

# PARKING GARAGE SYSTEM

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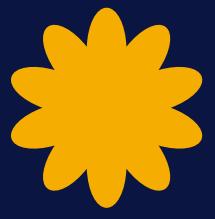
PHASE 3 - FINAL PROJECT



# OVERVIEW

- 1 TOPIC
- 2 REQUIREMENTS
- 3 USE CASES
- 4 DEMO
- 5 EXPLANATION





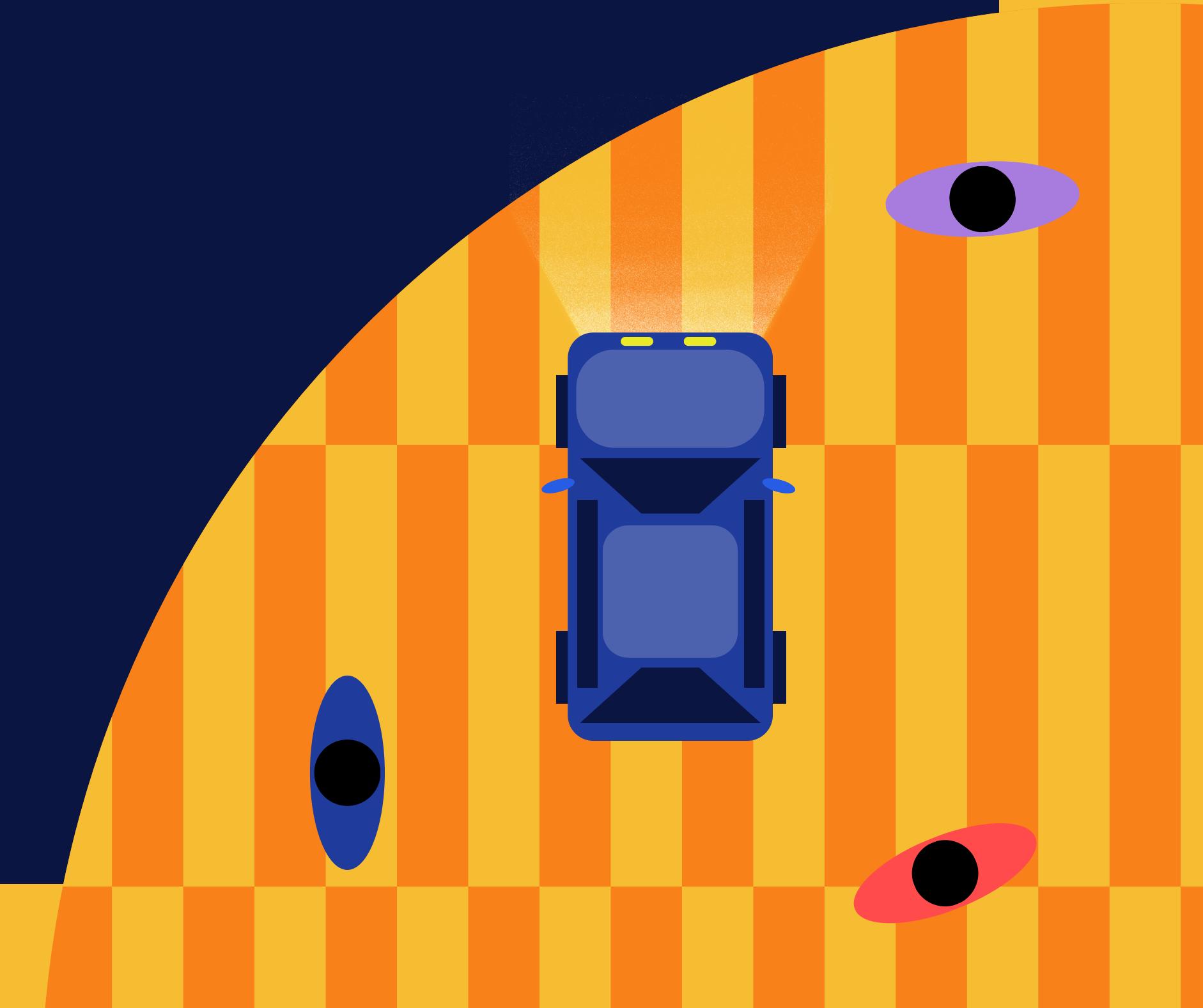
## TOPIC DESCRIPTION

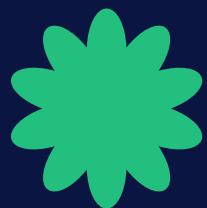
- Parking garage system will:
  - Allow customers to enter and park for a fee.
  - Track available parking spaces and display dynamically.
  - Charge customers upon leaving the garage based on the duration of their stay.
- Use GUI for client side app that communicates with the server side.



# REQUIREMENTS

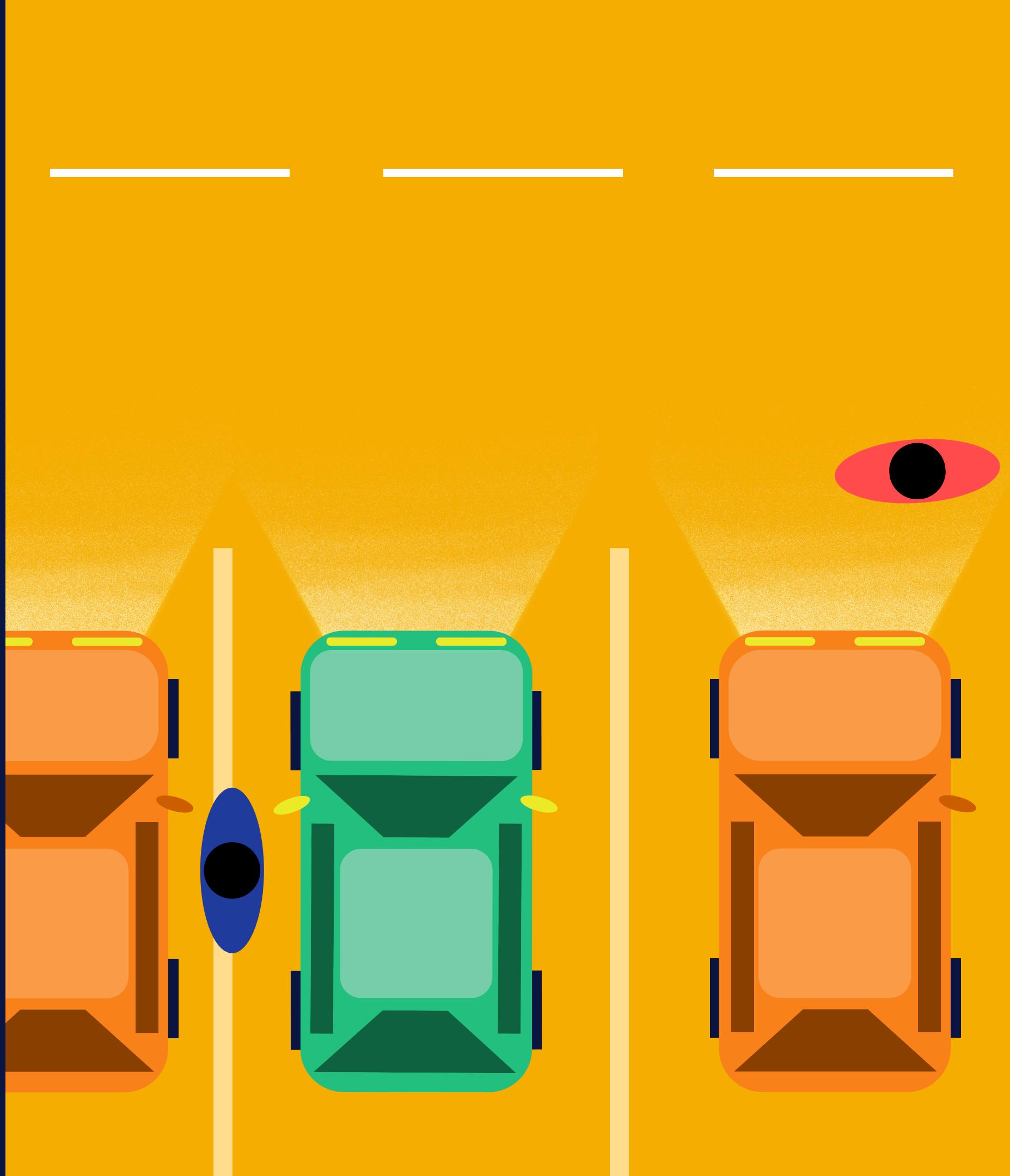
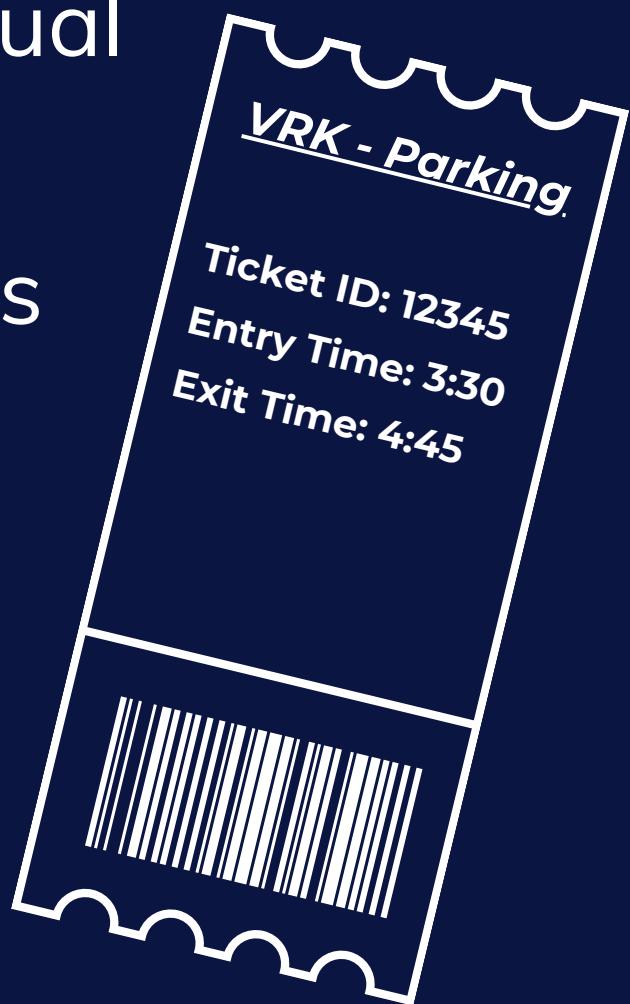
- 1 PAYMENT METHOD
- 2 PARKING DURATION
- 3 PARKING SPACE TRACKING
- 4 CONCURRENT CLIENT HANDLING
- 5 GRAPHICAL USER INTERFACE
- 6 EMPLOYEE LOGIN
- 7 USAGE REPORT
- 8 MULTI GARAGE MANAGEMENT
- 9 ERROR HANDLING





## USE CASES

1. Login & Logout
2. Ticket Handling
3. Handling Parking Data
4. Payment Processing
5. Automatic vs Manual Payment
6. Add Parking Levels



# FINAL CLASSES

- 35 Classes in Total

```
✓ adapter
  > BuildParkingGarage.java
  > CreateGarage.java
  > GarageEmployee.java
  > ParkingGarageSystem.java
  > Ticketing.java
  > UpdateGarage.java
```

```
✓ scale
  > EntryKioskClientGUI.java
  > ExitKioskClientGUI.java
  > ParkingGarageServer.java
  > PaymentFrame.java
  ┌─ testing
  └─ util
    > FileIO.java
    > module-info.java
    └─ README
  > log
    └─ garage_log.txt
```

```
✓ driver
  > Driver.java
✓ exception
  > FixAdapter.java
  > FixModel.java
  > FixScale.java
  > ParkingExceptions.java
✓ modules
  > Address.java
  > Customer.java
  > EntranceDisplayBoard.java
  > EntryKiosk.java
  > ExitKiosk.java
  > Gate.java
  > Hardware.java
  > LevelDisplayBoard.java
  > ParkingGarage.java
  > ParkingLevel.java
  > ParkingSpace.java
  > Payment.java
  > SystemLog.java
  > Ticket.java
✓ personnel
  > AccessEmployeeControl.java
  > Admin.java
  > AuthenticationManager.java
  > Employee.java
  > ParkingAttendant.java
  > User.java
```



# WHOS READY FOR A DEMO?

PHASE 3 - FINAL PROJECT

