Horseland Resort Web Application

Version <1.0>

Revision History

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| 26/05/25 | 1.0 | Develop the Project Vision | Sofia Dobra |
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# Introduction

The purpose of this document is to collect, analyze, and define the high-level needs and features of the *Horseland Resort Web Application*. This system is designed to serve the operational and management needs of horse resort farms by providing a secure, role-based platform for managing users, horses, and related records. It focuses on the essential capabilities required by administrators, breeders, and caretakers, as well as the reasons these needs exist. The detailed behaviors and implementation specifics are further elaborated in the use-case and supplementary specification documents.

The introduction of this Vision document provides a structured overview of the entire document. It includes the purpose and scope of the system, relevant definitions and abbreviations, references to supporting materials, and a section-by-section guide to what the reader can expect in the rest of the Vision document.

## Purpose

The purpose of this Vision document is to define the strategic objectives and key functionalities of the *Horseland Resort Web Application*. This document serves as a foundation for aligning stakeholders, system designers, and developers on the high-level goals of the project. It outlines the application's intent to provide a secure, role-based platform tailored to the management of horse breeding operations, including user authentication, horse profiling, data integrity, and administrative control. This Vision guides the development process and informs the use-case and supplementary specifications.

## Scope

This Vision document pertains to the *Horseland Resort Web Application*, a full-stack system developed to support the management of horse breeding facilities. The project includes both a backend (Spring Boot with MySQL) and a frontend (React with TypeScript) and is designed to handle core functionalities such as user authentication, role-based access control, horse record management, and administrative monitoring.

The document defines the high-level requirements and expectations of the system and serves as a guiding reference for the design, development, and validation of features. It influences software architecture decisions, user experience design, and security implementations across the application.

## Definitions, Acronyms, and Abbreviations

The following terms and acronyms are used throughout this document and pertain to the domain of horse breeding and user management within the *Horseland Resort Web Application*:

* **Resort**: A breeding facility for horses, typically including stables, paddocks, and specialized management personnel.
* **Horse**: The primary subject of the application; horses have individual profiles containing information such as breed, age, medical history, and ownership.
* **Breed**: A classification of horses based on lineage and characteristics. This field is used in horse profiles to track pedigree.
* **Instructor**: A user with the role of overseeing training activities or assisting with the management of horses and resortents.
* **Resortent**: A user enrolled in riding lessons or training programs at the resort facility. They may be assigned to specific horses for practice or care.
* **Caretaker**: A user responsible for the day-to-day wellbeing of the horses, including feeding, grooming, and basic health checks.
* **Administrator**: A privileged user who manages the application, including creating user accounts, assigning roles, and maintaining system integrity.
* **Profile**: A digital record containing personal or biological details about a user or a horse within the application.

## References

The following documents and sources have been referenced in the preparation of this Vision document:

* ***Horseland Resort* Supplementary Specification Document**

Describes non-functional requirements and design constraints relevant to the application.

* **Use-Case Model for *Horseland Resort***

Provides detailed scenarios and interactions between users and the system.

* **Equestrian Management Practices – Industry Guidelines (2022 Edition)**

Published by the International Equestrian Federation. Reference for real-world workflows and role definitions.

* **Local Data Protection Guidelines**

Includes regional regulatory requirements for handling user and animal data securely.

Additional technical documentation and architectural details are available in internal design files and development notes maintained by the project team.

## Overview

This Vision document outlines the purpose, scope, and goals of the *Horseland Resort Web Application*. It begins with introductory information to establish the context and terminology used throughout the project. Section 2 presents the system’s positioning by defining the problem being addressed and how the product stands apart from alternatives. Section 3 identifies stakeholders and users, detailing their responsibilities and expectations. Section 4 summarizes the key product requirements, including technical constraints, supported environments, and performance expectations. Together, these sections provide a comprehensive view of the application’s purpose and direction.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | inefficient and fragmented management of horse breeding data and user roles |
| affects | staff at equestrian resorts, including administrators, instructors, and caretakers, |
| the impact of which is | disorganized records, security issues, manual scheduling, and lack of accountability; |
| a successful solution would be | a secure, centralized, role-based web platform that allows easy access to up-to-date horse profiles, user assignments, and administrative functions from any device. |

## Product Position Statement

|  |  |
| --- | --- |
| For | resort farms, riding schools, and equestrian training centers |
| Who | need a secure, centralized system to manage horses, users, and daily operations |
| The *Horseland Resort Web Application* | is a web-based management platform |
| That | provides role-based access, horse record management, user coordination, and operational oversight |
| Unlike | spreadsheets, paper records, or generic administrative tools |
| Our product | is purpose-built for equestrian environments, integrating resort-specific workflows and security protocols to meet real-world user needs. |

# Stakeholder and User Descriptions

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| System Administrator | Manages the technical infrastructure and access control | Maintains server uptime, manages roles and permissions, enforces security |
| Horse Owner | The individual or entity owning one or more horses | Oversees horse records, breeding details, and may assign caretakers or access |
| Instructor | Teaches resortents and manages their riding or training sessions | Schedules lessons, updates training logs, monitors progress |
| Resortent | Learns horse care or riding under supervision | Participates in assigned lessons, follows instructions, provides feedback |
| Caretaker | Handles daily horse care and stable operations | Feeds, grooms, monitors horse health and behavior, updates logs |
| Veterinarian | Provides professional medical care to the horses | Diagnoses and treats illnesses, administers vaccinations, logs health records |
| Development Team | Implements and maintains the application | Designs, develops, tests, and updates the system |

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Administrator | A privileged user with system-wide access | Manages users, assigns roles, oversees horse and facility data | System Administrator |
| Client | A general user role encompassing instructors and resortents | Views and updates horse information, participates in activities | Instructor, Resortent, Caretaker |

## User Environment

Users interact with the system primarily through modern web browsers on desktop computers, tablets, and mobile phones. Administrators typically access the platform from office environments, while caretakers and resortents may interact with the system from outdoor or stable areas. Task cycles range from 2–10 minutes and involve actions such as updating records, reviewing schedules, or submitting activity logs. The platform supports responsive design to ensure accessibility across devices. The current version supports all major browsers (Chrome, Firefox, Safari, Edge), and no integration with third-party applications is required at this time.

# Product Requirements

* **Platform**: Web-based (React frontend and Spring Boot backend)
* **Database**: MySQL
* **Authentication**: Role-based access using secure login mechanisms
* **Performance**: API responses must complete within 500ms under typical load
* **Usability**: Fully responsive UI for desktop and mobile users
* **Browser Compatibility**: Chrome, Firefox, Safari, Edge (latest versions)
* **Security**: All user actions secured with authentication; sensitive data stored encrypted
* **Accessibility**: UI designed with clear navigation, labels, and mobile accessibility in mind
* **Availability**: System uptime target is 99.5%, excluding scheduled maintenance
* **Scalability**: Application must support facility growth without degradation in performance