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# AGENDA

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- ~ PRESENTATION TITLE
- ~ INTRODUCTION
- ~ PROJECT OBJECTIVE GOAL
- ~ SYSTEM ARCHITECTURE COMPONENTS
- ~ USER INTERACTION REGISTRATION
- ~ ADMIN FUNCTION ADD CAR
- ~ USER FUNCTION EDIT USER DATA
- ~ FUTURE ENHANCEMENT
- ~ CONCLUSION

# **PRESENTATION TITLE**

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**“ CAR RENTAL SYSTEM  
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# INTRODUCTION

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- ▶ A simple car rental system implemented in Java using object-oriented programming principles.
- ▶ Purpose: To manage car rentals efficiently, ensuring users can easily register, login, and rent cars.
- ▶ Key Features: User registration, login, car management, and rental tracking.

# Project Objectives Goals

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**Implement an Object-Oriented Design:** Use classes and objects to represent real-world entities.

**Provide a User-Friendly Interface:** Ensure the system is easy to navigate for users.

**Ensure Secure User Data Management:** Protect user information, especially passwords.

**Facilitate Easy Car Rental Processes:** Simplify the car rental and management processes.



# System Architecture Components

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- ▶ **Car Class:** Manages car details (brand, model, color, year, price per hour).
- ▶ **Admin Class:** Manages admin details (first name, last name, email, phone, password).
- ▶ **User Class:** Manages user details (first name, last name, email, phone, password).
- ▶ **CarRentalSystem Class:** Manages the main functionality including user registration, login, and car management.

# User Interaction Registration

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- ▶ Collects user details and adds a new user to the system.
- ▶ Login: Authenticates user based on email and password.
- ▶ Logged-in User Menu: Options to add/view cars, show rents, edit data, change password, view admins/users, and logout.

# Admin Functions Add Car

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- ▶ Allows adding new car details. View Cars: Displays a list of all available cars.
- ▶ Show Rents: Placeholder for rental tracking implementation.



# User FunctionsEdit User Data

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- ▶ Allows the logged-in user to update their details.
- ▶ Change Password: Allows the logged-in user to change their password securely.

# Future EnhancementsPossible Improvements

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- ▶ Implement rental tracking and management.Add more robust error handling.Improve the user interface with a graphical UI.Enhance security features.

# CONCLUSION

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- ▶ **Recap the project's objectives and key features. Discuss the learning outcomes from implementing this project.**



**THANK YOU**