### **Abstract**

The project titled **"PG Made Eazy"** is a web-based application designed to simplify the process of finding and managing Paying Guest (PG) accommodations. This system aims to bridge the gap between **PG seekers** and **PG hosts** through a streamlined, centralized platform. Using **MongoDB** as the primary database, the application efficiently handles complex data involving users, property listings, bookings, reviews, and system reports.

The platform features two main user roles: **seekers**, who browse and book accommodations, and **hosts**, who list and manage their PG properties. The data model is carefully designed using a combination of **embedded documents** (for fields like amenities and user ratings) and **referenced documents** (for relations like users ↔ bookings, properties ↔ reviews) to ensure scalability and performance.

Users can view detailed property information, post feedback, make bookings with automated date handling, and access real-time availability. Administrators can generate analytical reports to monitor platform usage, booking trends, and resolved issues. The application follows CRUD operations (Create, Read, Update, Delete) across all major collections to support full data lifecycle management.

In summary, PG Made Eazy leverages **MongoDB’s flexible schema**, **real-time data access**, and **aggregation capabilities** to offer a user-friendly and intelligent solution for PG accommodation management.