Software Requirements Specification

(SRS) Document

LovelyLawns

06/12/2024

Version 1

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## Project General Description

The objective of the Lovely Lawns web application is to allow users to connect with other users who share an interest in taking care of plants, their lawns, and/or gardens. Lovely Lawns will allow users to share or post any question/s related to the application’s objective, stated above, for other users to answer and vice versa.

## Product Features

Lovely Lawns is designed to help connect users with the same interest. Below are the features and functions that allow the user to do so:

Content Preference: Users can like/subscribe to certain posts or forums which will be more readily accessible on the right sidebar so they can revisit their favorite forums and see new updates on them.

Personal Profile: Users can create custom names and profiles which will also display their own created posts/forums as well as the forums they are subscribed to reflect their preferences.

Creating Posts: Users can create their own posts or forums in which they can obtain help from people more experienced in a certain subject or in a forum they could have a “meeting place” for people interested in a particular flower for example. The users would be able to communicate with many other users by creating their own posts and replying to others.

## Functional Requirements

- FR0: The app will allow all users to create a register.

- FR3: The app will allow users to save posts.

- FR5: The app will allow administrators to delete posts and forums.

- FR6: Accounts will be protected by login pages with passwords.

- FR7: Administrators will be assigned.

-FR8: The app will allow users and providers to reply to forums.

-FR9: Administrators will be able to delete forums and posts.

-FR10: Administrators will be able to post announcements that will be pinned to the top of the page. They will also be able to delete the announcement.

## Non-Functional Requirements

- NFR0: Will generate a list of posts and generate more as the user scrolls so that the system can avoid being overwhelmed

- NFR1: Users can view their liked/subscribed posts or forums quickly on the right sidebar and that webpage will display the posts and most recent replies to them quickly.

- NFR2: The replies of other users will be visible after refreshing the page.

- NFR3: When the user refreshes the page, the loading time should take no more than five seconds.

## Scenarios

* 1. Users -Syed
     1. **Create Account**
* **Initial Assumption:** The user does not have an account.
* **Normal:** The user can create an account using their email address and a password. They will be asked to provide a username for their account.
* **What Can Go Wrong:** The user provides an invalid email address.
* **System State of Completion:** The user will have created an account for LovelyLawns using their email address and password.
  + 1. **Login**
* **Initial Assumption:** The user has an account but is not signed in.
* **Normal:** The user will enter their email address and password associated with their account.
* **What Can Go Wrong:** The user enters in an invalid email address and/or password.
* **System State of Completion:** The user will have entered in the correct email address and password associated with their account and see the home page.
  1. Provider – Jaskaran
     1. **Login**
* **Initial Assumption:** The provider has an account but is not signed in.
* **Normal:** The provider will enter their email address and the password associated with their account.
* **What Can Go Wrong:** The provider enters in the wrong email address and/or password.
* **System State of Completion:** The provider will have entered in the email address and password associated with their account and see the home page.
  + 1. **Create Account**
* **Initial Assumption:** The provider does not have an account.
* **Normal:** The provider can create an account using their email address and a password. They will be asked to provide a username for their account.
* **What Can Go Wrong:** The provider enters in an invalid email address.
* **System State of Completion:** The provider will have created an account for LovelyLawns using their email address and password.
  + 1. **Modify Account**
* **Initial Assumption:** The provider has an account, is logged in.
* **Normal:** Provider changes account info i.e.: name, bio
* **What Can Go Wrong:** Mistakenly change something they didn't want to (ask to save changes if changes were made)
* **System State of Completion:** Provider will have modified their account and saved the new information.
  + 1. **Reply to post/forum**
* **Initial Assumption:** The provider has an account, is logged in, and viewing a post/forum.
* **Normal:** The provider can click the reply button to respond to the post.
* **What Can Go Wrong:** The provider did not intend hit the reply button. There will be a cancel button that make sure the provider intends to cancel the reply.
* **System State of Completion:** The provider will have responded to the post. Their reply will be visible.
  1. Administrator – Victor
     1. **Delete Posts**
* **Initial Assumption:** Administrator has an account and is logged in.
* **Normal:** Admin selects a post to delete and removes it from the list of forums/posts
* **What Can Go Wrong**: Deleting the wrong post. There will be a pop-up to ensure that the admin intends to delete the post.
* **System State of Completion:** Admin deletes post, and it is removed from the list and is no longer visible.
  + 1. **Delete Forums**
* **Initial Assumption:** Administrator has an account and is logged in.
* **Normal:** Admin selects a forum to delete
* **What Can Go Wrong:** Admin removing the wrong forum. There will be a pop-up to ensure that the admin wants to delete the forum.
* **System State of Completion:** Admin deletes the forum, and it is no longer visible.
  + 1. **Post Announcements**
* **Initial Assumption:** Administrator is on the admin home page
* **Normal:** Administrator posts an announcement that is pinned at the top visible by all users.
* **What Can Go Wrong:** The administrator clicked to make an announcement but did not mean to. There will be a cancel button that asks if the administrator intends to cancel the announcement.
* **System State of Completion:** The administrator will have posted an announcement pinned at the top visible to all users.
  + 1. **Delete Users**
* **Initial Assumption:** Administrator is at the admin home page.
* **Normal:** Administrator will be able to delete users
* **What Can Go Wrong:** Administrator deletes the wrong user. There will be a pop-up that asks if the administrator intends to delete the user
* **System State of Completion:** The administrator will have deleted the user.

Design Document

LovelyLawns

06/12/2024

Jaskaran Chahal, Syed Hassan, Victor Lor

## Project Overview

The objective of the Lovely Lawns web application is to allow users to connect with other users who share an interest in taking care of plants, their lawns, and/or gardens. Lovely Lawns will allow users to share or post any question/s related to the application’s objective, stated above, for other users to answer and vice versa.

Users will be able to create post and/or forums that will be visible to other users. Other users can then reply to the post. The administrator will be responsible for deleting inappropriate posts and/or comments. The administrator will also have the ability to create announcements that will be pinned to the top.

## Use Case Models

A diagram of a user flow

Description automatically generated

## State Machine Diagram

1. User – Syed Hassan

A diagram of a company

Description automatically generated

1. Provider – Jaskaran Chahal

A diagram of a flowchart

Description automatically generated

1. Administrator – Victor Lor

A diagram of a company

Description automatically generated

## Database Schema

A diagram of a computer

Description automatically generated

## Software Architecture – MVC

A diagram of a computer

Description automatically generated

### Scenarios With Screenshots

1. User – Syed

Guest home:

A screenshot of a computer

Description automatically generated

User clicks Register:

A screenshot of a computer

Description automatically generated

User home after registration:

A screenshot of a computer

Description automatically generated

1. Provider – Jaskaran

A screenshot of a computer

Description automatically generated

Example of what would show up:

A screenshot of a computer

Description automatically generated

(We think that there is a error with the API itself going to the Trefle API site gives a connection not secure warning).

A computer screen with text

Description automatically generated

1. Admin – Victor

Admin home page:

A screenshot of a computer

Description automatically generated

What the admin sees after clicking on “Users”

A screenshot of a computer

Description automatically generated

What the admin sees after clicking on “Forums” (The other manage buttons have similar views):

A screenshot of a computer

Description automatically generated

Pop-up when the admin clicks the delete button (same for users, posts, and announcements):

A screenshot of a computer

Description automatically generated

What the admin sees after clicking the “Create Announcement” button from the home page:

A screenshot of a green and white card

Description automatically generated

After creating the announcement, it will go to the announcement list page. After clicking the home button, the announcement that was created will show up in the home page (ID: #9).

A screenshot of a computer

Description automatically generated