



UNIVERSITI
TEKNOLOGI
PETRONAS

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COURSE: TFB 1033 OBJECT ORIENTED PROGRAMMING

PROJECT TITLE: BRO FRESH AND CLEAN

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1.0 PROJECT DSICRIPTION

Overview

The application is designed to manage client and worker information, as well as specific details about car wash sessions. It aims to streamline the process of entering and viewing details related to car washes.

1. Client Information:

- **First Name:** Text field for entering the client's first name.
- **Last Name:** Text field for entering the client's last name.
- **Phone Number:** Text field for entering the client's phone number.
- **Car Plate Number:** Text field for entering the car's plate number.

2. Worker Information:

- **Worker Name:** Text field for entering the worker's name.
- **Worker ID:** Text field for entering the worker's ID.

3. Wash Options:

- **Water Wax:** Checkbox for selecting the water wax option.
- **Full Interior Detailing:** Checkbox for selecting full interior detailing.
- **Full Exterior Detailing:** Checkbox for selecting full exterior detailing.

4. Wash Session:

- **Start Time:** Text field for entering the start time of the wash session.
- **End Time:** Text field for entering the end time of the wash session.
- **Status:** Text field for entering the status of the wash session.

5. Action Button:

- **Enter All Info:** A button to submit all entered information.

6. Output Section:

- A section at the bottom of the interface likely intended to display output messages or logs.

Functionality

- The application allows users to input and manage information related to car wash services.
- The GUI is divided into sections for easy navigation and data entry.
- The checkboxes enable selection of specific car wash options, and the text fields capture relevant details about clients, workers, and the wash session.
- The "Enter All Info" button likely processes and stores the input data.

Potential Use Cases

- Car wash businesses can use this system to keep track of services provided to clients.
- Workers can be assigned to specific tasks and their IDs recorded for accountability.
- The system can help in scheduling and tracking the start and end times of wash sessions, improving operational efficiency.

Future Enhancements

- Implementing database integration to store and retrieve client and wash session information.
- Adding validation to ensure all necessary fields are filled out correctly before submission.
- Enhancing the output section to provide more detailed feedback and logs.

This project demonstrates a structured approach to managing car wash services, providing a clear and organized interface for users to enter and manage relevant data.

2.1 SCREENSHOT OF GUI

The screenshot displays a software window titled "Bro Fresh And Clean" with standard window controls (minimize, maximize, close). The interface is divided into several sections:

- Client Information (Light Blue Background):** Contains four input fields for "First Name:", "Last Name:", "Phone Number:", and "Car Plate Number:".
- Worker Information (Orange Background):** Contains two input fields for "Worker Name:" and "Worker ID:".
- Wash Options (Light Green Background):** Contains three checkboxes for "Water Wax:", "Full Interior Detailing:", and "Full Exterior Detailing:".
- Wash Session (Pink Background):** Contains three input fields for "Start Time:", "End Time:", and "Status:".

Below these sections is a grey bar with a button labeled "Enter All Info". At the bottom of the window is a large, empty rectangular box labeled "Output".

Explanation: -

This is the interface that the worker will insert all the information before the work started. All the information will be captured in the database.

2.2 SCREENSHOT OF DATABASE

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	First_Name	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
2	Last_Name	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
3	Phone_Num	varchar(12)	utf8mb4_general_ci		No	None			Change Drop More
4	Car_Plate	varchar(12)	utf8mb4_general_ci		No	None			Change Drop More
5	Worker_Name	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
6	Worker_ID	int(8)			No	None			Change Drop More
7	Water_Wax	tinyint(1)			No	None			Change Drop More
8	Interior	tinyint(1)			No	None			Change Drop More
9	Exterior	tinyint(1)			No	None			Change Drop More
10	Start_Time	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
11	End_Time	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
12	Status	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More

Indexes

Console

Press Ctrl+Enter to execute query

>SELECT * FROM `bfacdb`

Explanation: -

-This is the displayed table from the bfacdb database in phpMyAdmin contains columns for storing information about car wash sessions. It includes fields for the client's first name, last name, phone number, and car plate number, as well as the worker's name and ID. There are boolean fields for selecting wash options such as water wax, full interior detailing, and full exterior detailing. Additionally, it records the start and end times of the wash session and its status. This table structure facilitates efficient data management and retrieval for a car wash management system.

Server: 127.0.0.1 > Database: bfadb > Table: bfadb

Showing rows 0 - 3 (4 total. Query took 0.0002 seconds)

SELECT * FROM `bfadb`

Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	First_Name	Last_Name	Phone_Num	Car_Plate	Worker_Name	Worker_ID	Water_Wax	Interior	Exterior	Start_Time	End_Time	Status
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	ALTAF	ABU	01126766054	BJF 8980	ARI	2200	1	1	1	9:10 AM	9:50 AM	Completed
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Kidd	Iqbal	019873621	VGH 8271	Ryan	7890	1	0	1	11:00 AM	12:30 PM	Completed
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	ARON	KANADY	01121032422	HYZ 1010	Amer	9640	1	1	1	8:00 AM	8:02 AM	Completed
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	aiman	amir	01293213	BJG 7483	Abdul	12345	1	1	0	10:00 AM	11:00 AM	Completed

Check all With selected: Edit Copy Delete Export

Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Console

Press Ctrl+Enter to execute query

>SELECT * FROM `bfadb`

Explanation: -

-This is the displayed database table from the bfadb database in phpMyAdmin shows stored records of car wash sessions. Each row contains detailed information about a session, including the client's first and last name, phone number, and car plate number. It also includes the worker's name and ID, boolean indicators for water wax, interior, and exterior detailing services, and the start and end times of the wash session. This organized storage facilitates easy tracking and management of car wash activities and client interactions.

3.0 UML DIAGRAM

