Project Scope Document

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| **Title** | Hotel Management |
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## Details of Project

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| **Project Elements** |
| * A minimum of 12 use cases that are fully elaborated. * A rough sketch of the UI of the system to give yourself some grounding. * Architecture Diagram showing major systems. * Class Diagram for major classes in your system - 12-15 classes. * Create a sequence diagram for 1-3 objects that realize one of your use cases. * Python application using the 6+ major classes demonstrating the core functionality -GUIs are NOT required. |
| **Hotel Management System Requirements** |
| **General** **Requirement**   * The hotel management system allows a customer to make, update, or cancel (delete) a reservation. * The hotel management system will allow an employee of the hotel to make, update, or cancel (delete) a reservation. * The system will keep track of the rooms available for any potential timeframe. * The system will add or remove hotel rooms from inventory based on a reservation status or other reason. * The system will generate invoices for customers that stay at the hotel. * The system will zero out the hotel bill upon payment of the invoice. |
| **Functional Requirements**  **The hotel management system will**   * Keep track of the number of available rooms by room type any given date * Record customer information   + First Name, Last Name   + Address, City, State, Zip   + Phone Number   + Email Address * **Record Rooms** * Room number * Room Type * Max Occupants * Default Room Rate * **Recorded reservations must include the following:** * Room Type * Number of occupants * Room Rate * Generated Confirmation Number * Check-in date * Check-out date * Customer ID of the customer who made the reservation. * **The customer must be able to** * Make a reservation. * Modify their reservation. * View their reservation. * Cancel their reservation. * Pay their Invoice. * **Employees must be able to** * Make a reservation. * Modify a reservation. * Cancel a reservation. * Check customers into a hotel. * Issue a room key. * Assign Guest to a Room * Check customers out of the hotel. * Create a hotel invoice. * Collect Payment |