

Kod Projek :

BITU 2913



UNIVERSITI TEKNIKAL MALAYSIA MELAKA  
FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

WORKSHOP 1  
PROPOSAL FORM

[Incomplete form will be rejected]

**A** **TITLE OF PROPOSED PROJECT: Car Rental System**

*Tajuk projek yang dicadangkan :*

**Project Domain:**

*Domain Projek:*

☐ BUSINESS & SERVICES ☐ HEALTHCARE ☒ TRANSPORTATION ☐ COMMUNITY SERVICESS  
☐ AUTOMOTIVE ☐ AGRICULTURE ☐ OTHERS : \_\_\_\_\_

**B** **DETAILS OF STUDENT / MAKLUMAT PELAJAR**

**B(i)** **Name of Student:** Muhammad Izham Bin Norhamadi

*Nama Pelajar:*

**Identity card no.:** 000401-14-0187

*No. Kad Pengenalan :*

Student matric no.: B032020039

**No. Matrik Pelajar :**

**Programming I (DITP 1113) & Programming II  
(DITP 1123) Grade :**

☒ A ☐ A- ☐ B+ ☐ B ☐ B- ☐ C+ ☐ C ☐ C- ☐ D

**B(ii)** **Correspondence Address :**

*Alamat Surat Menyurat :* B2-3-24, Jalan Bukit Rawang Putra 15, Taman Bukit Rawang Putra, 48000, Rawang, Selangor

**B(iii)** **Course:**

*Kursus:*

☐ BITC ☒ BITZ ☐ BITE ☐ BITI ☐ BITM ☐ BITS ☐ BITD

**B(iv)** **Home Telephone No.:**

*No. Telefon Rumah:*

**Handphone No.:**

*No. Telefon Bimbit:* 019 - 6702850

<b>B(v)</b>	<b>E-mail Address:</b> Alamat e-mel: B032020039@student.utm.edu.my
<b>C</b>	<b>PROJECT INFORMATION / MAKLUMAT PROJEK</b>
<b>C(i)</b>	<b>Duration of this project:</b> <i>Tempoh masa projek ini:</i>  Duration: <u>10 weeks</u> <i>Tempoh :</i>  From : <u>15/3/2021</u> <i>Dari :</i>  To : <u>25/05/2021</u> <i>Hingga :</i>
<b>C(v)</b>	<b>Executive Summary of Project Proposal (maximum 300 words)</b> <b>(Please include the background of project, problem statements, objectives, scope and project significance from the project)</b>  <i>Ringkasan Cadangan Eksekutif Projek (maksima 300 patah perkataan)</i> <i>(Meliputi latar belakang projek, pernyataan masalah, objektif dan kepentingan projek)</i>  <p>The project title proposed by this project is Car Rental System. Car Rental System aims to create a simple system that allows users to find and rent a car and car owners to rent their own car for an income with an automated rental system that keeps track of the vehicles. One of the problems faced by rental agencies is that rental car owners might find it difficult to reach customers without a proper platform to advertise their rental cars. Other than that, it is a chore for rental owners to keep track of all their rented vehicles. Furthermore, the customer might find it difficult to find a vehicle that suits their need.</p> <p>The objectives of this project are to develop and design a vehicle rental system that suits the vehicle owners and renters need of automated system, to assess the requirements of a rental system and to make recommendations based on observations of the current vehicle rental system. The modules to be developed for this project are Login module, Renting module, Vehicle list, and Vehicle returning. The target users for this system are car owners and travellers.</p> <p>The inspiration to create this system came from the surge of automobiles renting market nowadays. An automated renting system can provides benefits for both owners and renters such as fast rental process and organized list of rented cars.</p>

**C(vi)**

**Detailed proposal of project:**

*Cadangan maklumat projek secara terperinci:*

**(a) Project background including Introduction and Problem Statements**

*Keterangan latar belakang projek termasuk pengenalan dan pernyataan masalah.*

*1. Introduction*

- Car rental is a business service that rent vehicles for a short period of time for a fee. Car rental agencies mostly attracts customers that requires temporary transportation vehicle whether they are travelling or having their cars out of service at the moment. Car rental agency sometimes offer other various automobiles such as motorcycles, vans, or trucks that suits the market. Some of the notable car rental agencies in Malaysia are SOCAR and Moovby. These agencies are highly praised for their quick services, perfect for customers urgently in need of transportation vehicle.

Car Rental System aims to create a simple and user friendly system that allows car owners and users alike to find a car to rent or rent their own car for an income with an automated system that keeps track of the vehicles

*2. Problem Statements*

- Rental car owners might find it difficult to reach an audience without a proper platform to advertise their rental cars. Plus, without an automated system a contract needs to be made between the owner and the consumer to sign a rent agreement which can be time consuming. Besides, it is a hassle to note and keep track of all the rented cars. Consumer might also find it difficult to find a rental car that suits their needs.

**(b) Objective (s) of the Project**

*Objektif Projek*

**Example / Contoh:**

***This project embarks on the following objectives:***

- 1. To develop and design a vehicle rental system that suits the vehicle owners and renters need of automated system.*
- 2. To assess the requirements of a rental system.*
- 3. To make recommendations based on observations of the current vehicle rental system.*

**(c) Scope**

### Skop

#### 1. Module to be developed

##### - Login

Authorize login to owner or user account with username and password

##### - Renting

Vehicle owners can rent their cars by entering the vehicle details and naming the rent price. They can also see the list of their rented vehicles.

##### - Vehicle List

User can get a list of vehicles to choose to rent them and set the duration of the rent

##### - Vehicle returning

User can choose to return the rented car earlier than the agreed date. The cost will automatically be calculated based on the duration of the rent and display it for the user.

#### 2. Target User

##### - Car owners

Car owners can easily rent their cars by registering it in the system and find consumers that are interested while earning an income.

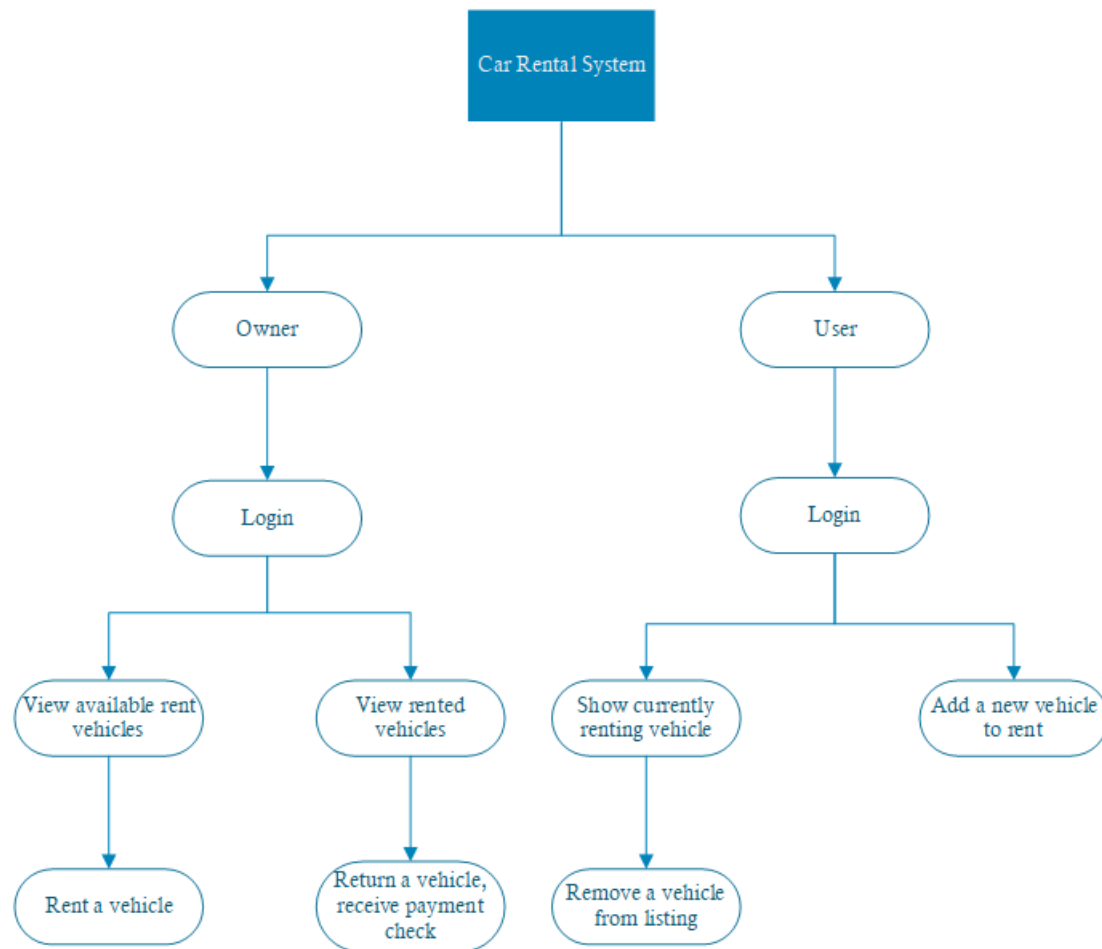
##### - People that travels a lot without their own transportation

Travelers may need a temporary transportation if they are moving around a lot and might be tempted to rent a vehicle.

### Problem Decomposition Description

PROBLEM	SOLUTION
1- Manual rental agreement It is a hassle for user to sign a rental agreement manually	Have an automated system that saved rental agreement automatically to the database
2- Manual rental cars tracking Manually, car owners need to keep track of their cars, the person renting it and how long they have been renting	The system will keep track of cars and calculate the rent duration for every vehicle owners
3- Owner - User connection User may find it difficult to find rental owners that have the vehicle that they wanted	A system that lists all available rent vehicles for user's convenience of vehicle searching

## Structure Chart



### (d) Project Significance

*Kepentingan projek*

#### 1. Motivation and Inspiration for the project

Vehicle renting market has been surging lately since an automated system can speed up the process of renting and consumer can easily search for a vehicle that suits their need. Automobiles have also gotten cheaper making buying and renting vehicles a potential business venture. Thus, both vehicle owners and renters benefits from an automated vehicle renting system.

### (e) Gantt Chart of Project Activities

*Carta Gantt Aktiviti Projek*

ID	Task Name	Start	Finish	Duration	Mar 2021			Apr 2021			May 2021		
					14/3	21/3	28/3	4/4	11/4	18/4	25/4	2/5	9/5
1	Planning												
2	Project Planning	15/3/2021	21/3/2021	7d									
3	Proposal writing	22/3/2021	26/3/2021	5d									
4	Design												
5	Database Design	29/3/2021	5/4/2021	8d									
6	Implementation												
7	Functions implementation	6/4/2021	5/5/2021	30d									
8	Database implementation	12/4/2021	5/5/2021	24d									
9	Testing												
10	System testing	6/5/2021	11/5/2021	6d									
11	Evaluation												
12	System evaluation	11/5/2021	16/5/2021	6d									

<b>D</b>	<b>REFERENCES</b>
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|  | <ul style="list-style-type: none"> <li>- alexsoft, 4 November 2020, Car Rental Reservation System: Modules, Providers, and Implementation Models, <a href="https://www.altexsoft.com/blog/car-rental-reservation-system/">https://www.altexsoft.com/blog/car-rental-reservation-system/</a></li> <li>- Wikipedia, <a href="https://en.wikipedia.org/wiki/Car_rental">https://en.wikipedia.org/wiki/Car_rental</a></li> </ul> |
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<b>E</b>	<b>ACCESS TO EQUIPMENT AND MATERIAL (PLEASE LIST IN DETAIL) / KEMUDAHAN SEDIA ADA UNTUK KEGUNAAN BAGI PROJEK INI (SILA SENARAIKAN DENGAN TERPERINCI)</b>
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	University <i>Universiti</i>	Other Sources or Places <i>Lain-lain tempat/sumber</i>
		<p><b>Software:</b></p> <p>Microsoft Visual Studio 2019, Xampp, phpMyAdmin</p> <p><b>Hardware:</b></p> <p>Laptop</p>

<b>F (i)</b>	<b>Declaration by student/ Akuan Pelajar</b>
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	<p><b>Date : 26/3/2021</b> <i>Tarikh :</i></p> <p><b>Student's Signature :</b> <i>Tandatangan Pelajar :</i></p>
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