



American International University- Bangladesh

CSC 2209: Object Oriented Programming 1 (JAVA)

CO1 Evaluation Project Summary Report Summer 18-19

Group No: K08

Project Title: Car Parking Management System

Student Name	Student Id
Rahman, Mashiur	17-35683-3
Amlan, Syed Afridi Rahman	17-35630-3
Readoy, Yeasin Arafat	17-35870-3
Rikta, Sanzida Afroze	17-34625-2

Car Parking Management System

Introduction:

This project is developed for parking car. The Parking Management System provides electronic monitoring and management of parking facilities. This project is to store information of management system, where the information of the cars and employees are being stored associated with the parking system.

User Category:

There are two types of Users here. They are:

- Operator
- Manager

Feature List:

In this project the “Operator” has the following features:

- Login
- Insert Data
- Update Data
- Delete Data
- Search Data
- View Car Information

In this project the “Manager” has the following features:

- Login
- View All Information
- Manage Employees
- Insert, Update, Delete, Search Data

GUI Description:

Give a screen shot of some GUIs and write a very small description (Maximum 40 words) for each of the GUIs.



This is login Frame, where a user insert there user ID & password to login to the system. There is Exit button to exit the program and show button to view password.



Car Parking Management System

Database Table Description:

localhost / 127.0.0.1 / k00 / log

localhost/phpmyadmin/to_structure.php?db=k00&table=log

Server: 127.0.0.1 - Database: k00 - Table: login

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	uid	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	password	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	status	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after status Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	UNIQUE	BTRFF	Yes	No	uid	5	A	No	

localhost / 127.0.0.1 / k00 / em

localhost/phpmyadmin/to_structure.php?db=k00&table=employees

Server: 127.0.0.1 - Database: k00 - Table: employees

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	eid	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	ename	varchar(20)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	designation	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
4	salary	double			No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after salary Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTRFF	Yes	No	eid	5	A	No	

localhost / 127.0.0.1 / k00 / can

localhost/phpmyadmin/to_structure.php?db=k00&table=carsinfo

Server: 127.0.0.1 - Database: k00 - Table: carsinfo

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	cRegNumber	varchar(20)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	tokenNumber	int(10)			No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	date	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More
4	time	varchar(30)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after time Go

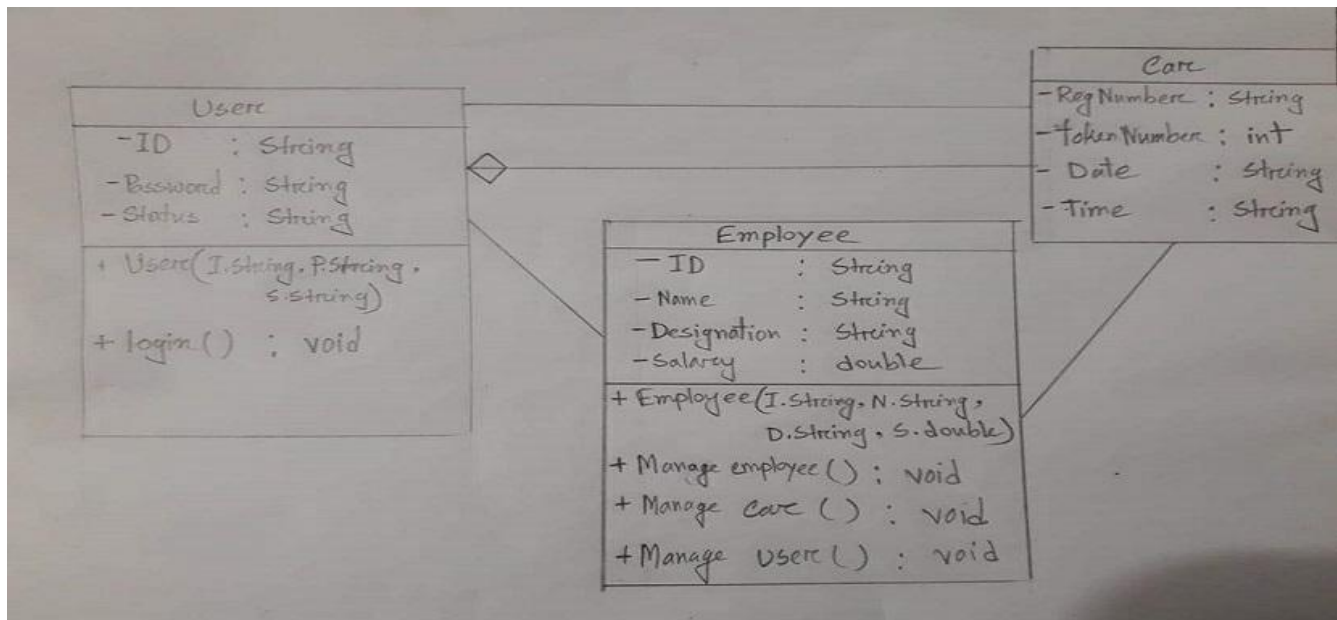
Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTRFF	Yes	No	cRegNumber	5	A	No	
Edit Drop	UNIQUE	BTREE	Yes	No	tokenNumber	5	A	No	



Car Parking Management System

Class Diagram:



Tools Used:

To develop this project we have used the following:

- Xampp
- Notepad++

OOP and Java Concepts Used:

- Encapsulation: Encapsulation is the mechanism of binding one attribute with a method. It is done, so that we can not access the attribute directly.
- Inheritance: Inheritance is the mechanism of creating a new class from an existing class. The keyword **extends** is used to denote inheritance.
- Interface: Interface is just like an abstract class where all the methods are abstract. It is denoted with the keyword **interface**.
- GUI: GUI means Graphical User Interface.



Car Parking Management System

Impact of this Project:

What impact this project will have on the society and economy?

- ➔ The system is made more efficient as vehicle travel time and search time are significantly reduced due to the information provided by the smart parking system. With the information provided, drivers are able to avoid car park that are fully occupied and locate vacant parking spaces with ease elsewhere.

How will people be benefitted from your project?

- ➔ Increased Protection. With its technologically advanced security features, parking management systems can give you upgraded security, safety and privacy. Parking management systems prevent unauthorised access to your parking lots, as a result, car owners will have increased confidence that their cars are well protected

Limitations and Possible Future Improvements:

Limitations:

1. It may be a bit confusing for unfamiliar users.
2. It requires a maintenance contract with the supplier
3. There may be a fear of breakdown (How do I get my car out?)

Possible Future Improvements:

1. Artificial intelligence can be added to the system.
2. Payment method can be added to the system.
3. Booking method can be added to the system for online booking.

