Title Page

SC2006 Project

CCRENTAL

Top G

Title Page | Introduction

What is CCRental?

INTRODUCTION

CCRental is a website that helps people find the cheapest and nearest car renting services.

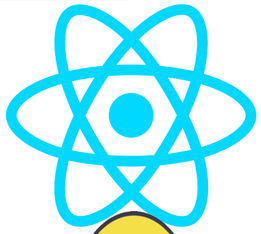
Title Page | Introduction

What is CCRental?

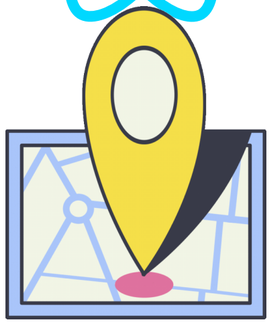
MERN STACK

FRONT - END

React



Google maps api



BACK - END

Node JS

Python

DATABASE

MongoDB

mongoDB

INTRODUCTION

INPUT

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PROCESS

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OUTPUT

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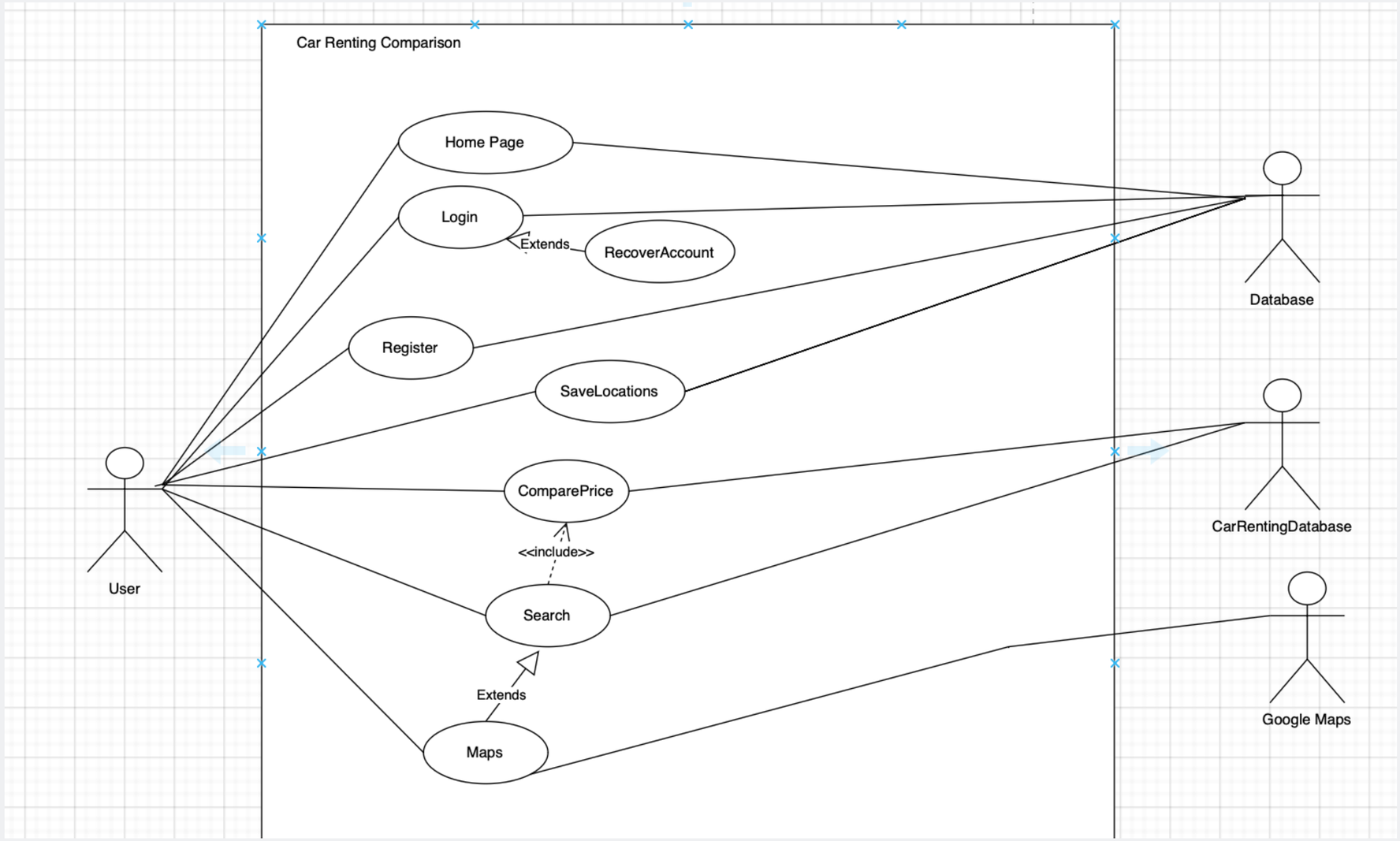
FEEDBACK

Use Case Diagram



Title Page | Introduction | Functionality

Main fucntions

LOGIN AND REGISTRATION

ACCOUNT RECOVERY (OTP)

SEARCH FOR CARS

TIME AND DISTANCE CALCULATION

RESULTS

SAVE LOCATIONS

EXPECTED USERS

Singaporeans, who don't own a car but would like to rent cars for certain hours time to time.

Good SOFTWARE DESIGN PRACTICES

Helps in allowing our code to be maintainable and reusable

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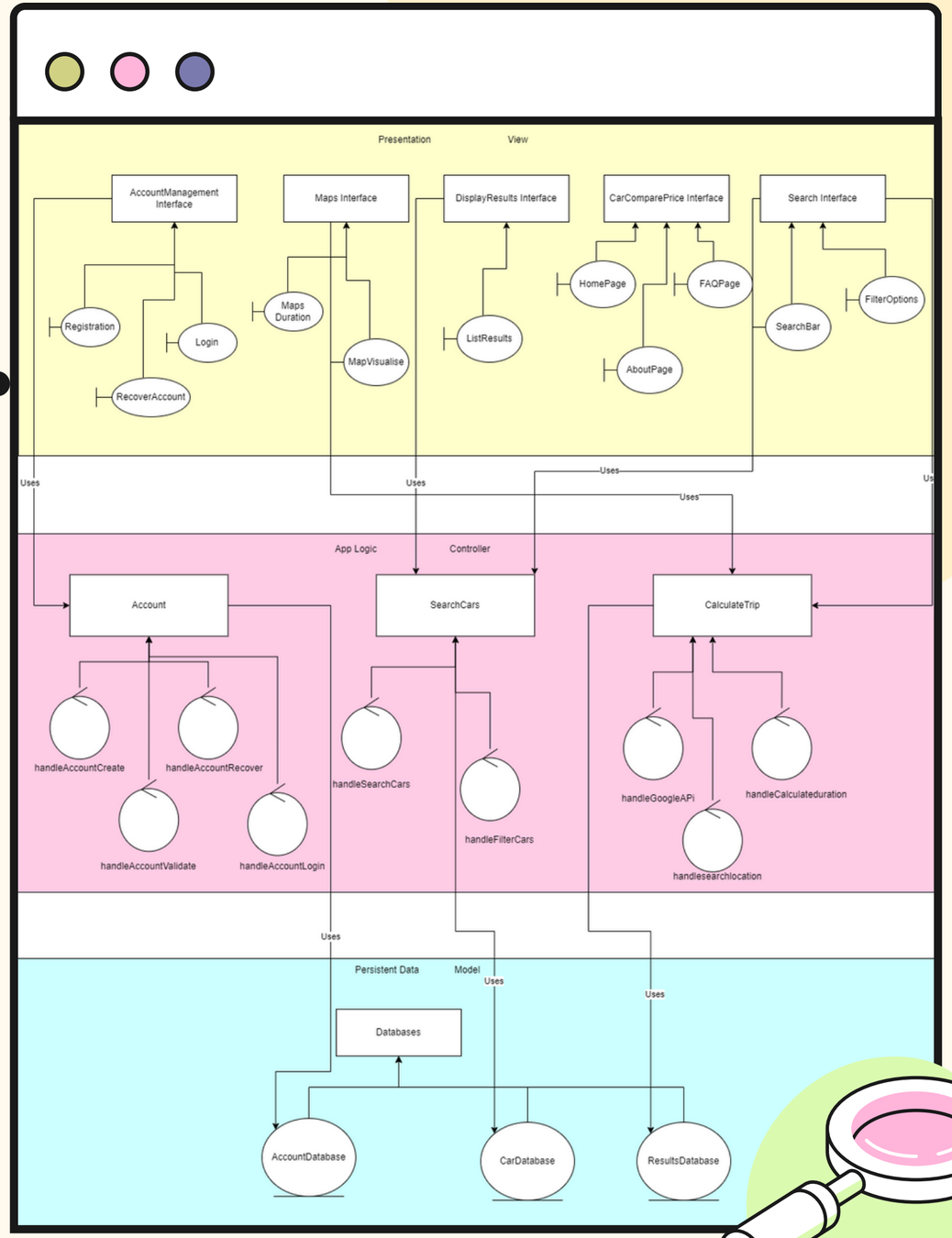
3 LAYERED ARCHITECTURE

SINGLE RESPONSIBILITY PRINCIPLE

KISS

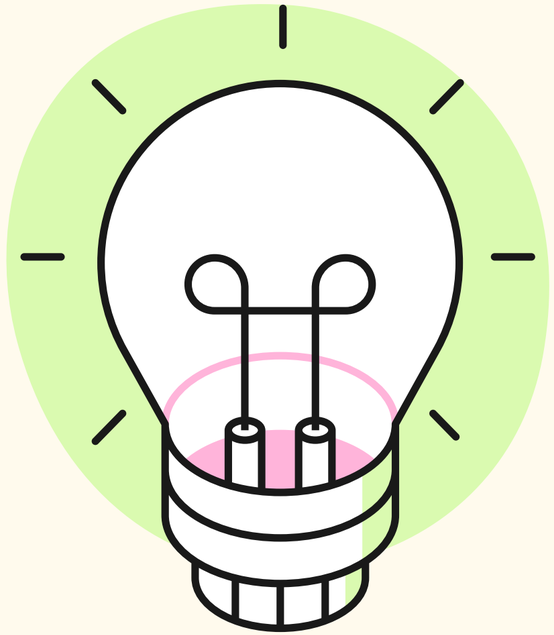
3 LAYERED ARCHITECTURE

- All our codes are split into 3 layer : Presentation, App Logic, Persistent
- All functionalities are built in separated components.
- This allow us to reuse logic within an application
- Reduce the need for repeated code for better maintainability of codes.
- Modifiability by decoupling the computation
- Support reuse of lower layer components while upper layer components varies



SINGLE RESPONSIBILITY PRINCIPLE

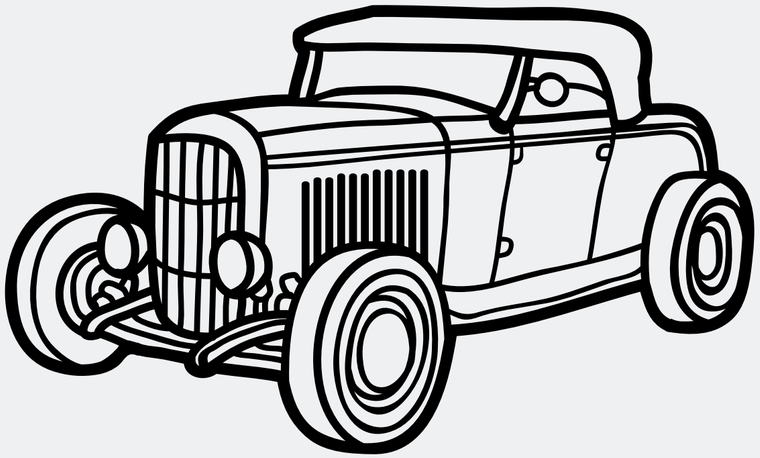
- Every class is only responsible for a single part of the functionality
- Reduce complexity
- Reduce the risk of other parts of the class that we do not intend to change



KISS - KEEP IT SIMPLE & STUPID

- Keep our code simple and focused on the task.
- Each component / router only include codes that are needed for that functionality.

DEMO OF PRODUCT



FURTHER IMPROVEMNTS

INCLUDE CARPARK AVAILABILITY API

This will be a secondary function that allows users to better plan their route.

WEATHER API

Another secondary function that allows users to better plan their route

SC2006 SOFTWARE ENGINEERING

THANK YOU

Hope you enjoy
our presentation!