Assignment 2

CMPSC 487 Software Engineering and Design

Individual Assignment (50 points)

Assignment Software IDEA: Mr. Johnson has been an independent driver for delivery services (such as Amazon Flex, Door Dash, and Uber Eats). Last month, he bought a fleet of cars and started up a business that rents them out to other independent drivers. As the business grows, he wants to hire you to develop a software system that helps manage renting. The following bullet points are from your discussion with Mr. Johnson:

- A driver needs to make a reservation for a specific type of car (sedans, SUVs, pick-ups, or vans) at least 24 hours before the check-out.
- A driver can request an extension for the return date/time and will be granted if there are no reservations on that vehicle.
- The renting charges are different for different types of cars. The charges will be updated from time to time. A rent that is a week or longer may get a discount.

TO DO:

You are asked to implement Mr. Johnson's Application discussed above. You are free to select the programming language and the database management system. Your implementation must have the following properties:

- A database is required (MySQL/Firebase/MongoDB)
  Table names: Reservations (please do not change the name)
- Graphic User Interface (GUI) is required.
  Interface Page 1: Mr. Johnson can see the list of people and reservation details.
  Interface Page 2: Any drivers can fill up a reservation form.

To show your implementation works, take screenshots or a video of how the operations are performed. All code and screenshots/videos must be pushed to a GitHub repository.

What to submit:

Database system (e.g MySQL):	
Programming language (e.g Java):	
GitHub link:	

Grading scheme:

All operations are functioning:	45-50 points
Some but not all operations are functioning:	35-45 points
The program does not run but the code is serious enough:	25-35 points
The program is far from complete:	15-15 points
Little or no effort:	0-15 points