

System Scope Document

Problem Statement

Currently, making a room reservation in the institute is full of difficulties and not able to be processed within 10 minutes, making the users, for example, students, teachers, administration staff to feel the irritation from the complexity of the old system. This could lead to information redundancy and an increased chance of getting rejected from overbooking. Also, the old-style paper-driven workflow is hard to understand and slows the process, as the administrators need to convert them into digital copies.

Objectives

1. To learn Web server development with *Java* and *Scala* programming languages.
2. To reduce paper usage.
3. To digitize all the workflows.
4. To simplify and speed up the reservation process.
5. To make logging and exporting of reservations easy.
6. To make reservations easier to manage and traceable.
7. To greatly reduce redundancy via a centralized information platform.

System Scope

1. Design the service to be accessible via the Internet.
2. Develop an API for developers to interact with the service.
3. The scope includes space reservation and space status checking.

Business Benefits

1. A reduction in paper usage.
2. A reduction in administration workload.
3. A reduction in human errors, confusion, and resources wastage.
4. An increase in reputation, speed, and security of reservation process.

System Capabilities

1. Supports current organization accounts.
2. Supports multiple simultaneous users.
3. Can be auditable.