**Requirements List**

**PO1: Petswala**

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| **Content** | **Totals** | **Obtained** |
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| Github folder structure | 10 | 5 |
| Late submission penalty | -20 |  |
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# Introduction

<Give an overview of the project here. The overview must highlight the overall objectives of the project and its potential users.>

**Document Purpose**

This document is the system requirements specification for an online web-based platform for pet owners. Our product aims to provide pet owners and others in the veterinary or pet service industry with an online platform where both service providers and customers can interact and engage in commerce. The document will provide an overview of what our web application would offer, including but not limited to its functionalities, constraints, assumptions and dependencies.

**Product Scope**

We will be developing a web application which registers pet owners, vets, other pet service and accessories providers and possibly pet experts, and allows them to interact based on their needs. For instance, pet service providers and vets would be able to advertise their services and products and pet owners would be able to contact these service providers as well as connect with other pet owners for any purpose such as breeding, purchasing or selling.

**Potential Users**

As mentioned earlier, potential users of the web-application will be key characters in the pets communities: pet owners, service providers, people interested in getting a pet, and as well as application and business administrators.

# System Actors

<List down the actor names and give a 2-3 lines description of the role of each actor>

| **Actor Name** | **Description** |
| --- | --- |
| General User | Users can find nearby service providers. They can post pets or accessories to sell in the marketplace. They can give services related feedback, ratings and reviews. They can create posts for articles and videos on the blog. |
| Administrator | Admins can add/edit/delete Service Provider profiles, verify and approve service providers. They supervise the marketplace and provide feedback to user complaints. |
| Rescue Services | Rescue services can deal with user reports and resolve them. They can be contacted by the users urgently in case of emergencies. They can also post on the blog. |
| Service Providers | Service providers can advertise their services, sell products in the marketplace and post on the blog.  For instance, Pet shops can provide their location, the pets they have, and their prices so that the users can contact them in case they need to buy a pet. |
| Veterinary Doctors | Veterinary doctors can provide their location, services and timings so the users can contact them. |

[Wouldn’t there be any vets and pet owners? You mentioned these actors in the introduction section. There are also formatting problems with the text above.]

Sir, we think that the “general user” actor will be able to cater to the pet owners too.

# Functional Requirements

<Write system requirements from users’ (actors) perspective. Actor names have been highlighted in the sample requirements below. You may group requirements according to actors or modules>

| **Requirements** | |
| --- | --- |
| **Sr#** | **Requirement** |
| 1 | As a general user I want an app that facilitates taking care of my pet. Where I can login and visit the blog. I can browse the marketplace for things that I might require for my pet. I need contact information of rescue services in case of emergencies. I need the location of local vets and service providers. I want to be able to rate and review the aforementioned vets and services. I want to be able to search for accessories and services that I might require. I want to be able to pet related events on the calendar. |
| 2 | As an administrator I need the highest privileges required for managing services, marketplaces and user interactions. I need the ability to add/edit/delete veterinary profiles. I need the ability to verify and approve service providers in order to filter spam. I need the ability to edit or remove offensive posts from the blog. |
| 3 | As a service provider I need to get in touch with interested clients conveniently and offer my services through the app. I need access to the marketplace to advertise my services. I want to register with the role of service provider and display my location, contact information, and rates for the users on the marketplace. I want to be able to add/edit my advertised services. I want my reviews and ratings to be displayed alongside my services. |
| 4 | As a rescue service, I need to deal with user reports, post on the blog and get in touch with users. I need the ability to register my team. I want to be able to receive reports by the users and resolve them. I want to display my location, contact information to the users. I want to be able to contact the users in case of an emergency. I want a dashboard with the user reports. |
| 5 | As a veterinary doctor, I want to display my location, contact information and the services I am offering to the users. I want to display my timings and also want the users to rate and review me. I also want access to the blog in order to post helpful tips and medical advice. |

[You must list down requirements clearly. Right now, you have given a very vague description of your system, which is probably more suitable in the introduction section. Each item in the above list must give one clear feature/functionality that the system must have. Rewrite this section completely.]

# Non-functional Requirements / Quality Attributes

<Requirements must be testable>

| **Sr#** | **Requirements** |
| --- | --- |
| 1 | The system will process search requests in less than 3 seconds. |
| 2 | The system should have a secure database and should be protected from SQL injection attacks using form data input validation, parameterized queries, etc. This should prevent breach in sensitive data and will provide a more secure experience to our users.  [Be more specific. For instance, how would you make the database secure?] |
| 3 | Modified data in a database should be updated for all users accessing it within 3 seconds. If any data variable has been modified, the webpages for all the users should reflect that within 5 seconds.  [Do you mean the update requests coming from the web browser?] |
| 4 | The system should secure user identity and preventative measures should exist against potential security breach. The passwords will be hashed, and password change functionality will be provided to the users. The user will be able to contact the admin and disable his/her account in case of breach.  [Be more specific. For instance, which security breaches will be handled by the system? It is not good idea to leave requirements open for multiple interpretations. ] |
| 5 | Anonymous users are not allowed to access and manipulate data. Only authenticated users are allowed to manipulate and access the database. |
| 6 | SSL Certification must be satisfied, which secures an internet connection and safeguards data which is being sent between server and browser. |
| 7 | The system must be fully operational at all times unless scheduled maintenance is required for which downtime will be pre-specified. |
| 8 | Users must login and be authorized in order to access their account. Admins and every other actor must also follow the authentication procedure in order to access their respective accounts. |
| 9 | Admins will have administrator privileges and the most access rights on the system. Every actor will act within its domain and cannot access other rights. Administrator will be responsible for granting or revoking these rights. |
| 10 | The system must automatically log out all customers after a period of inactivity. |
| 11 | Users can only place orders once they provide their relevant information. |
| 12 | The system shall not be shut down for maintenance more than once in a 24-hour period |
| 13 | The system shall provide a uniform look and feel between all the web pages. |
| 14 | The system should have an easy to use GUI, so that all functionality is self-explanatory and intuitive. |

[Add requirements for authorization as well. For instance, each user must have some access rights and the system should not allow violation of these access rights. Access rights may be granted or revoked as needed.]

# Who Did What?

| **Name of the Team Member** | **Tasks done** |
| --- | --- |
| Muhammad Aaish Javed | Introduction, Non-functional Requirements |
| Muhammad Ibrahim Bhalli | Functional Requirements, Non-functional Requirements |
| Syed Raza Abbas | System Actors |
| Muhammad Tayyab | Nothing |

# Review checklist

Before submission of this deliverable, the team must perform an internal review. Each team member will review one or more sections of the deliverable.

| **Section** **Title** | **Reviewer Name(s)** |
| --- | --- |
| Introduction | Muhammad Ibrahim Bhalli, Syed Raza Abbas, Muhammad Tayyab |
| Actors | Muhammad Aaish Javed, Muhammad Ibrahim Bhalli, Muhammad Tayyab |
| Functional Requirements | Muhammad Aaish Javed, Syed Raza Abbas, Muhammad Tayyab |
| Non-functional requirements | Muhammad Ibrahim Bhalli, Syed Raza Abbas, Muhammad Aaish Javed |