# Software Requirements Specification

# PRJ566 – Fall 2024

# PRJ566 – Team No: 4

# Name of Project:  Skill Swap Application

# Project Leader:

Diba Makki

**Last updated:**

Jan 27, 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 (ongoing) |
| |  |  | | --- | --- | | Week 04 | Added updates to: 1.3 Document Conventions | | |  |  | | --- | --- | | Week 04 | Added updates to: 1.3 Document Conventions | |
| |  |  | | --- | --- | | 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 document outlines the business case, project scope, objectives, and requirements for the development of the SkillSwap application. It serves as a reference for all stakeholders, providing a detailed roadmap to ensure the project’s successful execution.

## 1.5 Intended Audience

This document is intended for:

* Project stakeholders, including management and investors.
* Development teams involved in creating the SkillSwap application.
* Marketing teams responsible for launching and promoting the application.
* Any other parties engaged in the project lifecycle.

## 1.6 Group Agreement

**TEAM AGREEMENT**

**Team #: Group 4**

**Project Title: SkillSwap Application**

**Project Time Frame: 9 months**

**Team Members:**

Anton Zhuravlev   
Diba Makki

Dylan Dioneda

Gia Huy Nguyen

Lawrence Wan

**Team Leadership:**

Diba Makki

**Team Functions:**

* *We will share information through MS Teams, OneDrive, WhatsApp, 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

SkillSwap is being developed to address the lack of skill-sharing opportunities. It allows the users to exchange skills without monetary transactions.

**Problem Statement**

|  |  |
| --- | --- |
| The Problem of: | Informal skill-sharing |
| Affects: | Individuals looking for reliable exchanges |
| The impact of which is: | Opportunities, scheduling conflicts, and trust issues |
| A successful solution would: | Simplify the process, improve trust and create a lager skill-sharing community |

**Product Vision**

|  |  |
| --- | --- |
| For | Regular people |
| Who | Looking to trade skills |
| The Product Name | SkillSwap |
| That | Offers a secure and organized platform |
| Unlike | Current informal networks |
| Our product | Ensure skill verification, matchmaking, and an easy to use interface |

## 2.2 Stakeholders and Users

|  |  |
| --- | --- |
| Stakeholder Name/Identifier | Category |
| CEO (Chief Executive Officer) | Administration, Sponsor |
| Construction Manager and Scheduler | Administration, User  Needs accurate up to date information for costing and scheduling of project details |
| Administrative Assistant | User |
| Schedulers | User |
| Cost Accountant | User |
| Project Leader | Developers |
| Developers | Developers |

## 2.3 Functional Requirements

## 

## 2.4 Nonfunctional Requirements

Operational, Performance & Security Requirements

## 2.5 Project Scope

## 2.6 System Risks

|  |  |
| --- | --- |
| **Risk** | **Response** |
| The use of Voice Recognition adds complexity, introducing more ways to hack into your device | Implement various security measures and keep code modular in order to reduce complexity and increase security |
| Some of the team members are not familiar with Android Studio (IDE used to develop Android apps) | Hold team sessions to go over the IDE and how to initialize an APK for app testing /  or the whole team will meet twice a week to complete video tutorials related to . . . |
|  |  |
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## 2.7 Operating Environment

## 2.8 UI/UXD Interface Mock-ups

# Process and Data Modeling

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

### Activity Diagrams and 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 |
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## **3.3 Use Case Specifications with corresponding interface mockups:**

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

1- **Business Rules.**

**2- System Use Case Diagrams.**

**3- Use Case Descriptions.**

**4- Corresponding Mockups**

# Domain Class Diagram

# Database

# Work Breakdown Structure (WBS)

## 

## Work Breakdown Structure

Sample WBS:

Diagram

Description automatically generated

# Milestones and Acceptance Criteria

* 1. Milestone one

Definition

Acceptance Criteria

* …
* ….
* ….
  1. Milestone Two
  2. Milestone Three
  3. ..
  4. …
  5. …
  6. ..
  7. ..
  8. ...etc.

# Implementation Schedule

Implementation Schedule using MS Project (Waterfall)

OR

Product Backlog (Agile-Scrum)

# Client / Faculty Sign-off

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

X .

Name of Client/Rep/Professor