://www.figma.com/design/A3oZ3xHZ6Rskrt4lY48Kmb/SkillSwap?node-id=11-6&t=GYbttco1Em1gmI8M-1>

# Process and Data Modeling

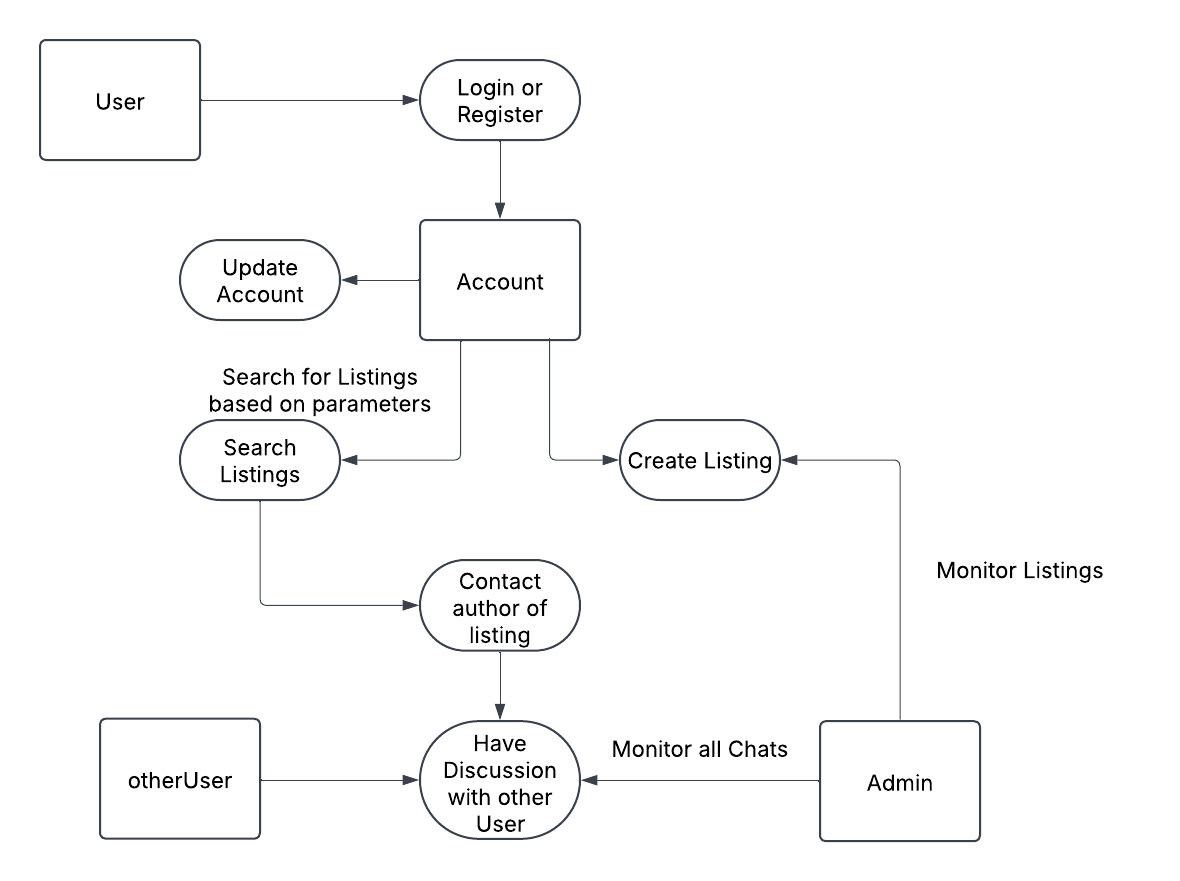
## **3.1 UML/DFD Modeling and Data Modeling**

## Activity Diagram

A diagram of a company

AI-generated content may be incorrect.

## Data Flow Diagram



## **3.2 Business Rules**

|  |  |  |
| --- | --- | --- |
| Business Rule Number | Business Rule Description | Related UC |
| BR01 | User must provide a username, email and password to register for the app. | UC01 |
| BR02 | Post length can be no longer than 300 characters | UC02 |
| BR03 | Password must be at least 8 characters long and include one uppercase letter, one lowercase letter, one number, and one special character. | UC01 |
| BR04 | Users must verify their email via a verification link before they can log in. | UC01/UC02 |
| BR05 | Users can only edit their own profiles. | UC03 |
| BR06 | Each skill post must be categorized under at least one skill type. | UC04 |
| BR07 | A user may not post more than 5 skill offers per day. | UC04 |
| BR08 | A user can send a maximum of 10 skill match requests per day. | UC05 |
| BR09 | Users must confirm a skill exchange within 48 hours of receiving a match, or the request will expire. | UC06 |
| BR10 | Both parties must agree on a date and time before a session is scheduled. | UC07 |
| BR11 | Users may report inappropriate behavior or content, which will notify moderators. | UC08 |
| BR12 | Users with 3 or more verified reports will be temporarily suspended until reviewed. | UC08/UC09 |
| BR13 | All private chats are encrypted end-to-end. | UC10 |

## **3.3 Use Case Specifications with corresponding interface mockups:**

**Each use case needs to have the following:**

**UC01 – User Registration**

**Business Rules:**  
BR01, BR03, BR04

**Actors:**  
New User

**Preconditions:**  
User has not registered yet.

**Main Flow:**

1. User accesses registration form.
2. Enters name, email, password.
3. Clicks “Register”.
4. System validates data.
5. Sends verification email.
6. User clicks verification link.
7. Account is activated.

**Postconditions:**  
User can log in to their new account.

**Exceptions:**

* Email already in use → error message.
* Weak password → prompt to fix.  
  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**UC02 – User Login**

**Business Rules:**  
BR03, BR04

**Actors:**  
Registered User

**Preconditions:**  
User must be registered and have a verified account.

**Main Flow:**

1. User opens the login screen.
2. Enters email and password.
3. Clicks “Login”.
4. System authenticates user.
5. Redirects to dashboard/homepage.

**Postconditions:**  
User is logged into their account.

**Exceptions:**

* Incorrect credentials → error message.
* Unverified email → prompt to verify.

**UC03 – Post Skill**

**Business Rules:**  
BR02, BR06, BR07

**Actors:**  
Registered User

**Preconditions:**  
User must be logged in.

**Main Flow:**

1. User navigates to “Post a Skill” screen.
2. Enters title, description (max 300 characters), selects category.
3. Clicks “Post”.
4. System validates content and stores skill in database.
5. Skill becomes publicly viewable in listings.

**Postconditions:**  
Skill is available for matching.

**Exceptions:**

* Missing required fields → form error.
* Daily post limit reached → notify user.

**UC04 – Request Skill Match**

**Business Rules:**  
BR08, BR09

**Actors:**  
Registered User

**Preconditions:**  
User must be logged in and have a completed profile.

**Main Flow:**

1. User searches for a skill.
2. Selects a skill post and clicks “Request Match”.
3. Confirms request and adds optional message.
4. System logs the request and notifies the other user.
5. Await response.

**Postconditions:**  
Request is pending or accepted/rejected.

**Exceptions:**

* Request limit reached → block further requests.
* Duplicate request to same skill → prevent repeat.

**UC05 – Schedule Session**

**Business Rules:**  
BR10

**Actors:**  
Two Matched Users

**Preconditions:**  
Users have accepted a match request.

**Main Flow:**

1. One user opens the scheduling tool.
2. Proposes a date/time.
3. Other user receives the proposal and confirms or reschedules.
4. Upon mutual agreement, session is finalized and saved.

**Postconditions:**  
Scheduled session saved and synced to both calendars.

**Exceptions:**

* Conflict in availability → system prompts alternate options.

**UC08 – Report User**

**Business Rules:**  
BR11, BR12

**Actors:**  
Any Logged-In User

**Preconditions:**  
User is logged in and has interacted with another user.

**Main Flow:**

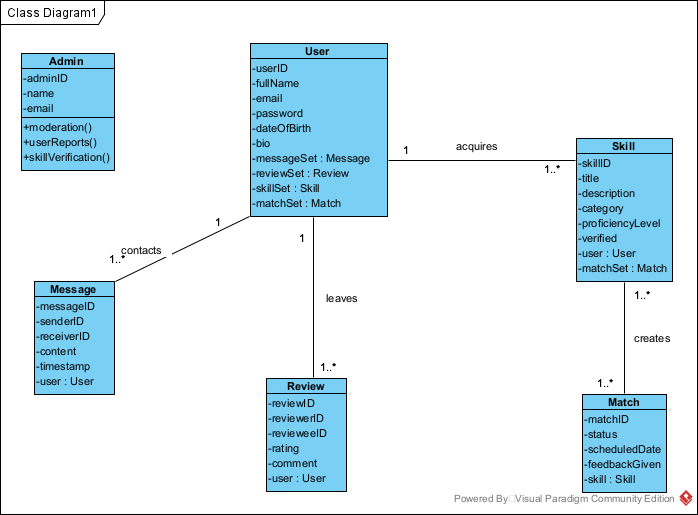
1. User navigates to other user’s profile or chat.
2. Clicks “Report User” button.
3. Selects a reason and provides a description.
4. Clicks “Submit Report”.
5. System logs report, notifies moderator for review.

**Postconditions:**  
Report is queued for admin action.

**Exceptions:**

* Duplicate report on same issue → notify user.

# Domain Class Diagram



# Database

**MongoDB  
Collections:**

* **users**
* **skills**
* **matches**
* **messages**
* **sessions**

### **Sample Document (users)**

Json:

{

"\_id": ObjectId("..."),

"name": "John Smith",

"email": "JohnSmith@example.com",

"password": "hashed\_password\_here",

"verified": true,

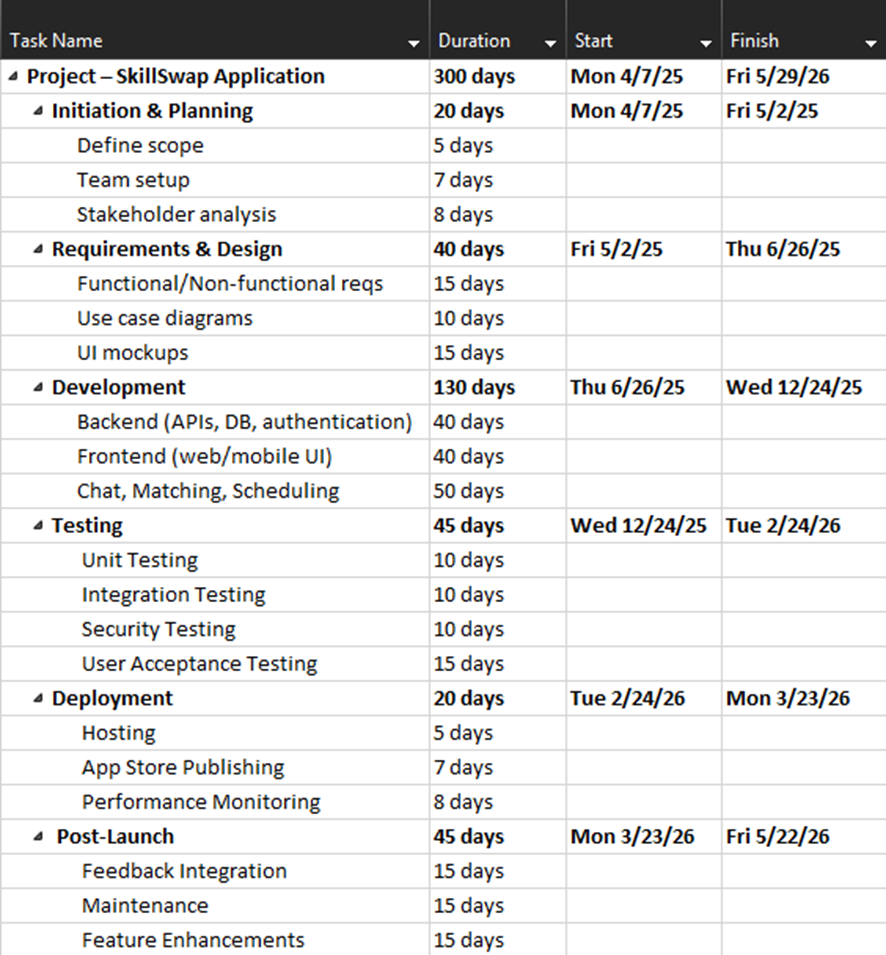
"skills": ["Guitar", "Public Speaking"]

}

**Data Dictionary**

| **Collection** | **Field** | **Type** | **Description** |
| --- | --- | --- | --- |
| **Users** | **Name** | **String** | **Full name** |
|  | **email** | **String** | **Unique email** |
|  | **Password** | **String** | **Hashed password** |
|  | **skills** | **[String]** | **List of skills** |
| **skills** | **title** | **String** | **Name of skill** |
|  | **description** | **String** | **Details about the skill** |
|  | **owner\_id** | **ObjectId** | **Linked user** |

# Work Breakdown Structure (WBS)



# Milestones and Acceptance Criteria

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Definition** | **Acceptance Criteria** |
| Requirements Finalized | All SRS and mockups approved | Signed-off requirements document |
| MVP Development Complete | Core features built and functional | Users can register, login, match, message, and schedule |
| Beta Testing Begins | App released to selected users for feedback | Bugs logged, feedback collected |
| Final Release | App deployed to stores | No critical bugs, performance meets standards, compliance checks passed |
| Project Closure | Documentation & sign-off complete | All deliverables submitted, approval received from faculty |

# Implementation Schedule - Product Backlog (Agile-Scrum)

### **1. User Authentication & Account Management** **Epic:** Secure Sign-up, Login, and Account Recovery

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-001 | As a user, I want to register with my email and username so I can use the app. | High | Validations for unique email/username, password rules, email verification. | - | 5 |
| PB-002 | As a user, I want to log in securely to access my account. | High | JWT token-based session; incorrect credentials blocked after 5 tries. | PB-001 | 3 |
| PB-003 | As a user, I want to reset my password via email. | High | Secure password reset token, expiry link, email notification. | PB-001 | 5 |

**2. Skill Discovery & Browsing**  
**Epic:** Browse, Search, and Filter Skills

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-004 | As a user, I want to browse a list of skills other users offer. | High | Skill cards with basic info (title, rating, category) shown. | PB-002 | 5 |
| PB-005 | As a user, I want to search skills by name or keyword. | High | Live search with suggestions; relevant results displayed. | PB-004 | 3 |
| PB-006 | As a user, I want to filter skills by category and level. | Medium | Dropdown filters with real-time updates to listings. | PB-004 | 3 |

**3. Matching and Session Scheduling**  
**Epic:** Skill Matching & Availability Booking

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-007 | As a user, I want to send match requests to other users based on skill interest. | High | Match request sent; visible in both users’ dashboards. | PB-004 | 5 |
| PB-008 | As a user, I want to accept or reject match requests. | High | Response saved; notification sent to requester. | PB-008 | 3 |
| PB-009 | As a matched user, I want to schedule a session at a mutually convenient time. | High | Integrated calendar; time conflict validation; confirmation prompt. | PB-008 | 5 |

**4. Messaging System**  
**Epic:** Real-Time User Communication

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-010 | As a matched user, I want to message my match to coordinate details. | High | Secure chat with timestamps, only available to matched users. | PB-008 | 5 |
| PB-011 | As a user, I want to report inappropriate messages. | High | Report button with automated flagging to admin. | PB-010 | 3 |

**5. Reviews & Ratings**  
**Epic:** Post-Session Feedback

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-012 | As a user, I want to leave a review after a completed session. | Medium | Star rating, comment field, once per session. | PB-009 | 5 |
| PB-013 | As a user, I want to view reviews before matching with someone. | Medium | List of past reviews shown on user profile. | PB-012 | 3 |

**6. Admin Management**  
**Epic:** Moderation and Skill Verification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-014 | As an admin, I want to review flagged messages and take actions. | High | Admin panel with report list and action buttons. | PB-011 | 5 |
| PB-015 | As an admin, I want to verify skill profiles before publishing. | Medium | Verification badge shown only after admin approval. | PB-004 | 4 |

**7. Notifications & Alerts**  
**Epic:** Event-Based Alerts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-016 | As a user, I want to receive notifications for match, schedule, and chat updates. | Medium | In-app and optional email notifications. | PB-007 | 3 |
| PB-017 | As an admin, I want alerts when users are flagged or reported. | Medium | Notification dashboard updates in real-time. | PB-014 | 3 |

**8. Cross-Platform Experience**  
**Epic:** Responsive & Accessible UI

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **User Story** | **Priority** | **Acceptance Criteria** | **Dependencies** | **Effort (SP)** |
| PB-018 | As a user, I want a responsive interface that works on mobile and desktop. | High | Consistent layout across screen sizes. | PB-001  PB-017 | 8 |

# Client / Faculty Sign-off

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

X .

Name of Client/Rep/Professor