Botanical Admin Doc - V1.0 - 250424

Admin Panel Requirements Document

1. Introduction

This document outlines the requirements for the development of an admin panel for a Botanical Garden application. The admin panel will be used to manage facilities, tickets, zones, plants/trees, and users.

2. User Roles and Permissions

The admin panel will support three user roles with varying levels of access and functionality:

- **Super Admin: APP & Dashboard**
  - Access to all features on both mobile app (limited) and dashboard (full access).
  - Can manage all aspects of the system, including adding, editing, and deleting facilities, tickets, zones, plants/trees, and users.
  - View reports and analytics.
- **Driver/Garden Guide: APP only**
  - Access to mobile app only.
  - View information about zones and plants/trees, including location data.
  - Ability to see detailed information about plants/trees and zones based on geolocation (requires integration with mobile app).
- **User/Customer: APP only**
  - Can see all details of the garden:
    - Facilities list
    - Plants list
    - Zones list and details
    - Ticket details
  - Cannot modify any data through the mobile app.

3. Data Model

Note - You can add or change in the technical part as per the latest development strategies these below data is high level overview.

3.1 Facilities

Field Name	Description	Data Type	Mandatory
Facility ID	Unique identifier for the facility	Integer	Yes
Name	Name of the facility	String	Yes
Description	Description of the facility	Text	Yes
Image URL	URL of the facility image	String	Yes
Geolocation	Geographic coordinates of the facility	[Lat, Lng]	Yes
Created Date	Date and time the facility was created	DateTime	Yes
Modified Date	Date and time the facility was last modified	DateTime	Yes
Extra Fields	Additional user-defined fields (optional)	Varies	No

3.2 Ticket Details

Field Name	Description	Data Type	Mandatory
Ticket ID	Unique identifier for the ticket	Integer	Yes
Ticket Name	Name of the ticket (Male, Female, Child, Senior Citizen etc.)	String	Yes
Description	Description of the ticket (benefits, inclusions)	Text	Yes
Rules & Terms	Rules and regulations governing the ticket usage	Text	Yes
Ticket Cost	Price of the ticket	Decimal	Yes
Created Date	Date and time the ticket was created	DateTime	Yes
Modified Date	Date and time the ticket was last modified	DateTime	No
Extra Fields	Additional user-defined fields (optional)	Varies	No

3.3 Zones

Field Name	Description	Data Type	Mandatory
Zone ID	Unique identifier for the zone	Integer	Yes
Zone Name	Name of the zone	String	Yes
Image URL	URL of the zone image	String	Yes
Video URL	URL of a video showcasing the zone (optional)	String	No
Description	Description of the zone	Text	Yes
Specialty (Opt.)	Optional field for highlighting a zone's unique feature	String	No
Created Date	Date and time the zone was created	DateTime	Yes

Field Name	Description	Data Type	Mandatory
Modified Date	Date and time the zone was last modified	DateTime	No
Extra Fields	Additional user-defined fields (optional)	Varies	No

3.4 Trees/Plants

Field Name	Description	Data Type	Mandatory
Plant ID	Unique identifier for the plant/tree	Integer	Yes
Plant Name	Name of the plant/tree	String	Yes
Plant Image URL	URL of the plant/tree image	String	Yes
Plant Description	Description of the plant/tree, including its characteristics and significance	Text	Yes
Geolocation	Geographic coordinates of the plant/tree	String	Yes
Botanical Name	Scientific name of the plant/tree (optional)	String	Yes
Specialty (Opt.)	Optional field for highlighting a plant/tree's unique feature, e.g., endangered species	String	No
Created Date	Date and time the plant/tree record was created	DateTime	Yes
Modified Date	Date and time the plant/tree record was last modified	DateTime	Yes
Extra Fields	Additional user-defined fields for specific plant/tree information (optional)	Varies	No

3.5 Users

Field Name	Description	Data Type	Mandatory for all Roles	Mandatory for Specific Role
User ID	Unique identifier for the user	Integer	Yes	Yes (all roles)
User Role	Role of the user (Super Admin, Driver/Garden Guide, User/Customer)	String	Yes	Yes (all roles)
Name	User's full name	String	Yes	Yes (all roles)
Email	User's email address	String	Yes	Yes (all roles)
Phone Number	User's phone number (optional)	String	No	No
Password	Securely hashed	String	Yes	Yes (all roles)

Field Name	Description	Data Type	Mandatory for all Roles	Mandatory for Specific Role
(Hashed)	password for login			
Created Date	Date and time the user account was created	DateTime	Yes	Yes (all roles)
Modified Date	Date and time the user account was last modified	DateTime	No	No
Extra Fields	Additional user-defined fields for specific user information (optional)	Varies	No	No

4. Admin Panel Functionality

4.1 Facilities Management

- Add, edit, and delete facilities.
- Upload facility images.
- Manage facility descriptions and details.
- View facility geolocation on a map.

4.2 Ticket Management

- Add, edit, and delete ticket details.
- Manage ticket names, descriptions, rules & terms, and costs.

4.3 Zone Management

- Add, edit, and delete zones.
- Upload zone images and videos.
- Manage zone descriptions, specialties, and geolocation.

4.4 Trees/Plants Management

- Add, edit, and delete plants/trees.
- Upload plant/tree images.
- Manage plant/tree descriptions, botanical names , specialties (optional), and geolocation.

4.5 User Management

- View and manage user information for all roles.
- Filter and search users based on various criteria (role, name, etc.).
- Reset user passwords (if applicable).

4.6 Reporting and Analytics

- Generate reports on various aspects like ticket sales, facility usage.
- General Reports of data records - with date filters and Export functionality
- Need a Dashboard to analyze all counts and data at one place.

5. Technical Considerations

- Secure user authentication and authorization mechanisms.
- Responsive design for optimal viewing on desktop and mobile devices.
- Data validation and error handling.
- Integration with mobile app for geolocation functionality (Driver/Garden Guide).

6. Next Steps

- This document serves as a starting point for further discussion and refinement of requirements.

7. Revision History

Version	Date	Author	Description
V 1.0	2024-04-25	Prasad Pawar	Initial Draft - before SRS - based on Mr. Roshan Discussion done on call and requirements gathered.

Please note: This document is a high-level overview. As we working with client on the SRS documentation and approvals so few things may get added in the same and can be removed so please do take in the consideration.