

## CS302L & CS211L: SE Term Project

*Remove the descriptive paragraphs in each section including this line (given in blue) stating what to do before you add this to your repository or turn it in.*

Team number	<i>Team4</i>
Project Title	<i>Virtual Herbal Garden</i>
Document	SE Project Concept Document
Existing Work	<i>Herbal Databases</i>
Differences	<i>Providing API, and interactive tours.</i>
Technologies	<i>React/Vue.js , Node+Express+MongoDB.</i>
Customers	<i>Students, Practitioners, Researchers, General Enthusiasts.</i>

### Description

Your **Virtual Herbal Garden** project stands out by focusing specifically on medicinal plants used in AYUSH systems, providing detailed, interactive 2D information. Unlike general plant databases and 3D model-based platforms, it offers a targeted educational experience with interactive features tailored to traditional medicine, making it a unique and accessible resource for those interested in herbal practices.

### Profile of Users

The **Virtual Herbal Garden** caters to a diverse range of users. **Students** need an intuitive, educational platform with engaging content and easy navigation. **Practitioners** require detailed, accurate information on medicinal plants and practical applications. **Researchers** look for comprehensive plant data, advanced search features, and tools for data analysis. **General enthusiasts** seek accessible and informative content about herbal medicine. Each user profile informs the design of the platform, ensuring it meets varied needs with user-friendly interfaces and tailored resources.

### Technology Stack

The **Virtual Herbal Garden** project will use **React** or **Vue.js** for an interactive user interface, **Node.js** with **Express** for backend services, and **MongoDB** or **PostgreSQL** for data storage. **Blender** will create 2D plant visuals, while **GitHub Pages** or **Netlify** will deploy the frontend and **Heroku** or **Vercel** will handle the backend. These technologies offer a balance of performance, scalability, and ease of integration. Alternatives like **Angular** and **Django** could be used.