

Web Engineering Project

OurGarden

Members:

Ghala Saad Al-Qarni 444000585, Groub 3 Lap

Aya Adnan Babkooor 444002180, Groub 1 Lap

Rema Khaled Al-Ghamdi 444001279, Groub 4 Lap

Table of Contents

Table of Contents.....	2
1. Section1: Project Specification.....	3
1.1. Summary of the website and its primary objective.....	3
1.2. Primary audience for the Website.....	3
1.3. Site organization:.....	3
1.4. Tools.....	5
2. Section 2: Website Organization.....	6
3. Section 3: Testing.....	8
4. Section 4: Conclusion.....	11

○ **Section1: Project Specification:-**

● **1.1. Summary of the website and its primary objectives:**

Our website, OurGarden, serves as a platform to encourage urban gardening and sustainable living. It provides employees with tips and advice on creating and maintaining their own gardens. OurGarden aims to foster a community of gardening enthusiasts by offering resources, user reviews, and interactive content to support and inspire sustainable living practices.

Primary Objectives:

- To provide comprehensive information and resources on urban gardening.
- To promote sustainable living practices among employees and the community.
- To create an interactive platform where users can share their gardening experiences and tips.
- To build a supportive community of gardening enthusiasts through user reviews and forums.

● **1.2. Primary audience for the Website:**

The primary audience for OurGarden includes:

- Employees of the foundation who are interested in urban gardening.
- Individuals seeking advice on sustainable living practices.
- Gardening enthusiasts looking for a community to share tips and experiences.

● **1.3. Site organization:**

Navigation Bar:

- Contains the website name on the left corner.

- Four labels in the right corner: Home, Sign In, Plant, Community.

Pages and Content:

- Home:
 - **Description:** Provides information about the website and its purpose.
 - **Content:** Introduction to urban gardening and sustainable living.
- Sign In:
 - **Description:** User authentication page.
 - **Content:**
 - Sign-in form with fields for email and password.
 - Labels: "Do not have an account? Create account" and "Forgot password."
- Create Account:
 - **Description:** User registration page.
 - **Content:**
 - Registration form with fields for username, email, and password.
 - Labels "Already have an account? Sign in."
- Plant:
 - **Description:** Information about different flowers and plants.
 - **Content:**
 - Images of plants.
 - Detailed information about each plant.
 - Educational videos related to plant care.
 - Text links to external websites for further reading.

- **Community:**
 - **Description:** User reviews and community interaction.
 - **Content:**
 - User reviews about the website (design element, not yet functional).
 - Form for users to submit their reviews.
 - Button labeled "Join" that redirects to the Home page.

- **Artifacts:**
 - **Images:** Pictures of various plants and flowers.
 - **Videos:** Educational videos about plant care.
 - **Forms:** Sign-in and registration forms, review submission form.

- **1.4. Tools:**

- **HTML:** For structuring the content.
- **CSS:** For styling the website and ensuring a consistent look and feel across all pages.
- **JavaScript:** For adding interactivity, such as form validations and dynamic content loading.
- **Forms:** For user authentication and feedback submission
- **External Links:** For providing additional resources through text links on the Plant page.

By organizing the website in this manner, OurGarden ensures an intuitive user experience where all necessary information is easily accessible, and users can navigate seamlessly without relying on their browser's back button.

○ **Section2: Website Organization:-**

We organized OurGarden to enhance user experience and ensure that the website is intuitive and easy to navigate. Here are the key reasons behind our design choices:

1. Navigation Bar:

- **Visibility and Accessibility:** The navigation bar is consistently placed at the top of every page, making it easy for users to access all main sections (Home, Sign In, Plant, Community) from anywhere on the site. This reduces the need for users to rely on the browser's back button, providing a seamless navigation experience.
- **User Guidance:** By clearly labeling the sections, users can quickly identify and navigate to their desired content, improving the overall usability of the website.

2. Content Placement:

- **Home Page Focus:** Placing key information about the website's purpose and benefits on the Home page helps users quickly understand the site's objectives and encourages them to explore further.
- **Centralized Forms:** On the Sign In and Create Account pages, forms are centrally located to ensure they are easy to find and use, facilitating smooth user registration and login processes.

3. Use of Visual and Interactive Elements:

- **Engaging Content:** On the Plant page, we used images and videos to provide detailed information about various plants. This visual approach makes the content more engaging and helps users learn more effectively.
- **Interactive Features:** Incorporating forms on the Community page allows users to submit reviews and feedback, fostering a sense of community and interaction.

- Code for Section 2:

1. Navigation Bar:

```
<header class="main-header">
  <h2 class="logo">OurGarden</h2>
  <nav class="navigation">
    <a href="#" id="home-button" class="active">Home</a>
    <a href="#" id="sign-in-button">Sign In</a>
    <a href="#" id="plant-button">Plant</a>
    <a href="#" id="community-button">Community</a>
  </nav>
</header>
```

2. Images and Video:

```
<img id="plant-img" src="" alt="Plant Image">
<p id="plant-desc">Plant description will appear here.</p>
<h3 id="video-title">video title shown here</h3>
<video id="plant-video" controls>
  <source src="" type="video/mp4">
  Your browser does not support the video tag.
</video>
```

3. JavaScript code to show content:

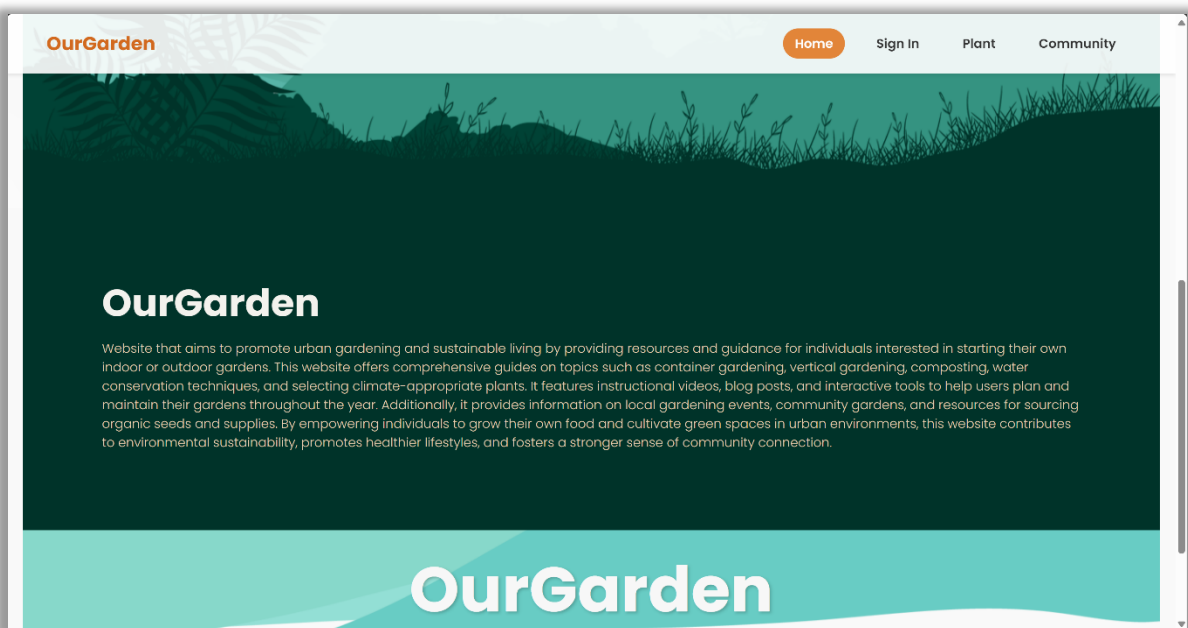
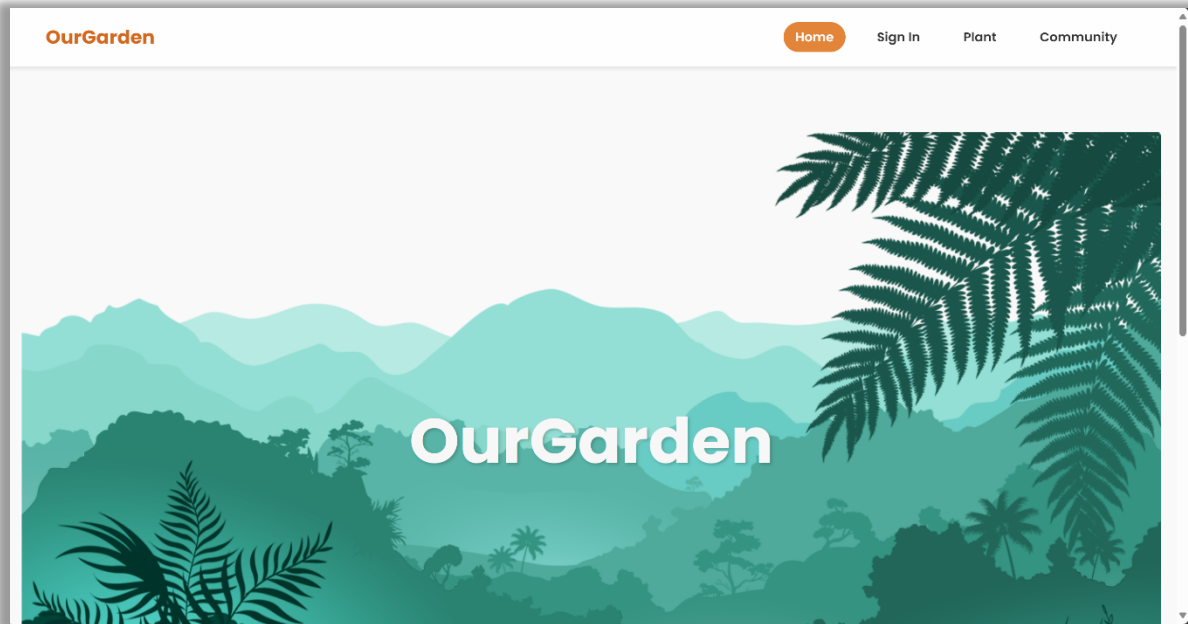
```
// Functions to show/hide sections
function showSection(section) {
  const sections = [homeSection, signInSection, createAccountSection, forgotPasswordSection, plantListSection, communitySection];
  sections.forEach(sec => sec.classList.remove('active'));
  section.classList.add('active');

  // Update active link
  const navLinks = document.querySelectorAll('.navigation a');
  navLinks.forEach(link => {
    if (link.getAttribute('id') === `${section.id}-button`) {
      link.classList.add('active');
    } else {
      link.classList.remove('active');
    }
  });
}
```

○ Section3: Testing:-

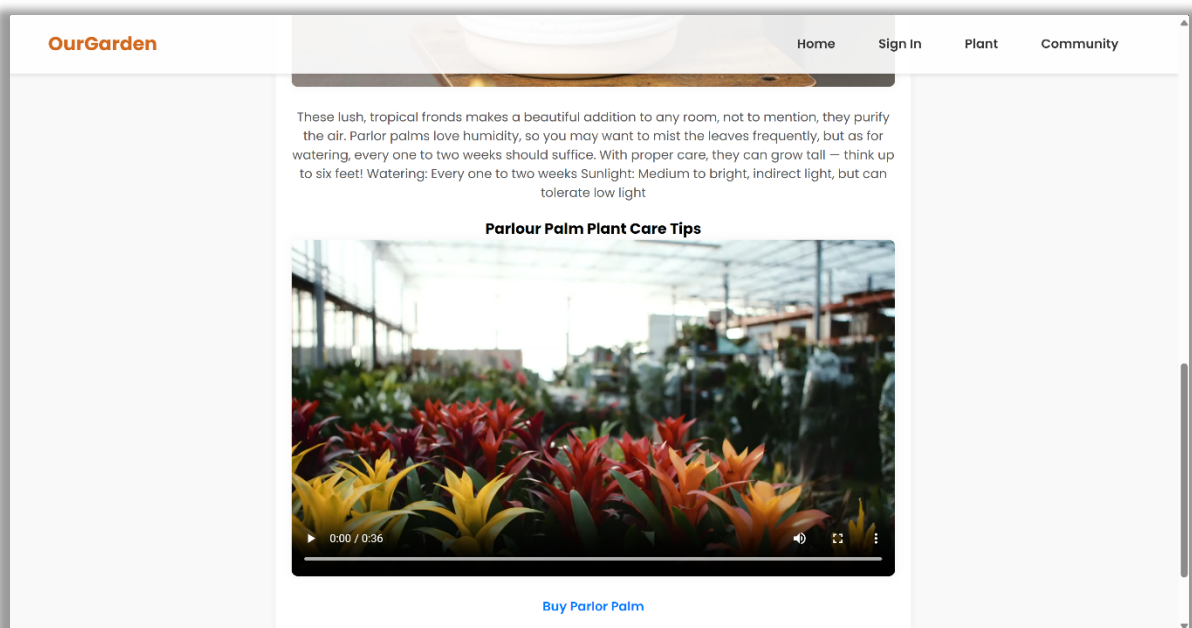
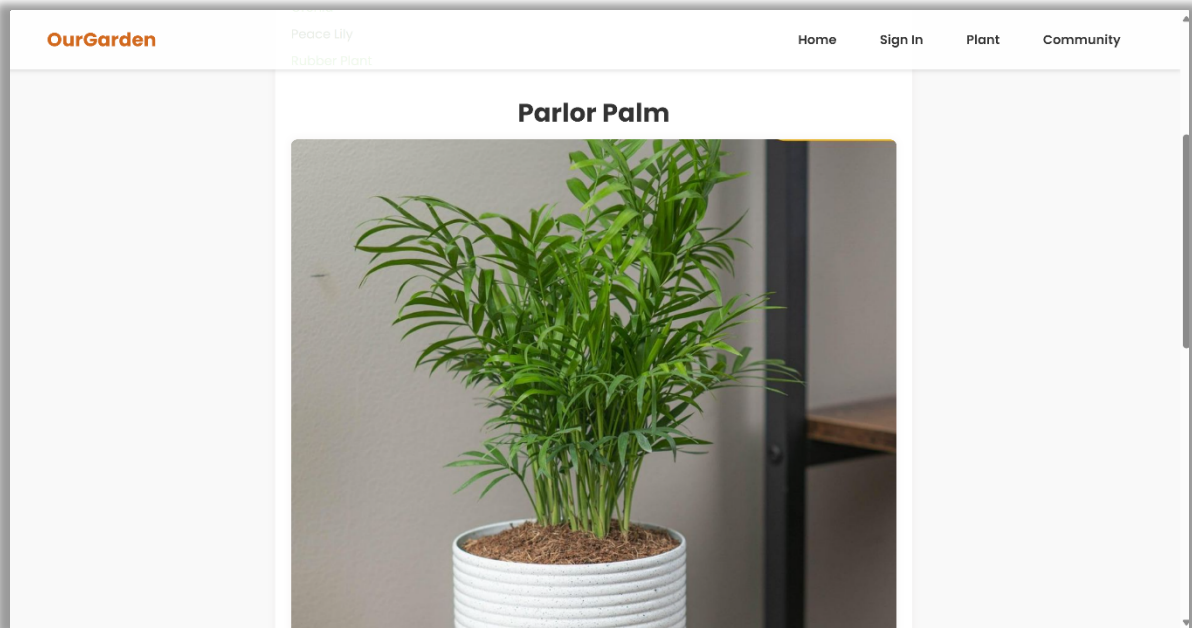
To illustrate the results of our testing and the final look of OurGarden, we include the following screenshots:

1. Home Page:



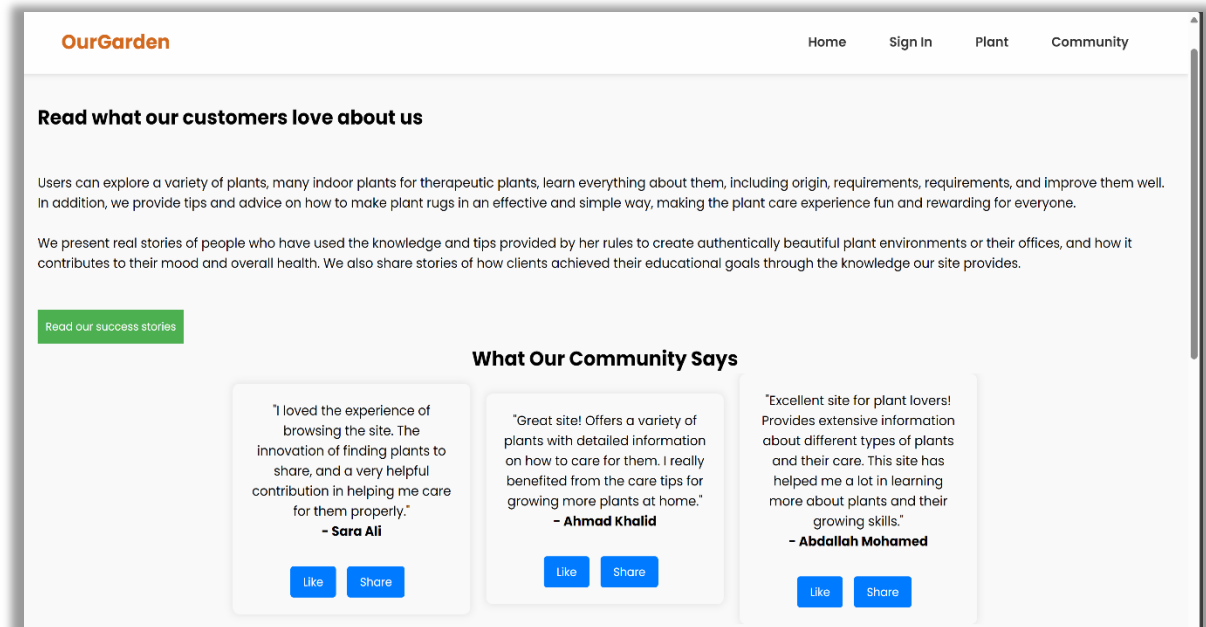
2. Plant Page:

- **Description:** The Plant page includes engaging content with images and videos about various plants.



3. Community Page:

- **Description:** The Community page allows users to submit reviews and interact with each other.



These screenshots demonstrate the tested and finalized version of OurGarden, showcasing its intuitive design, user-friendly interface, and comprehensive features.

○ **Section4: Conclusion:-**

Working on the OurGarden project taught us several important lessons:

1. User-Centered Design:

We realized how crucial it is to focus on the user's experience. Designing with the user in mind helped us create a website that is easy and enjoyable to use.

2. Teamwork:

Collaborating effectively was key. We learned to communicate clearly and work together smoothly, which made the project more manageable.

3. Technical Skills:

We enhanced our skills in web development, including HTML, CSS, and JavaScript. We also learned a lot about debugging and making the site perform better.

4. Problem-Solving:

We faced and overcame several challenges, like fixing compatibility issues. This taught us to be persistent and think creatively.

5. Project Management:

We learned how to plan and manage our time and tasks effectively, which is important for any successful project.