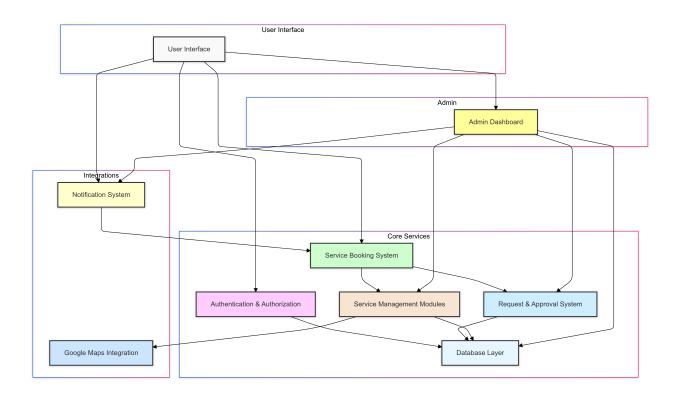
High Level Component Diagram - EasyStay



Review of Flow:

1. User Interface (A):

- The **User Interface (A)** interacts with:
 - Authentication & Authorization (B): This is the entry point for users to log in, authenticate, and get authorization to access services.
 - Service Booking System (C): Allows users to book services (vehicle, pool, laundry, etc.).
 - Notification System (G): Sends notifications (for bookings, approvals, etc.).
 - Admin Dashboard (I): Allows the admin to manage the system.

2. Authentication & Authorization (B):

• **B** interacts with the **Database Layer (F)** to verify credentials and handle user data.

3. Service Booking System (C):

- **C** interacts with:
 - Request & Approval System (D): Handles requests made by users (for pool bookings, laundry, etc.) and sends them for approval.
 - Service Management Modules (E): These modules allow managers (Pool, Laundry, Food, etc.) to manage their respective services (like adding products, vehicles, etc.).
 - Notification System (G): After a request is approved, it triggers notifications to the user.
 - Database Layer (F): For storing and managing service bookings and user-related data.

4. Request & Approval System (D):

- **D** interacts with the **Database Layer (F)** to record approval statuses.
- It also connects to **Service Management Modules (E)** for specific service-related tasks (like approving pool bookings or food orders).

5. Service Management Modules (E):

- **E** interacts with the **Database Layer (F)** for service-related data (like managing pool reservations, vehicle bookings, etc.).
- It also interacts with **Google Maps Integration (H)** for services like vehicle pick-up location.

6. **Database Layer (F)**:

- Acts as the backbone for storing and retrieving data for authentication, service bookings, approvals, and service management.
- It interacts with every other component that needs to store/retrieve data.

7. Google Maps Integration (H):

• H integrates with Service Management Modules (E), specifically for services like vehicle bookings where location is important (pick-up/drop-

off).

8. Admin Dashboard (I):

- The Admin Dashboard has control over all major components. It interacts with:
 - Database Layer (F) for overall data access and management.
 - Service Management Modules (E) for overseeing the service modules (e.g., adding/removing services).
 - Request & Approval System (D) to monitor and manage user requests.
 - Notification System (G) to ensure notifications are triggered correctly.