**BIS 698 - INFORMATION SYSTEMS PROJECT**

Classroom code: 22448438

Professor: Shankari Ghosh

**Group Project Proposal Document for HOTEL MANAGEMENT SYSTEM**

\*\*Group 05\*\*

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## Objective

The objective of this project is to develop a centralized system to manage various operations of a hotel, including booking, check-in, check-out, room management, billing, and reporting for hotel staff, keeping it user-friendly and accessible.

## Company Background

\*\*Organization Name:\*\* Chippewa Hotel

A hotel in Mount Pleasant that provides accommodations for both locals and tourists. The current manual system using pen and paper for booking, check-in, and check-out registers is to be replaced with a centralized information system for improved efficiency, security, and business insights.

## Description

A GUI is created using the Python programming language (version X) and its tkinter package, communicating with an SQLite3 database (version Y). An entity relationship diagram and a data flow diagram are designed to depict the database structure and information flow. Additionally, a connection will be established between the database and Tableau (version Z) for data visualization and analytics.

## Scope

The system will be GUI-based, accessible from any computer with an internet connection, and include functionalities such as room booking, room management, check-in/check-out, billing, and reporting.

## Technologies

- \*\*Front-end development:\*\* PyCharm (version A), Python language (version B), GUI development library (Tkinter, version C)

- \*\*Database management system:\*\* SQLite3 (version Y)

- \*\*Design tool:\*\* Lucid chart (version D)

- \*\*Design techniques:\*\* ERD, DFD

## Getting Started

1. Clone the repository.

2. Run `pip install -r requirements.txt`.

3. ...

## Expected Outcomes

- Improved operational efficiency through process automation.

- Increased guest satisfaction with a streamlined booking process.

- Improved decision-making through real-time access to occupancy, revenue, and guest data.

## Deliverables

- A fully functional GUI-based hotel management information system.

- User manual and documentation (located in the `docs` folder).

- Training for hotel staff on system usage.

## Screenshots

**Screens:**

A screenshot of a computer

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A screenshot of a computer

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A screenshot of a computer

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A screenshot of a hotel management system

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**Tables:**

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## Note

This document is the first draft of Group 5’s project discussion and their proposal. There may be changes in the future with the approval of the project guide (Professor Shankari Ghosh).

## License

This project done as part of the final project in the Master of Science in Information Systems coursework.