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LEVEL III B SOFTWARE ENGINEERING



Scientia et Lux

ASSIGNMENT OF MANAGEMENT INFORMATION
SYSTEM

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MANAGEMENT INFORMATION SYSTEM OF AN ENTREPRISE (MIS)

1. Introduction

A **Management Information System (MIS)** is a computerized system designed to collect, process, store, and provide information necessary for managerial decision-making. This system plays a crucial role in enhancing business operations by systematically managing employee records and generating reports in real time.

2. Objectives

The primary objectives of this MIS are:

- To automate employee information management.
- To generate real-time employee reports.
- To provide secure access to the system through user authentication.
- To offer a user-friendly interface with a modern design.

3. System Features

The system incorporates the following **seven characteristics of MIS**:

Characteristic	Description
Systematic Processing of Data	Employees' data is systematically processed using dictionaries and lists.
Decision-Making Support	The system generates reports on employee statistics such as Total Employees, Total Salary Expense, and Average Salary.
User-Friendly Interface	The GUI uses Tkinter with colored backgrounds, buttons, and labels for intuitive navigation.
Integration of Information	Employee details including ID, Name, Department, and Salary are combined into a single record.
Security & Privacy	Only authorized users can access the system through username and password authentication.
Real-Time Reporting	Instant reports are generated at the click of a button with up-to-date employee data.

Characteristic

Description

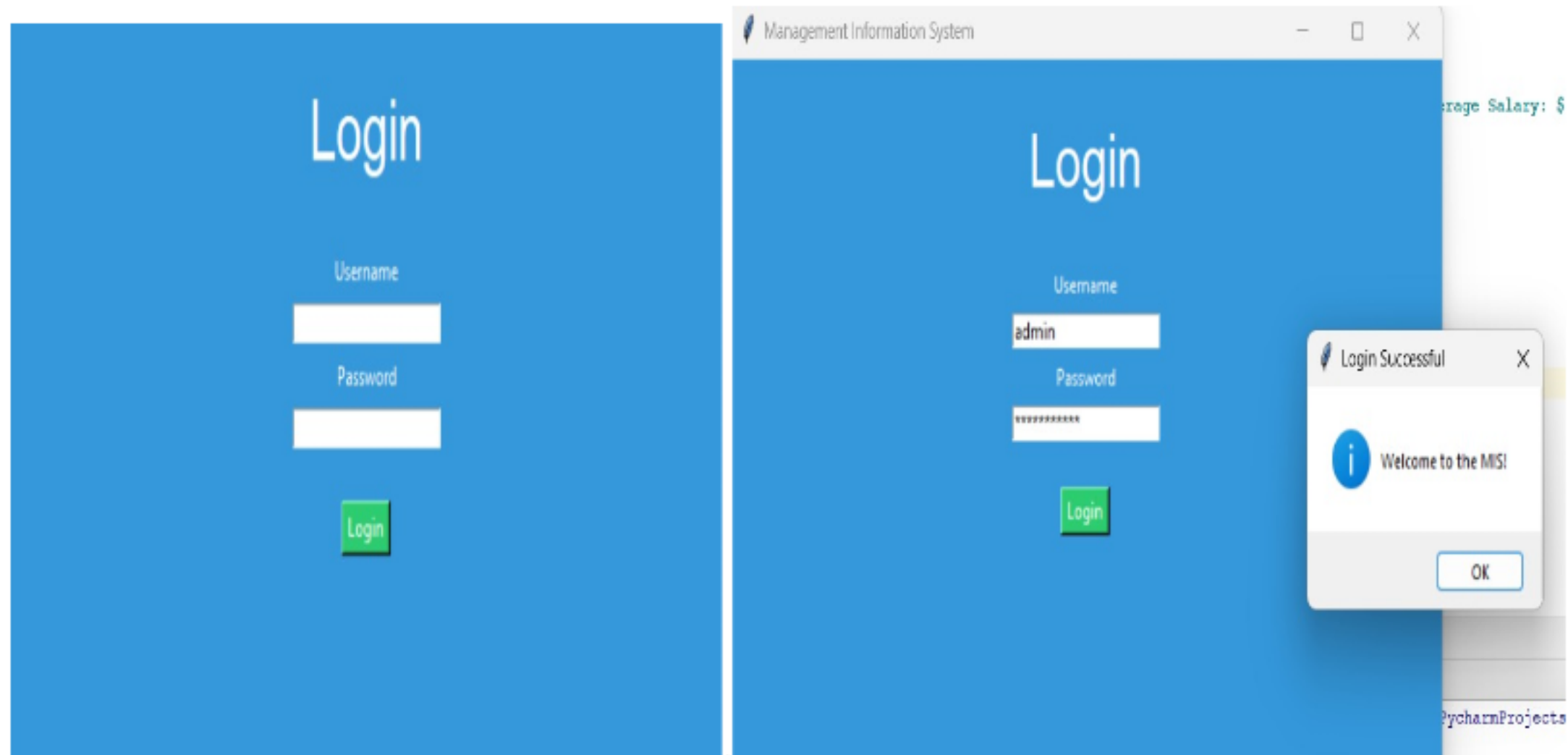
Scalability & Flexibility

The system can accommodate **multiple employees** and can be extended with additional features in the future.

4. System Design

1. Login Window

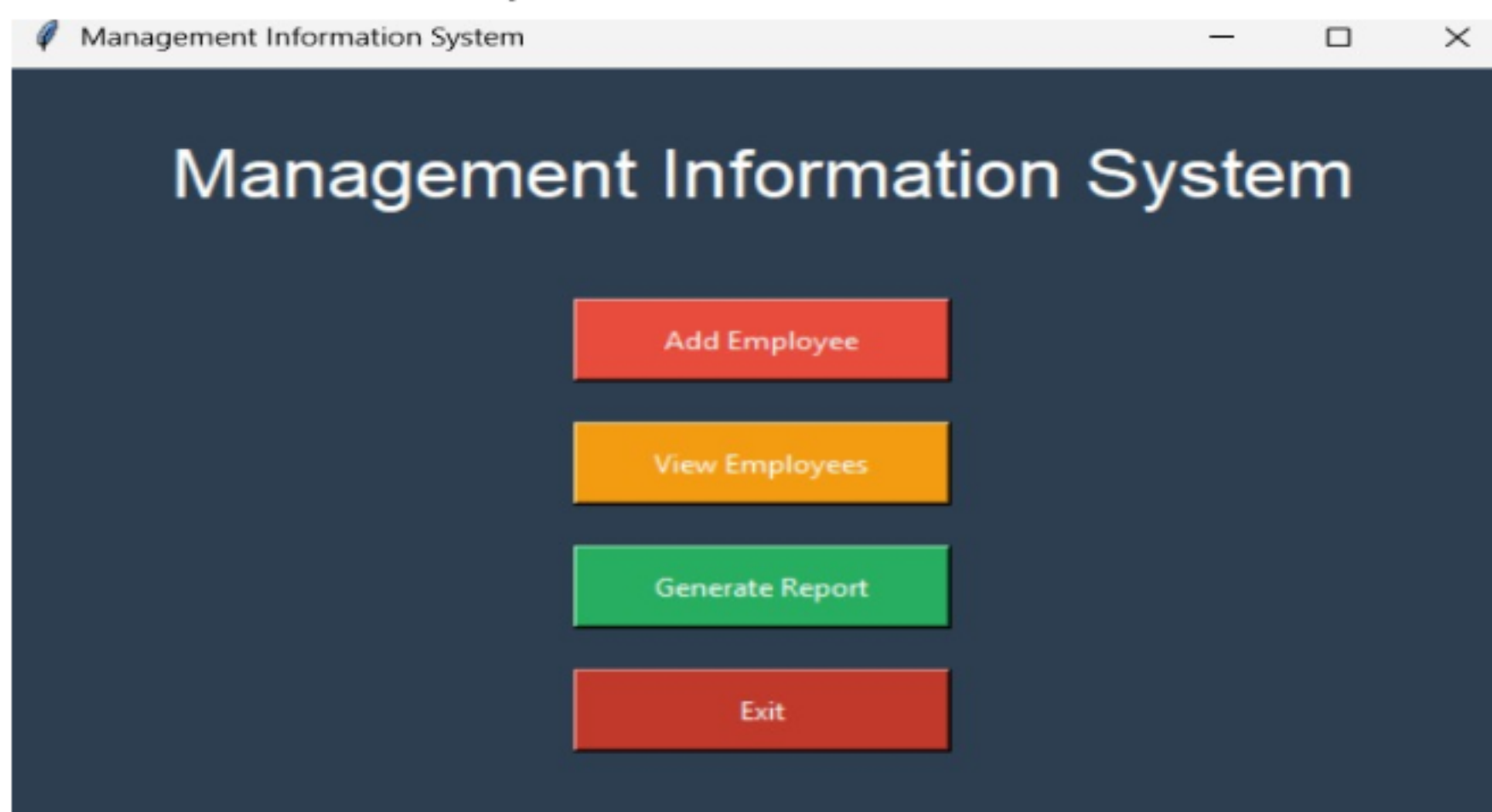
Allows authorized users to access the system



2. Main Menu

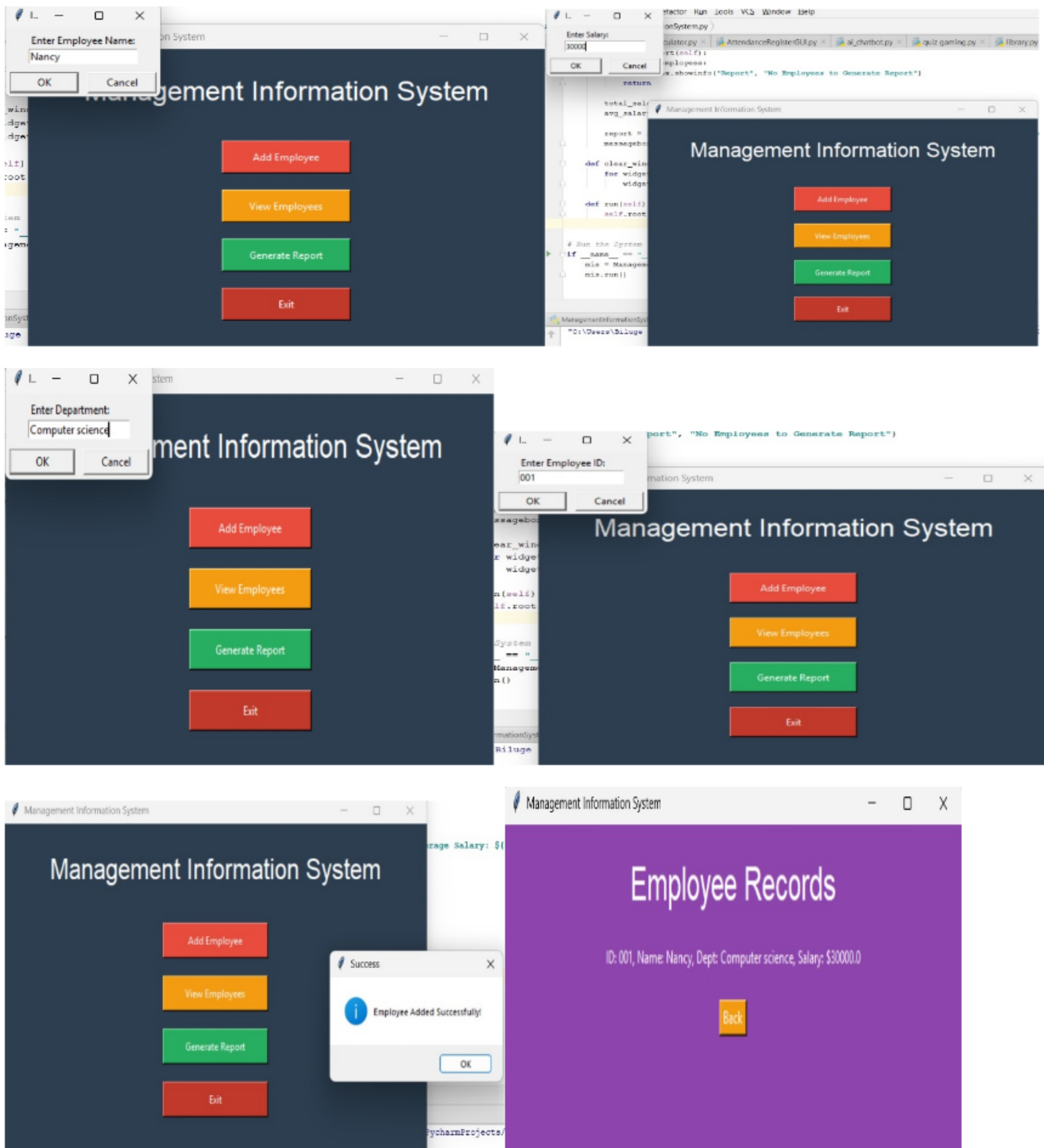
Provides options to:

- Add Employee
- View Employee List
- Generate Reports
- Exit the System



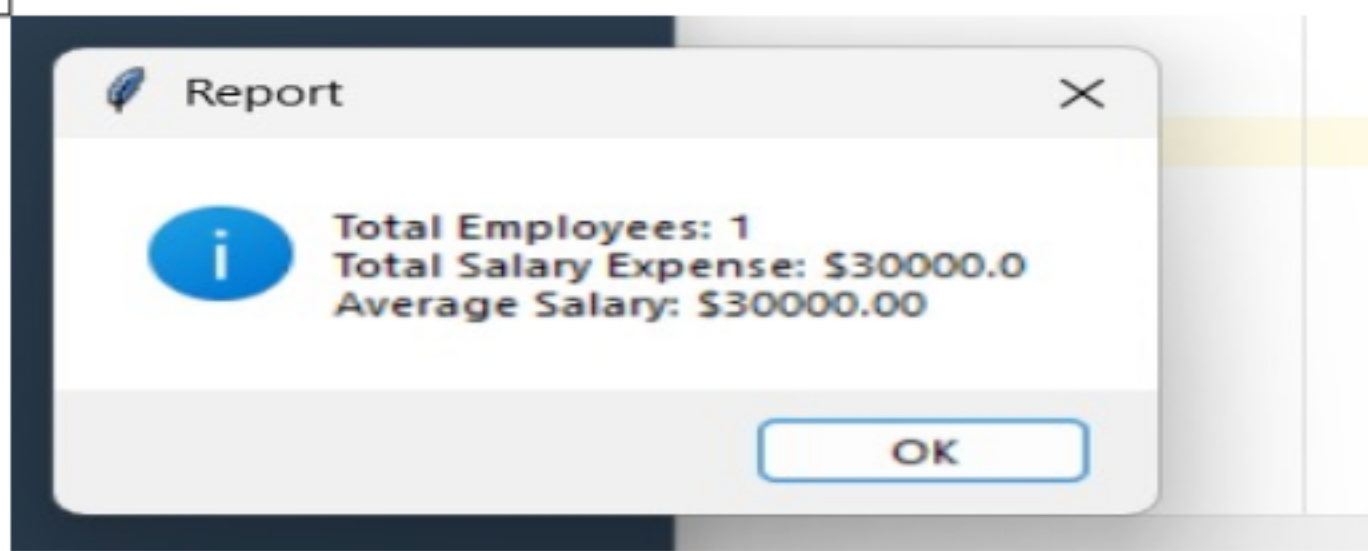
3.Data Storage

Employee information is stored temporarily in dictionaries during runtime.



4. Report Generation

Calculates **Total Employees**, **Total Salary Expense**, and **Average Salary** dynamically.



5. Conclusion

The **Management Information System (MIS)** successfully automates employee data management with a user-friendly GUI. The system meets the seven key characteristics of MIS by offering **secure, real-time, and scalable management solutions**.