# Software Requirements Specification

# PRJ566 – Summer 2024

# PRJ566 – Team No: 3

# Name of Project:  Pets Crew Website

# Project Leader: Aryan Tuwar

**Last updated: 05/26/2024**

**Team Members:**

**1. Mehtab Singh Jagde**

**2. Aryan Tuwar**

**3. Margil Patel**

**4. Shubh Jani**

**5. Tapan Panjabi**

# TABLE OF CONTENTS

1. **Introduction/Overview - Document Information**
   1. **Document Authors**
   2. **Revision History**
   3. **Document Conventions**
   4. **Document Purpose**
   5. **Intended Audience**
   6. **Group Agreement**
2. **Project Overview**
   1. **Project Proposal**
   2. **Stakeholders and Users**
   3. **Functional Requirements**
   4. **Nonfunctional Requirements**
   5. **Project Scope**
   6. **System risks**
   7. **Operating Environment**
   8. **UI/UXD Interface Mockups**
3. **Process & Data Modeling**
   1. **UML Modeling: DFDs & Activity Diagrams**
   2. **Use Case Specification** 
      1. **Business Rules**
      2. **System Use Case Diagrams**
      3. **Use Case Description Tables**
4. **Domain Class Diagram**
5. **Database (Select either 5.1 or 5.2)**
   1. **RDBMS Artifacts**
      1. Scripts to create, populate, delete tables
      2. Data Dictionary
   2. **NoSQL Artifacts**
6. **Work breakdown Structure (WBS)**
7. **Milestones & Acceptance Criteria**
8. **Implementation Schedule (Agile/Waterfall)**
9. **Client / Faculty Sign-off**

# 1 - Introduction/Overview - Document Information

## 1.1 Document Authors

**1. Mehtab Singh Jagde**

**2. Aryan Tuwar**

**3. Margil Patel**

**4. Shubh Jani**

**5. Tapan Panjabi**

## 1.2 Revision History

|  |  |
| --- | --- |
| Week 03 | Sections of this document that were completed/updated this week, example: completed/updated  1. Introduction/Overview  1.1 Document Authors  1.2 Revision History (ongoing)  1.3 Document Conventions  1.4 Document Purpose  1.5 Intended Audience  1.6 Group Agreement  2. Project Overview  2.1 Project Proposal |
| Week 04 |  |
| Week 05 |  |
| Week 06 |  |
| Week 07 |  |
| Week 08 |  |
| Week 09 |  |
| Week 10 |  |
| Week 11 |  |
| Final |  |

## 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 is our roadmap for creating the Pets Crew Website. It lays out everything we need to know to build the site, including the features it should have (like user accounts and pet adoption forms) and the qualities it must maintain (like security and user-friendliness).

For the development team, it is a detailed guide to ensure we are building the right things in the right way. It answers important questions about what needs to be done and why it matters, helping the team stay focused and efficient.

For stakeholders, it provides a clear picture of what the final product will look like and what it will include. It sets expectations, outlines the project's scope to prevent any misunderstandings, and ensures everyone is aligned with the overall vision and goals.

In short, this document keeps everyone informed, aligned, and on track, helping us all work together to create a fantastic website for Pets Crew that meets everyone’s needs and exceeds expectations.

## 1.5 Intended Audience

**1. Project Team Members**

\* Developers: To understand the detailed functional and non-functional requirements, ensuring that they build the system to meet the specified criteria.

\* Testers: To create comprehensive test plans and cases based on the requirements outlined in this document to verify and validate the system's functionality.

\* Designers: To create system design and architecture that aligns with the specified requirements and user needs.

**2. Project Manager (Rotate)**

\* To track the project’s progress against the defined requirements and ensure that the project stays within scope, budget, and timeline.

\* To facilitate communication between different stakeholders and ensure everyone is aligned with the project goals.

**3. Stakeholders**

\* Clients and Sponsors: To ensure their needs and expectations are accurately captured and addressed in the system.

\* End Users: To understand how the system will meet their needs and what functionalities they can expect.

**4. Academic and Review Committees (Professor)**

\* To evaluate the comprehensiveness and accuracy of the project’s requirements and ensure that it meets academic standards.

## 1.6 Group Agreement

**TEAM AGREEMENT**

**Team #: 3**

**Project Title: Pets Crew Website**

**Project Time Frame: 2 Semesters**

**Team Members:**

**1. Mehtab Singh Jagde**

**2. Aryan Tuwar**

**3. Margil Patel**

**4. Shubh Jani**

**5. Tapan Panjabi**

**Team Leadership: Aryan Tuwar(Rotating)**

**Team Functions:**

* *We will share information through MS Teams, OneDrive, WhatsApp, e-mail and meetings.*
* *Weekly Milestones will be due 11:59 Saturday of the wek that is due*
* *Each member will be assigned task based on their strengths and team requirements*

**Team Meetings: Weekly – Every Thursday**

**Team Problems:**

**In case of problems, the team will decide by voting.**

**Team Commitment: we commit to collaborative excellence, timely communication, and unwavering dedication to delivering a superior Pets Crew Website that exceeds expectations, fosters inclusivity, and enriches the lives of pet owners and service providers alike**

**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**

|  |  |
| --- | --- |
| **Aryan Tuwar** | **05-25-2024** |
| **Margil Patel** | **05-25-2024** |
| **Mehtab Singh Jagde** | **05-25-2024** |
| **Shubh Jani** | **05-25-2024** |
| **Tapan Panjabi** | **05-25-2024** |

ShapeShapeShapeShapeShapeShapeShapeShape

# 2 - Project Overview

## 2.1 Project Proposal

**Problem Statement**

|  |  |
| --- | --- |
| The Problem of: | Lack of a Centralized Platform for Pet Services |
| Affects: | Concerning Pet owners and pet service provider |
| The impact of which is: | Inefficiency and trust issues |
| A successful solution would: | Streamlined access, enhanced trust, efficient management. |

**Product Vision**

|  |  |
| --- | --- |
| For | Pet owners seeking convenience, service providers growth. |
| Who | Centralized platform for pet services management. |
| The Product Name | Pets Crew is a pet services provider and platform |
| That | Effortlessly connect with trusted pet services. |
| Unlike | Fragmented online directories lacking centralized booking and review systems. |
| Our product | Unified platform offering seamless booking, trusted reviews, and community engagement |

## 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 . . . |
|  |  |
|  |  |
|  |  |
|  |  |

## 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 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## **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