**Requirement Gathering**

1. Project Overview?

Project Title: **PG/Hostel Management System**

Project Description: A PG/Hostel Management System is a comprehensive software solution designed to streamline and automate the management of PG accommodations, hostels, or dormitory facilities. This system caters to the needs of administrators, staff, and residents by providing a centralized platform to efficiently handle various aspects of PG/hostel operations.

1. To what extend the system is proposed for?

* Multiple PG and Hostels

1. Specify the Viewers/Public which is to be involved in the System?

* Admin
* Registered user
* Guest user
* PG owner
* Hostel owner

1. List the Modules included in your System?
   * + - * Admin
         * User
         * PG
         * Hostel
2. Identify the users in your project?

Admin

* + - * + Registered user
        + Guest user
* PG owner
  + - * + Hostel owner

1. Who owns the system?

* Collaborative ownership

1. System is related to which firm/Industry/organization?

* Hostel and PG accommodation

1. Questionnaire to collect details about the project? (min 10 questions, include descriptive answers, attach additional docs (e.g. Bill receipts, certificate models), if any?)
2. Is this system for a single PG/Hostel?

No. This is for multiple PG and Hostels

1. Is there any facility for the users to contact the owners?

Yes. Contact number and emails will be provided

**Feasibility study**

**Feasibility** is defined as the practical extent to which a project can be performed successfully. To evaluate feasibility, a feasibility study is performed, which determines whether the solution considered to accomplish the requirements is practical and workable in the software. Information such as resource availability, cost estimation for software development, benefits of the software to the organization after it is developed and cost to be incurred on its maintenance are considered during the feasibility study. The results of the feasibility study should be a report that recommends whether or not it is worth carrying on with the requirements engineering and system development process.

If a system does not support the business objectives, it has no real value to the business. While this may seem obvious, many organizations develop systems which do not contribute to their objectives either because they don’t have a clear statement of these objectives, because they fail to define the business requirements for the system or because other political or organization factors influence the system procurement.

The objective of the feasibility study is to establish the reasons for developing the software that is acceptable to users, adaptable to change and conformable to established standards. Various other objectives of feasibility study are listed below.

* To analyze whether the software will meet organizational requirements
* To determine whether the software can be implemented using the current technology and within the specified budget and schedule
* To determine whether the software can be integrated with other existing software.

**Economic Feasibility**

Economic feasibility is a critical aspect of evaluating the viability of implementing a PG/Hostel Management System. It involves assessing whether the project is financially justifiable and whether the expected benefits outweigh the costs. Economic justification includes a broad range of concerns that include cost-benefit analysis. The system will be developed and operated in the existing hardware and software infrastructure. So, there is no need for procuring additional hardware and software for the system. The performance is improved which in turn may be expected to provide increased benefits. Thus, the project is economically feasible.

* Do the resources needed exist?
* There is a skilled development team in place with expertise in the required technologies. It doesn’t involve hiring additional staff, outsourcing specific tasks, or investing in training and infrastructure improvements. Careful resource planning and allocation are essential to ensure the successful development, deployment, and maintenance of the PG/Hostel Management System.
* Will the proposed service or initiative lead to better use of resources to improve outcomes, when compared with other options?
* This system is cost efficient. It improves user experiences, such as enhanced user satisfaction and streamlined administrative tasks. It improves operational efficiency, reducing manual tasks and paperwork. The system's automation can lead to better data accuracy and decision-making.

**Technical Feasibility**

The purpose of this study is to assess the system's technical feasibility or requirements. It helps identify potential technical challenges, resource requirements, and risks that may impact the successful development and deployment of the PG/Hostel Management System. Any system developed must not significantly tax the existing technical resources. The client will consequently be subject to high expectations. The developed system must be easy to apply, needing either no changes at all or only a small number.

* Do stake holders have the expertise needed?
* The expertise of stakeholders in a PG/Hostel Management System project can vary significantly depending on their roles and responsibilities. Users of the system, including administrators, PG/Hostel owners may not need expertise in software development but should be familiar with the system's user interface and functionality. End users (guests and residents of PGs and hostels) may not need technical expertise but should be knowledgeable about how to use the system effectively.
* Are additional resources needed in PG/Hostel Management system including infrastructure, skills-sets or job aids?
* Depending on the size of the system and the number of users and transactions, additional server resources may be needed to ensure system performance and reliability. This could include scaling up server capacity or migrating to cloud-based hosting services. Since the system incorporates advanced technologies (e.g., AI for recommendation systems or geolocation services), additional technical expertise may be needed.
* Is the PG/Hostel Management system ready in terms of the technology required?
* The programming languages, frameworks, and databases, is well-suited for the system's requirements. The system is designed to scale efficiently to accommodate a growing number of PGs, hostels, users, and transactions.

**Behavioral Feasibility**

Behavioral feasibility assesses whether a PG/Hostel Management System is feasible from the perspective of its users and stakeholders. It primarily focuses on understanding how the system will impact the behaviors, attitudes, and routines of those who will interact with it. The study's objective is to ascertain the degree of system acceptance by the user. This covers the guidance required for the user to utilize the system correctly. The user should not feel intimidated by the system; rather, they should see it as a need. The methods used to enlighten and familiarize the user with the system are the sole elements that influence how accepting they are of it.