

PROJECT NAME: StayHub-A Platform for providing Accommodation to Guest.

FEASIBILITY STUDY

What is Feasibility Study?

A feasibility study is a comprehensive evaluation of a proposed project that evaluates all factors critical to its success in order to assess its likelihood of success.

Types of Feasibility Study?

1. Technical Feasibility
2. Economic Feasibility
3. Operational Feasibility

TECHNICAL FEASIBILITY STUDY

Technical feasibility can be described as the formal process of assessing whether it is technically possible to manufacture a product or service.

The purpose of this technical feasibility study is to assess whether the proposed development of an online accommodation Booking website is technically achievable given the available resources, technology, and expertise.

Feasibility Questions :-

1. Do stakeholders have the expertise needed?

Expertise:

- **Technical Team:**

The technical team, who are proficient in the chosen technology stack (e.g., HTML/CSS for frontend, Python Django for backend).

- **Designers** who have expertise in user experience (UX) and user interface (UI) design.
- **Hospitality and Property Management:** For hosts who are stakeholders, expertise in hospitality and property management is essential. They should know how to provide a comfortable and safe stay for guests, manage reservations, and address guest concerns effectively.

2. Are additional resources needed in the system including infrastructure, skill-sets or job aids?

- **Infrastructure**

- **Scalability:** The chosen technology stack can be scaled to accommodate a growing user base.

- Django: Django is a robust and scalable backend framework that can handle a growing user base.
- Scalable Hosting: Ensure your hosting infrastructure (e.g., cloud services like AWS, Google Cloud, or Azure) to accommodate traffic spikes and growth.

Skill-set

- Technical Skills: Depending on the evolving technology landscape, new technical skills might be required. For instance, if the platform wants to integrate emerging technologies like AI or AR, it will need experts in those areas.

Job-Aids

- Training Programs: Implementing comprehensive training programs for employees, hosts, and users can help ensure everyone understands the platform's policies and best practices.
- Analytics and Reporting Tools: Investing in advanced analytics and reporting tools can aid decision-making by providing actionable insights into user behavior, market trends, and operational efficiency.

3. Is the system ready in terms of the technology required?

- The system is ready to accommodate growing user load in the future by hosting in the cloud infrastructure.
- The system will be able to ensure secure by testing them at various stages of development, ensuring payment security to provide secure financial transaction and strong password policy for account security.

Conclusion: The technical feasibility assessment indicates that the development of this website is achievable with the available technology, expertise, and resources. The project can proceed to the next phases of development and implementation.

ECONOMIC FEASIBILITY STUDY

Economic Feasibility refers to cost and provides detailed information about project spending, expected revenue, projected profits and the company's return on investment.

The economic feasibility analysis of this website is conducted to determine whether the project is financially viable and to assess the potential return on investment (ROI).

Feasibility Questions :-

1. Do the resources needed exist?

- **Human Resources:** Availability of skilled and experienced professionals are available for Website development and design.
- **Technological Resources:**
Availability of the technology infrastructure required to build and run the website including servers, hosting, and software development tools is ensured. Development team has access to the required software development tools for Django development, including:
 - Integrated Development Environments (IDEs) like PyCharm, Visual Studio Code
 - Version control systems such as Git for collaborative coding.
 - Dependency management tools like pip for Python package management.
 - Using IDE like free community version of Pycharm will help in reducing the cost of development.

2. Cost incurred on software development to produce long-term gains for an organization

Investing in software development for a website like StayHub can indeed incur costs in the short term, but these investments are intended to produce long-term gains for the organization.

Quality Product Development: Investing in software development allows you to create a high-quality, user-friendly platform. This ensures a positive user experience, which can lead to user retention, positive reviews, and word-of-mouth referrals, all of which contribute to long-term success.

Scalability: Properly developed software can scale to accommodate a growing user base and evolving business needs. This scalability reduces the need for costly overhauls or redevelopments in the future, saving both time and money in the long term.

Competitive Advantage: A well-designed and feature-rich website can give your organization a competitive edge in the market. This advantage can help you attract and retain users over the long run, which is crucial for sustained success.

Conclusion: The economic feasibility assessment indicates that the development of this website is achievable economically. The project can proceed to the next phases of development and implementation.

OPERATIONAL FEASIBILITY

Operational Feasibility is analyzed with how much easy product will be to operate and maintenance after deployment.

Operational feasibility in StayHub, refers to assessing whether the proposed online platform can be effectively operated and integrated into the existing infrastructure of the organization or business. It involves evaluating whether the project can meet its operational goals and objectives within the constraints of available resources and technology.

Feasibility Questions

1. Do existing system procedures and protocols support the new service or initiative?

The new services can seamlessly integrate with existing systems, such as customer databases, payment processing, and inventory management. For example: Implementing a new service like –

Local Experiences and Tours: Integrating a platform that allows hosts to offer and guests to book local experiences and guided tours. Integration should include availability, pricing, and booking data with existing systems.

2. How will key contributors be involved?

- **Development Team:** The development team ensures that the website is built to operational standards. They collaborate with other teams to integrate the website with existing systems, such as customer databases and payment processing.
- **User Experience (UX) Designers:** UX designers contribute to operational feasibility by ensuring that the website's design supports efficient user interactions. They help design user interfaces and workflows that align with operational processes.
- **Stakeholders:** They determine what the platform needs to achieve from an operational perspective like user experience, property management, and revenue generation. Stakeholders also oversee the provisioning of technology infrastructure necessary for StayHub's operations. This includes servers, hosting, databases, and software development tools.

Conclusion: The operational feasibility assessment indicates that the website can be easily operated and maintained after deployment. The project can proceed to the next phases of development and implementation