

## MYPARKING

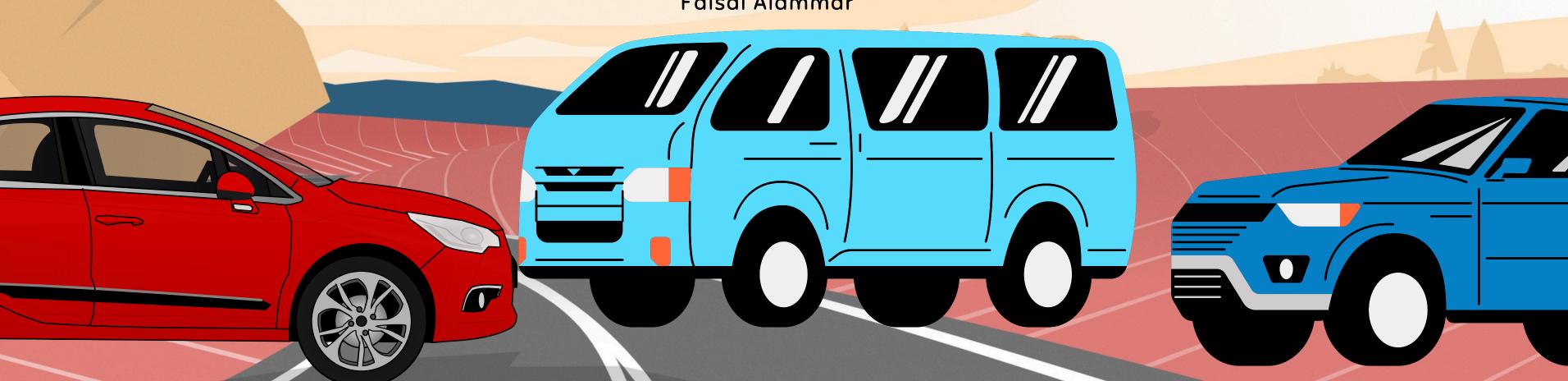
TEAM 2

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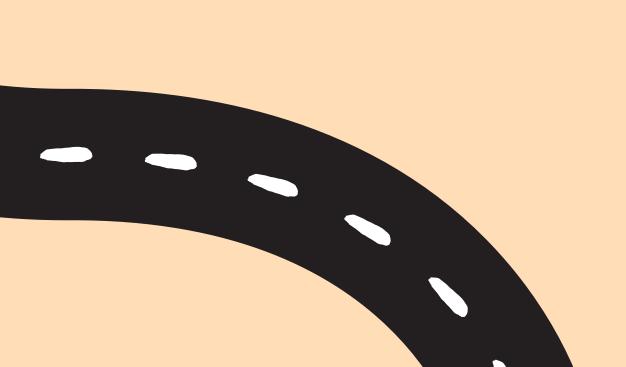
### PRESENTATION CONTENTS

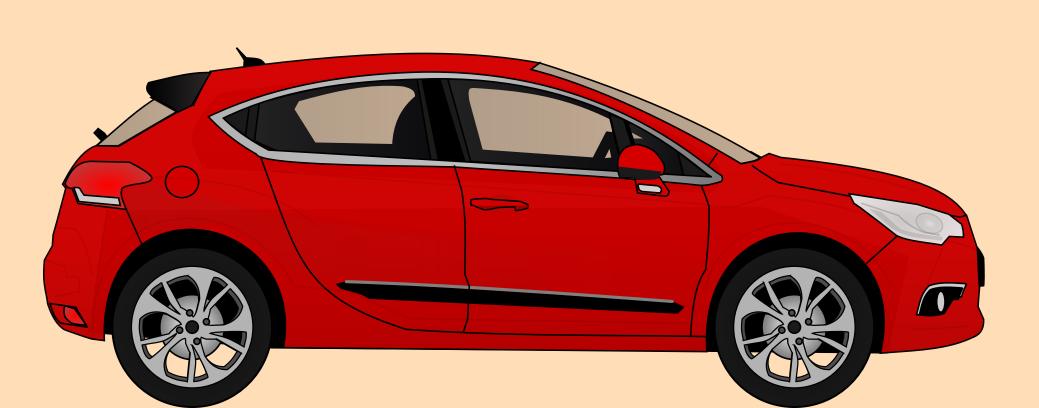


01 Project Idea

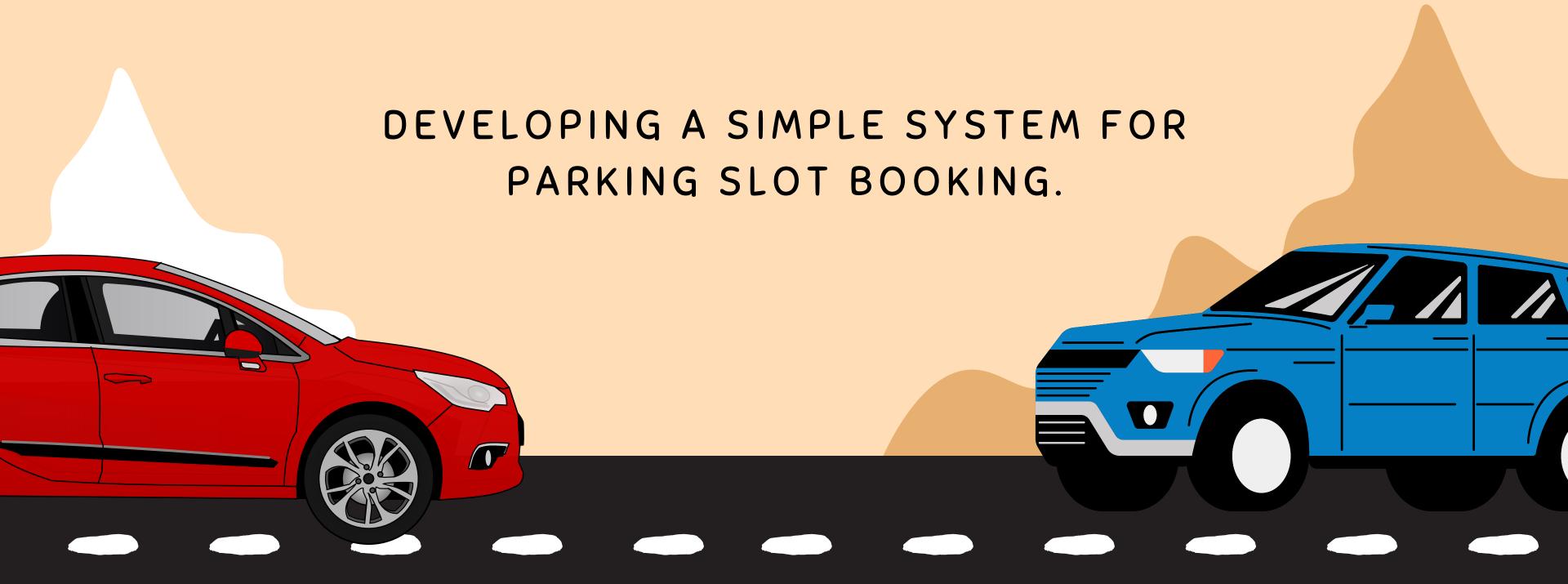
02 Key Features

- 03 requirements
- 04 Overview



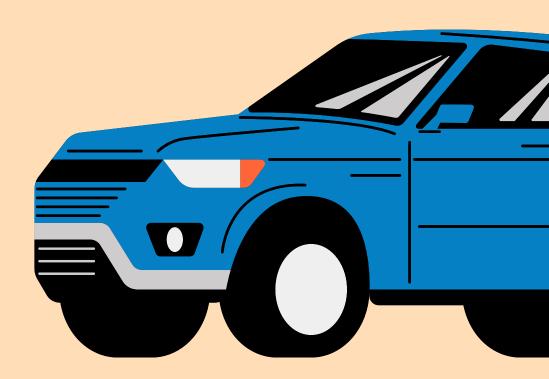


## PROJECTIDEA



## KEY FEATURES

- Book a parking slot using a car's plate number.
- O2 Cancel a reserved parking slot.
- Display all parking slots and their availability status.
- O4 Add a new parking slot dynamically.
- OS Calculate and print an invoice for the reservation.

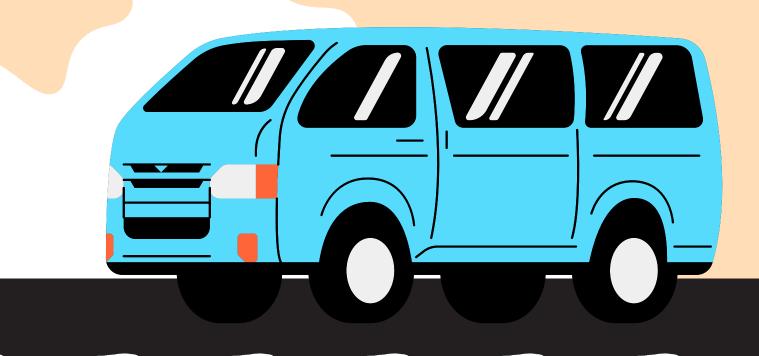


Use at least 3 different data types.

Dictionary

Integer

String









02

Use lists or dictionaries or tuples or sets.

```
st.session_state.parking_slots = {
    1: {"is_it_available": False, "plate_number": "1234"},
    2: {"is_it_available": True, "plate_number": ""},
    3: {"is_it_available": True, "plate_number": ""},
    4: {"is_it_available": False, "plate_number": "9640"},
    5: {"is_it_available": False, "plate_number": "5731"},
    6: {"is_it_available": True, "plate_number": ""},
    7: {"is_it_available": False, "plate_number": "3984"},
    8: {"is_it_available": True, "plate_number": ""},
    9: {"is_it_available": True, "plate_number": "1837"},
    10: {"is_it_available": True, "plate_number": ""},
}
```

```
option = st.selectbox("Choose an option:", [
    "Reserve a parking space",
    "Cancel a parking space",
    "Add a new parking space",
    "Search for a parked car",
    "View all parking spaces"
])
```



03 Use loops.

```
def book_parking_slot(plate_number, hours):
   for slot_id, details in st.session_state.parking_slots.items():
       if details["plate_number"] == "" and details["is_it_available"]:
           st.session_state.parking_slots[slot_id]["is_it_available"] = False
           st.session_state.parking_slots[slot_id]["plate_number"] = plate_number
           price = calculate price(hours)
           # Print the invoice
           invoice = f"""
           <h3>Invoice</h3>
           <strong>Parking Space:</strong> {slot_id}
           <strong>Plate Number:</strong> {plate_number}
           <strong>Hours Reserved:</strong> {hours}
           <strong>Total Price:</strong> {price} riyals
            ...........
           st.markdown(invoice, unsafe_allow_html=True)
           return f"Space {slot_id} has been reserved for car {plate_number}. Total price: {price} riyals for {hours} hour(s)."
   return "Sorry, there are no parking spaces available."
```



Use functions that return an output.

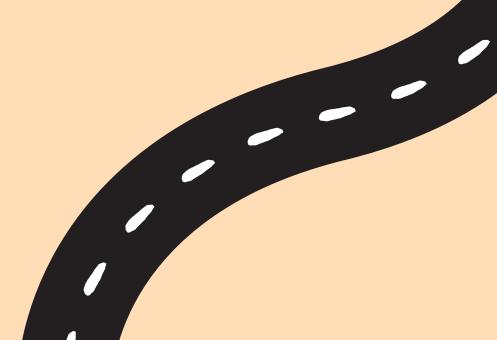


Use conditions.

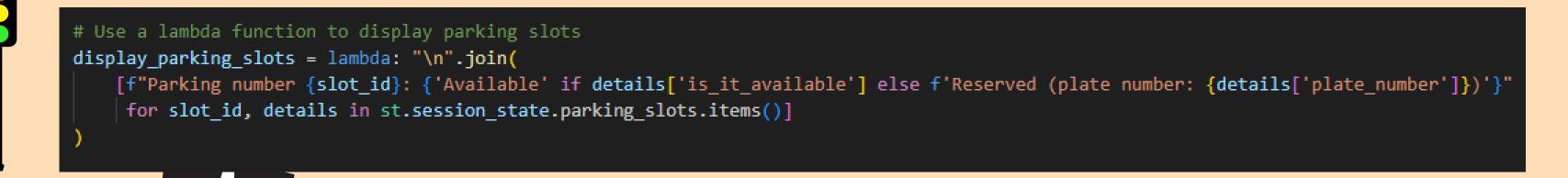


```
def search_car(plate_number):
    for slot_id, details in st.session_state.parking_slots.items():
        if details["plate_number"] == plate_number:
            return f"Car {plate_number} is parked at slot {slot_id}."
        return "Car not found."
```

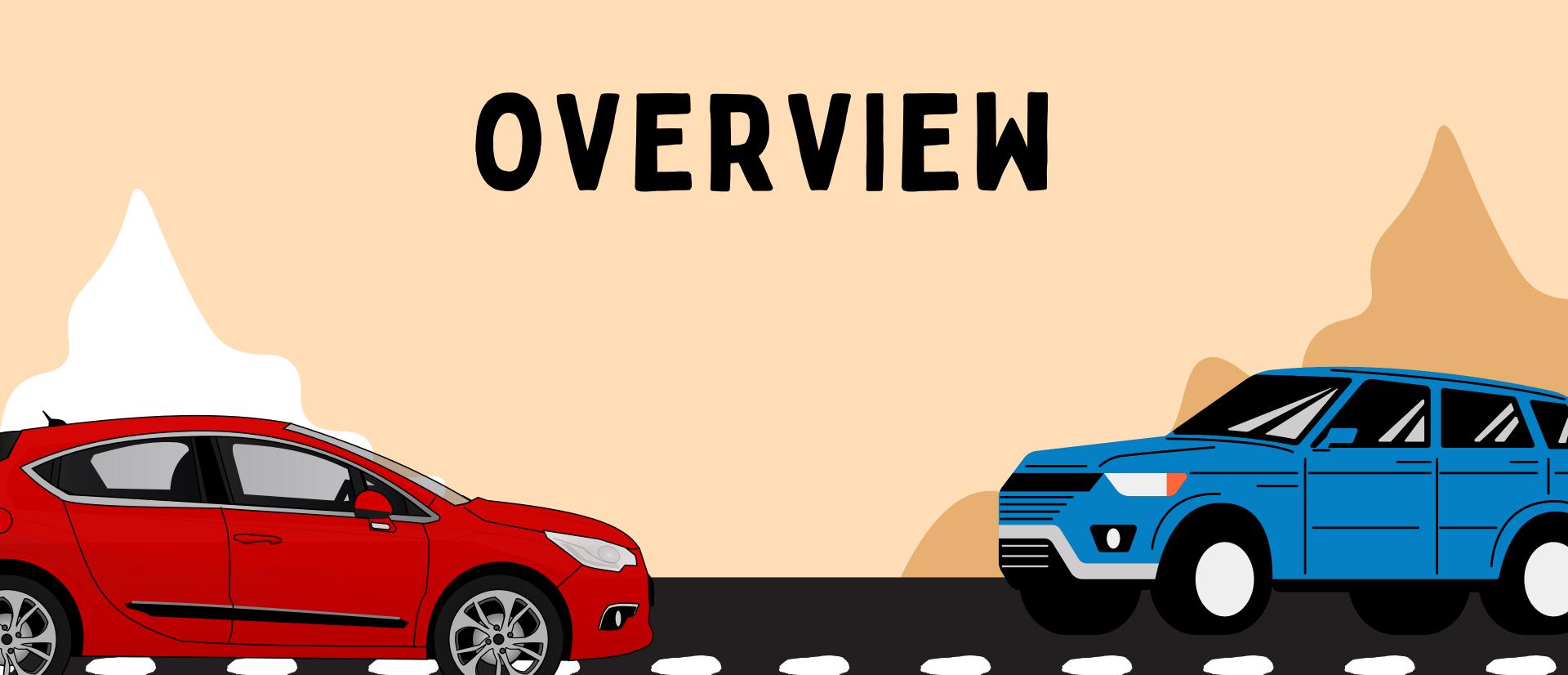




Use a Lambda function.







# THANK YOU FOR LISTENING

