

Feasibility Study

Economic Feasibility

The economic feasibility of Enchanted Eden evaluates the financial aspects, including development, operational, and maintenance costs.

- **Development Costs:** Employs open-source technologies such as Django for backend development and HTML, CSS, and Bootstrap for frontend design. These choices minimize licensing fees and leverage cost-effective tools, which is ideal for a student-led project.
- **Hosting Costs:** Given that this is an academic project, it will use standard, low-cost web hosting packages that align with the project's needs, ensuring it remains budget-friendly.
- **Operational Costs:** The project benefits from minimal ongoing costs due to the use of widely-supported technologies. Maintenance and updates are manageable within the constraints of an academic budget.

Overall, the project is economically viable due to its low initial investment and sustainable operational expenses.

Technical Feasibility

Technical feasibility examines the project's ability to operate within the existing technical environment and integrate with other systems.

- **Frontend Technologies:** Uses HTML, CSS, and Bootstrap to ensure a responsive and user-friendly interface.
- **Backend Technologies:** Implements Django for its scalability, security, and efficient data management.
- **Database:** Employs PostgreSQL, a reliable open-source database for handling user data and system operations.
- **Machine Learning Integration:** Integrates machine learning for plant care and disease detection, enhancing functionality and user experience.

The selected technologies ensure that Enchanted Eden will operate smoothly and can scale as needed.

Operational Feasibility

Operational feasibility assesses how practical and effective the implementation of Enchanted Eden will be within its target environment.

- **User Experience:** Designed to be user-friendly for various roles, including guest users, registered users, administrative staff, plant care specialists, and delivery personnel.
- **Feature Relevance:** Includes essential features such as plant monitoring, order management, and community engagement, addressing user needs and supporting daily operations.

- **Support and Maintenance:** Provides periodic updates and support, ensuring ongoing effectiveness and usability.

Enchanted Eden is expected to be well-adopted, with effective implementation and usability throughout its operation.