National University-Manila

College of Computing and Information Technologies

Drivers' Payout and Information System

A Project Documentation for Advanced Database Systems

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TABLE OF CONTENTS

I. **INTRODUCTION**
Project Overview……3
Objectives……...3
Scope……..4
Technologies Used…….4

II. SYSTEM DESIGN
Database Design…….?
Entity-Relationship (ER) Diagram…….5
Schema Design……...6
Normalization……7

III. USER INTERFACE DESIGN
Wireframes……...10
Mockups……...12

IV. IMPLEMENTATION
Database Creation
SQL Scripts……..
Table Structures……
Data Insertion
Sample Data…….
Application Development
Front-end……..
Back-end……...

V. CONCLUSION
Summary of Work Done……...
Challenges Faced……..
Lessons Learned……...
Future Enhancements……...

I. INTRODUCTION

Project Overview

Our project focuses on the transportation sector, specifically making an app for drivers' earnings. Uber app lets customers schedule rides at predetermined locations with a set price and drivers accept it. We propose a solution for drivers' better app usage through aiming ride quotas, which is the targeted number of rides completed daily. An incentive is given for achieving the set target, leading to an increased revenue not only for the drivers but for the company as well. In this initiative, drivers will utilize technological devices to interact with our innovative software system. This system not only facilitates drivers' easy-access transparency of their own dashboard, but also ensures that drivers have thorough documentation of their each completed journey, thereby enhancing their overall job satisfaction and finance monitoring.

System Objectives

The primary objective of this project is to empower drivers by providing them with dedicated monitoring software that transparently tracks their earnings. This innovative solution includes the following key features:

- **Earning Tracker:** This feature allows drivers to view a detailed summation of their daily earnings.
- **Trip Feature:** This attribute ensures transparency and helps drivers monitor the breakdown of the ride completed for easier income tracking. Information is derived through driver input.
- **Payout Feature:** This functionality enables drivers to withdraw their earnings. It provides a comprehensive summary of total daily ride fares, calculates gross earnings, deducts transport company service fees, and presents the net earnings clearly.
- **Profile Management:** Drivers can easily edit and update their profiles, ensuring their personal information is always current and accurate.
- **Quota Feature:** This proposed feature incentivizes drivers to accept more rides by offering extra rewards upon meeting certain quotas. This not only motivates drivers

but also benefits the transport company through increased engagement and service uses.

By integrating these features, the software aims to enhance drivers' financial management and boost their overall engagement and productivity.

Scope

The primary focus of this project is to develop a transport software system designed to help drivers effectively monitor, observe, and track their completed bookings for accurate verification. This document provides a comprehensive overview of the system's functionality and benefits.

A key feature of the software is the introduction of a **quota system**, which incentivizes drivers to be more engaged and proactive in booking rides by offering rewards and additional benefits.

This project specifically targets drivers who utilize technology-based booking services. It excludes those who do not use such systems, as the software requires specific input information compatible only with modern booking and ride services.

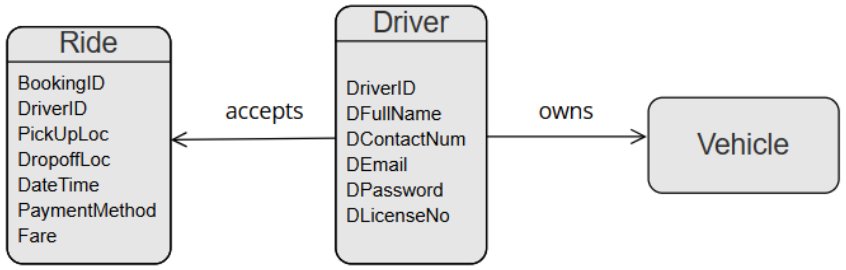
Technologies Used

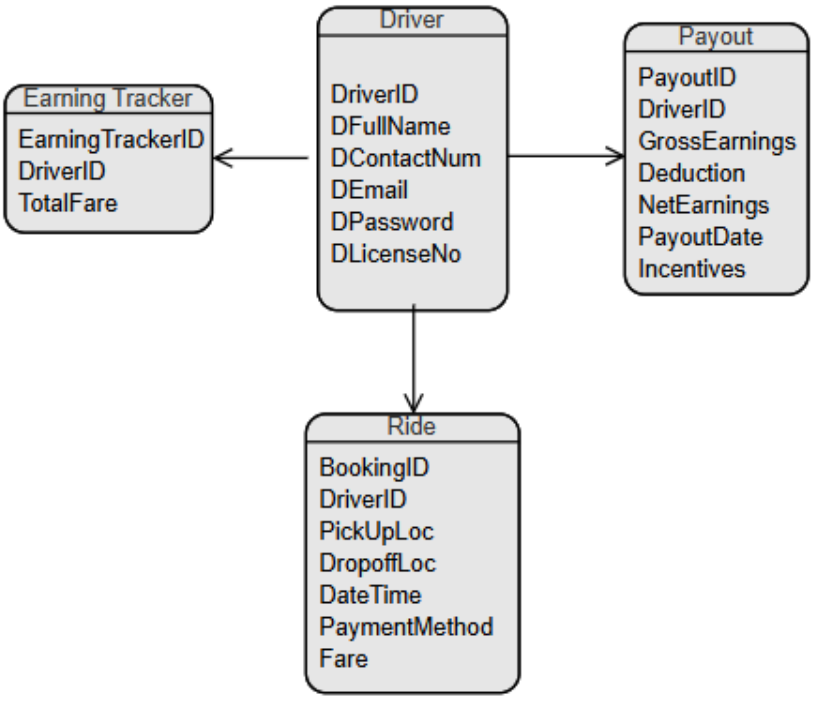
- *HTML*, one of the tools we have used is HTML for the front-end development.
- *JavaScript*, for back-end development.
- *PHP*, scripting language for the functionalities.
- *SQL*, database integration.
- *XAMPP*, database server.
- *phpMyAdmin*, for storing, manipulating, and retrieving data,

II. SYSTEM DESIGN

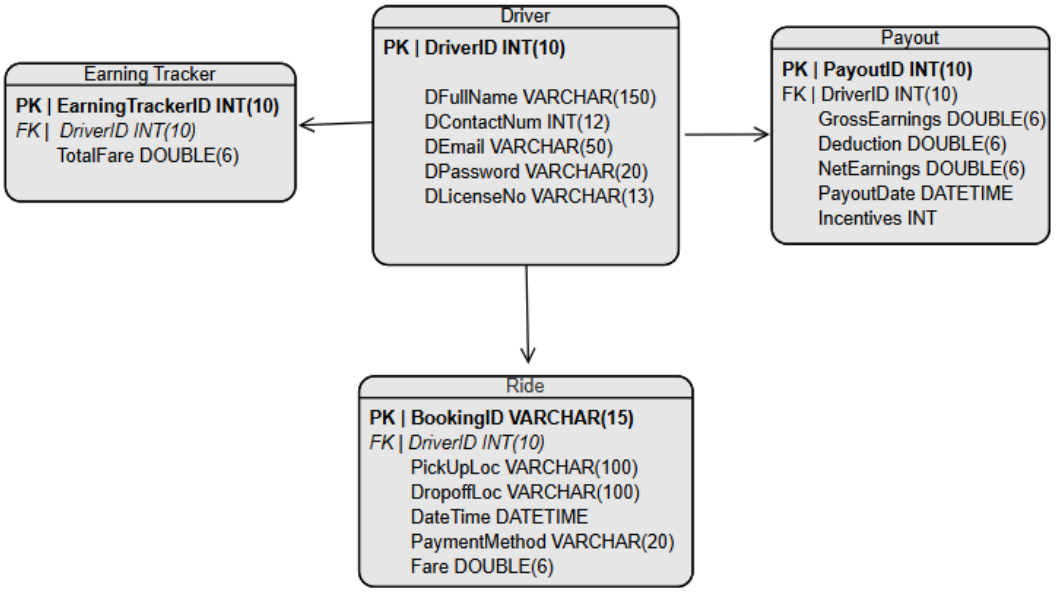
Database Design

Entity-Relationship Diagram (ERD)



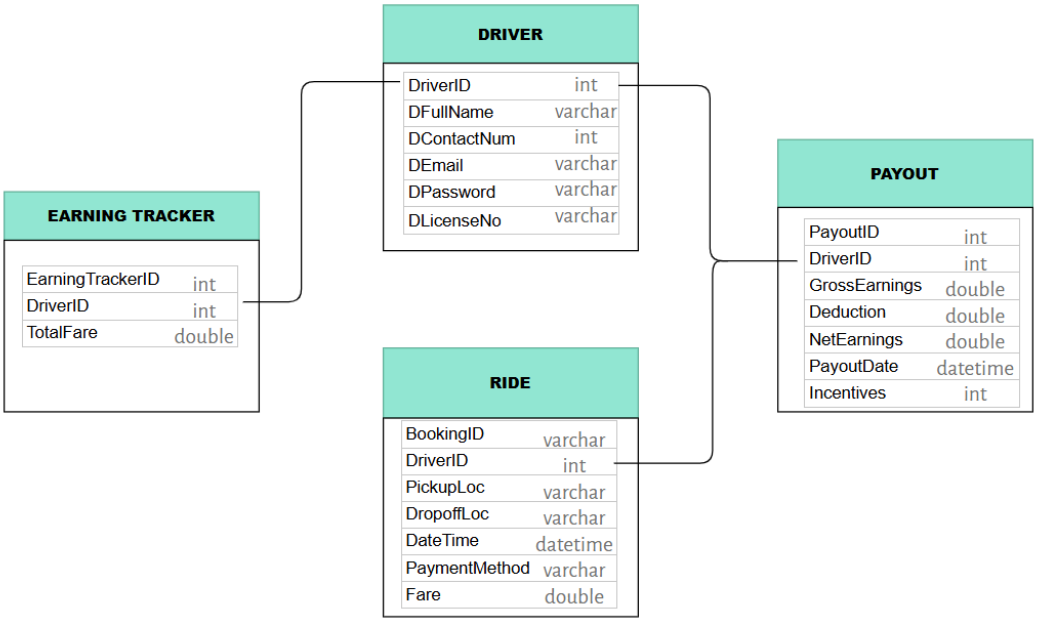


Logical ERD



Physical ERD

Schema Design



Normalization

A	B	C	D	E	F
ENTITIES	**ATTRIBUTES**	**DATATYPE**	**FIELD LENGTH**	**REMARKS**	**DESCRIPTION**
Earning Tracker	EarningTrackerID	int	10	Primary K	This entity displays the unique tracker id of the driver to access and derive the information easily
	DriverID	int	10	Foreign K	Unique key/Personal ID of driver
	TotalFare	double	6		Daily summation of driver rides earning
Ride	BookingID	varchar	15	Primary K	A confirmation sets of numeric and character after booking a reservation. (e.g BID-10983567239)
	DriverID	int	10	Foreign K	Unique key/Personal ID of driver
	PickupLoc	varchar	100		Passenger pick up location
	DropoffLoc	varchar	100		Passenger drop off location
	DateTime	datetime	YYYY-MM-DD hh:mm:ss		Booking appointment date and time
	PaymentMethod	varchar	20		Various option available to make payments
	Fare	double	6		Pickup to Drop-off location estimated charge amount
Payout	PayoutID	int	10	Primary K	Serves as ID for payout receipt
	DriverID	int	10	Foreign K	Personal ID of driver
	GrossEarnings	double	6		Daily total collected fare without deduction
	Deduction	double	6		20% of total collected fare
	NetEarnings	double	6		Daily total collected fare with deduction
	PayoutDate	datetime	MM-DD-YYYY hh:mm:ss		Date of payout
	Incentives	int			pre-defined amount for aiming ride quota
Driver	DriverID	int	10	Primary K	Unique key/Personal ID of driver
	DFullName	varchar	150		Driver's full name
	DContactNum	int	12		Driver's contact number
	DEmail	varchar	50		Driver's account email
	DPassword	varchar	20		Driver's account password
	DLicenseNo	varchar	13		Driver's License Number

Table containing Entities and Attributes.

<u>Denormalized Table:</u>

Driver Table:

EarningTrackerID	DriverID	DFullName	DContactNum	DEmail	DPassword
1000000003	1234567891	Cole Montano	2088976540	nicole@gmail.cor	nicole
1000000025	1987654305	Don Gomez	7787659041	don@gmail.com	dongom

BookingID	PickupLoc	DropoffLoc	DateTime	PaymentMethod	Fare
1	NU Manila	SM Manila	2024-03-23 08:18:34	Cash	50
2	UP Diliman	Robinsons Manila	2024-06-10 13:13:26	E-Cash	120

TotalFare	PayoutID	GrossEarnings	Deduction	NetEarnings	PayoutDate	Incentives
100	9876543210	50	10	40	2024-03-23 08:22:30	0
120	4567635429	120	24	96	2024-06-10 13:24:39	0

- It is in 1st Normal Form. A single cell holds only one value but there is no primary key yet since it is composed with different IDs.

DRIVER TABLE

DriverID	DFullName	DContactNum	DEmail	DPassword
1234567891	Cole Montano	2088976540	nicole@gmail.co	nicole
1987654305	Don Gomez	7787659041	don@gmail.com	dongom

PAYOUT TABLE

PayoutID	GrossEarnings	Deduction	NetEarnings	PayoutDate	Incentives
9876543210	50	10	40	2024-03-23 08:2	0
4567635429	120	24	96	2024-06-10 13:2	0

RIDE TABLE

BookingID	PickupLoc	DropoffLoc	DateTime	PaymentMethod	Fare
1	NU Manila	SM Manila	2024-03-23 08:1	Cash	50
2	UP Diliman	Robinsons Mani	2024-06-10 13:1	E-Cash	120

EARNING TRACKER TABLE

EarningTrackerID	TotalFare
1000000003	100
1000000025	120

- Each table now has a primary key. All other attributes are dependent on each primary key.

Normalized Table:

DRIVER TABLE

DriverID (PK)	DFullName	DContactNum	DEmail	DPassword	DLicenseNo
1234567891	Cole Montano	2088976540	nicole@gmail.co	nicole	123456789123
1987654305	Don Gomez	7787659041	don@gmail.com	dongom	765378982564

PAYOUT TABLE

PayoutID (PK)	DriverID (FK)	GrossEarnings	Deduction	NetEarnings	PayoutDate	Incentives
9876543210	1234567891	50	10	40	2024-03-23 08:22:30	0
4567635429	1987654305	120	24	96	2024-06-10 13:24:39	0

RIDE TABLE

BookingID (PK)	DriverID (FK)	PickupLoc	DropoffLoc	DateTime	PaymentMethod	Fare
1	1234567891	NU Manila	SM Manila	2024-03-23 08:18:34	Cash	50
2	1987654305	UP Diliman	Robinsons Manila	2024-06-10 13:13:26	E-Cash	120

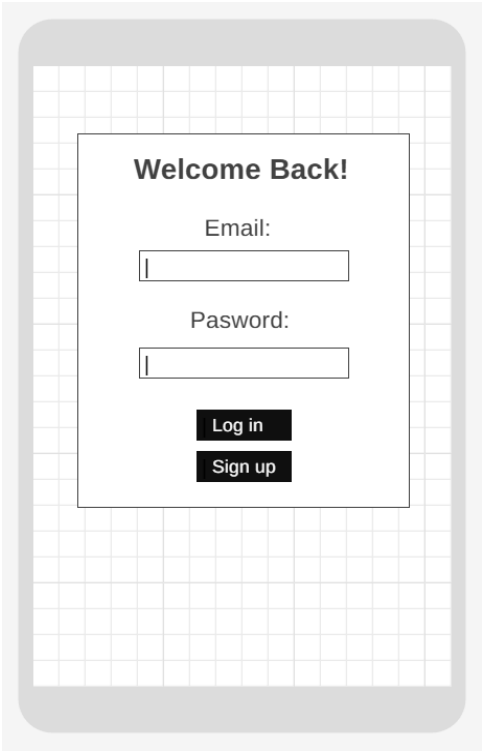
EARNING TRACKER TABLE

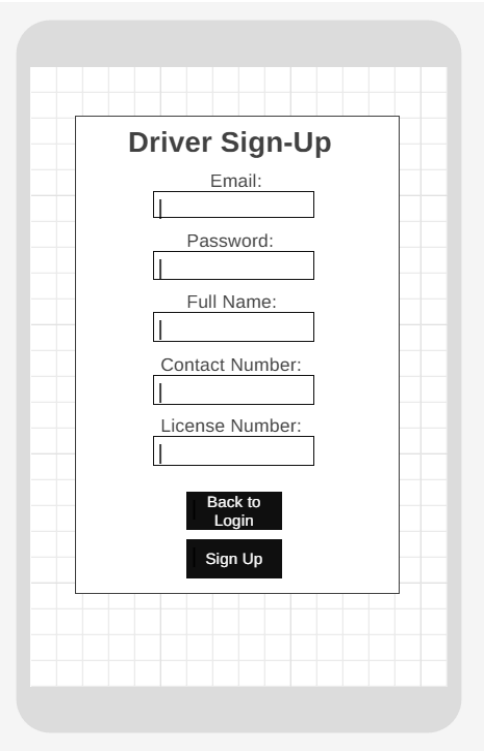
EarningTrackerID (PK)	DriverID (FK)	TotalFare
1000000003	1234567891	100
1000000025	1987654305	120

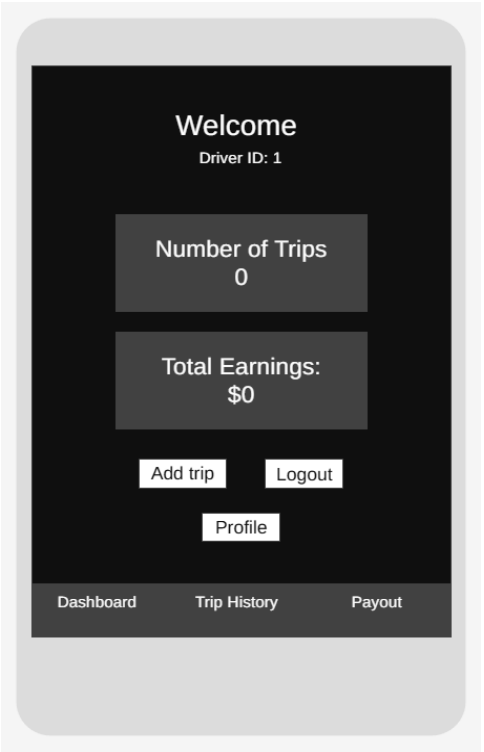
- A foreign key (DriverID, which is the Primary Key in Table: Driver) is added on the other three tables because of the connection it has to each table. There are no partial dependencies since each attribute is directly dependent on each table's primary key. Thus, this is in Third Normal Form.

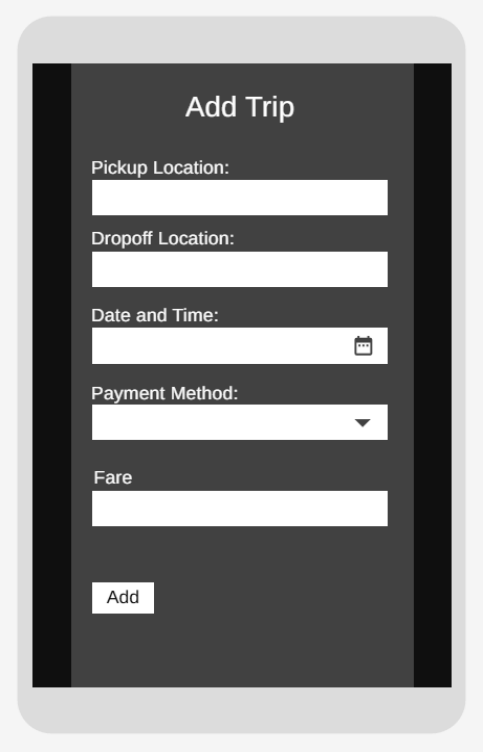
III. USER INTERFACE DESIGN

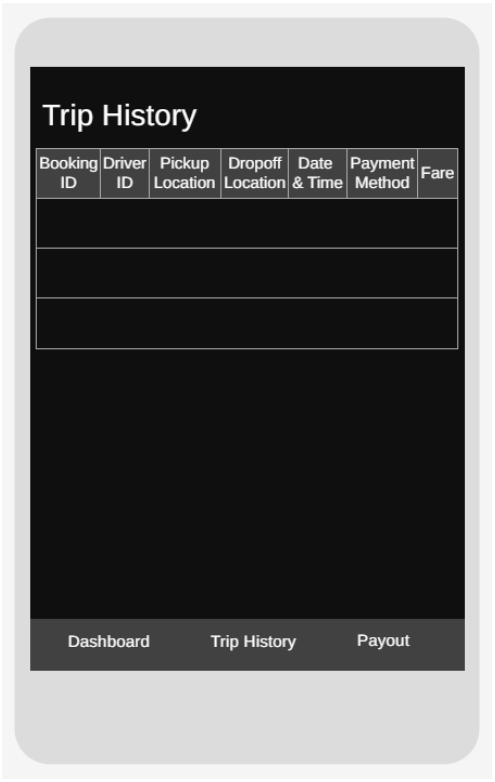
Wireframes

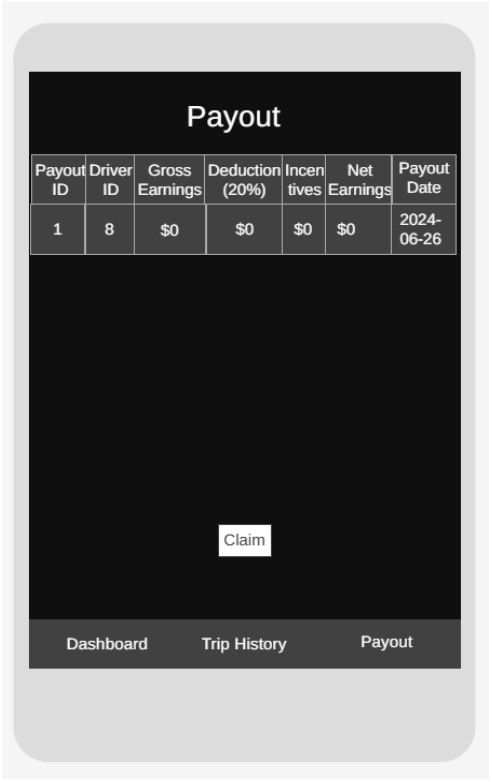


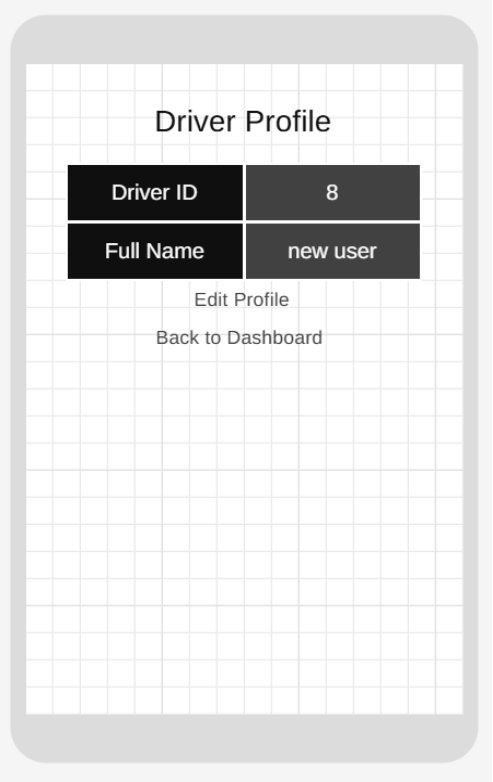




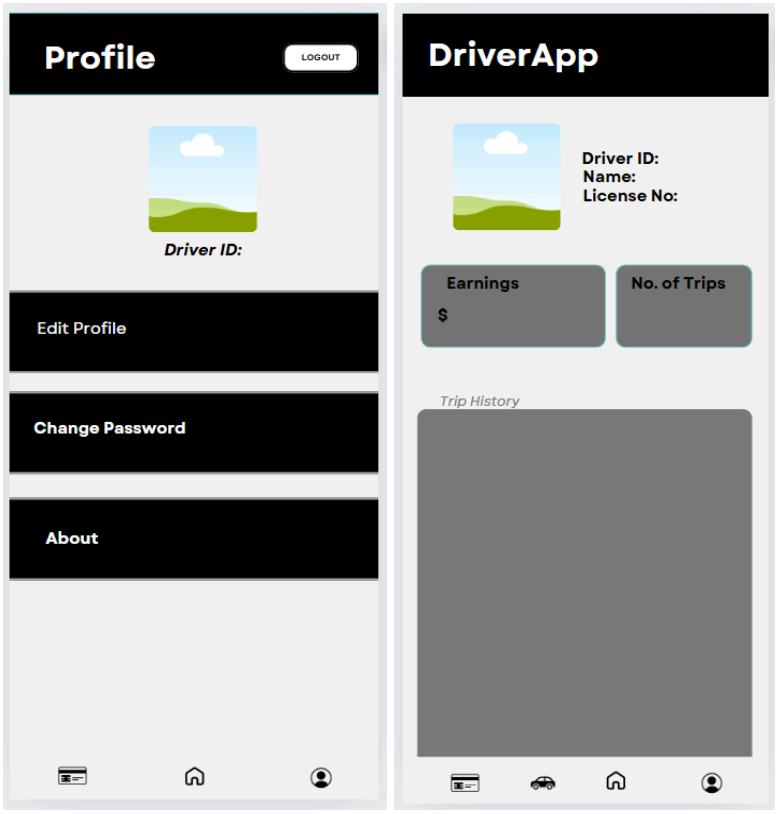


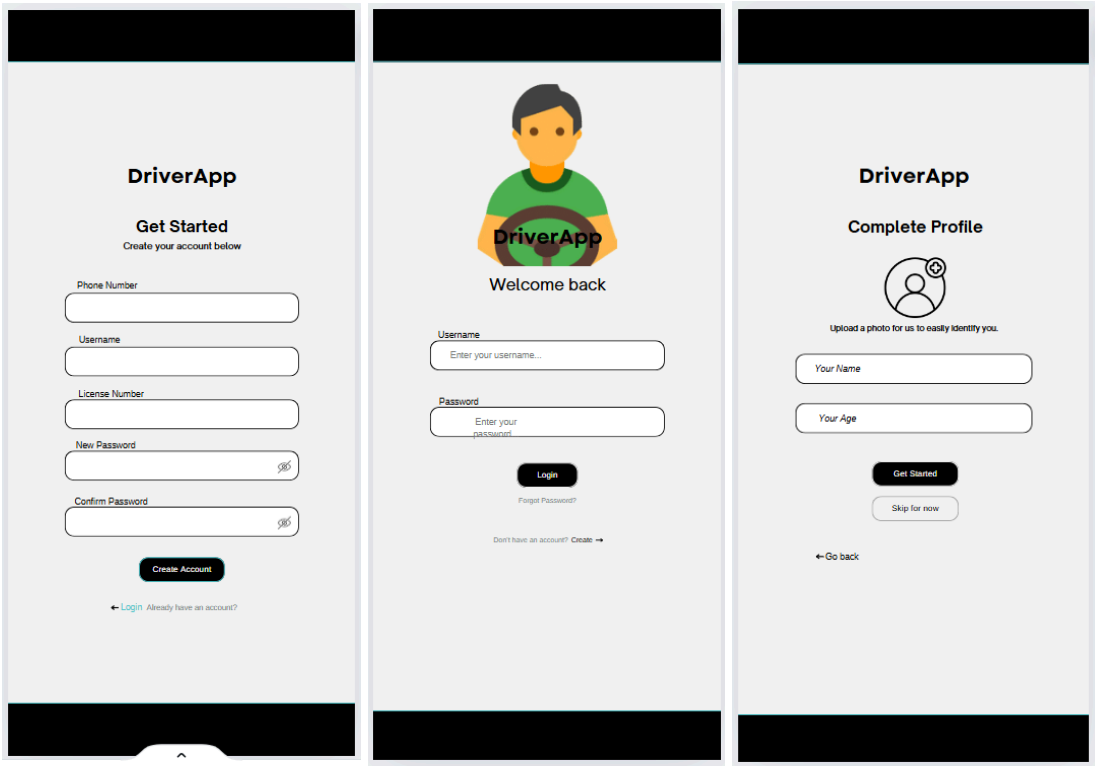

Trip History
Booking ID
Driver ID
Pickup Location
Dropoff Location
Date & Time
Payment Method
Fare
Dashboard
Trip History
Payout

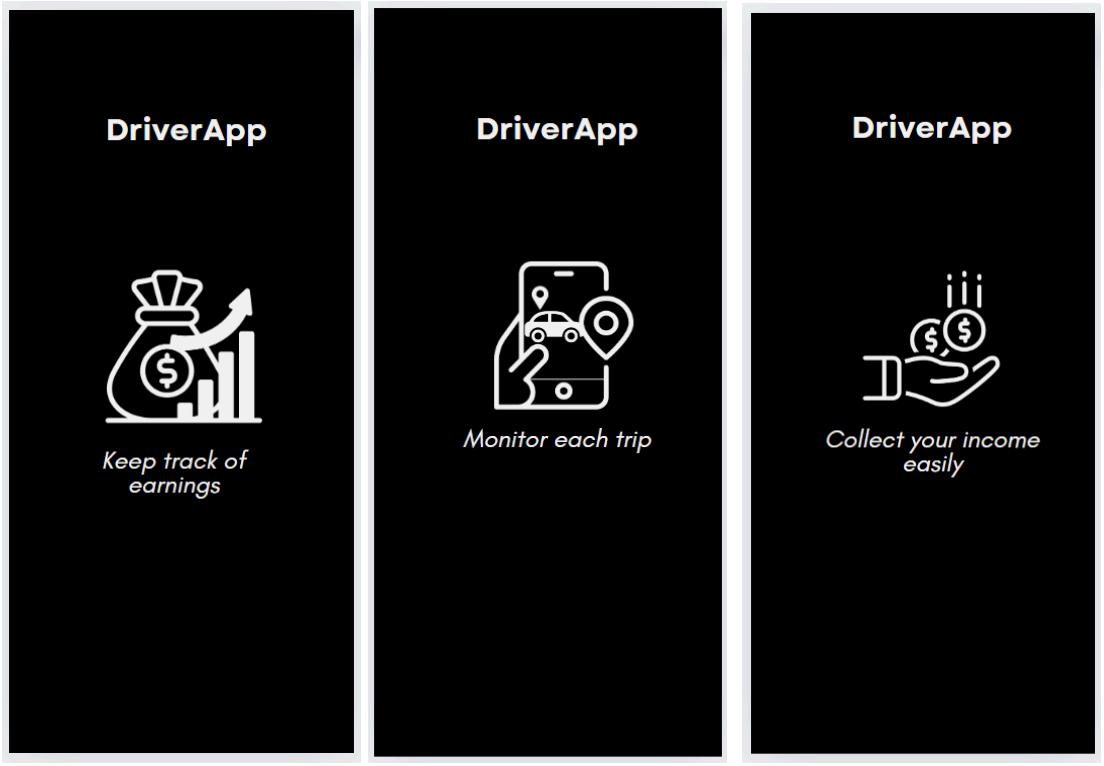

Payout
Payout ID
Driver ID
Gross Earnings
Deduction (20%)
Incentives
Net Earnings
Payout Date
1
8
$0
$0
$0
$0
2024-06-26
Claim
Dashboard
Trip History
Payout


Driver Profile
Driver ID
8
Full Name
new user
Edit Profile
Back to Dashboard

Mockups


Profile
LOGOUT
Driver ID:
Edit Profile
Change Password
About
DriverApp
Driver ID:
Name:
License No:
Earnings
$
No. of Trips
Trip History


DriverApp
Get Started
Create your account below
Phone Number
Username
License Number
New Password
Confirm Password
Create Account
Login Already have an account?
DriverApp
Welcome back
Username
Enter your username...
Password
Enter your password
Login
Forgot Password?
Don't have an account? Create
DriverApp
Complete Profile
Upload a photo for us to easily identity you.
Your Name
Your Age
Get Started
Skip for now
Go back


DriverApp
Keep track of earnings
DriverApp
Monitor each trip
DriverApp
Collect your income easily

IV. IMPLEMENTATION

SQL Scripts

Signup.php

```
   $email = mysqli_real_escape_string($conn, $_POST['email']);
   $password = mysqli_real_escape_string($conn, $_POST['password']);
   $fullname = mysqli_real_escape_string($conn, $_POST['fullname']);
   $contact_number = mysqli_real_escape_string($conn, $_POST['contact_number']);
   $license_number = mysqli_real_escape_string($conn, $_POST['license_number']);

   $sql = "INSERT INTO drivers (DEmail, DPassword, DFullName, DContactNum,
DLicenseNo)
           VALUES (?, ?, ?, ?, ?)";
```

Login_process.php

```
$email = $_POST['email'];
$password = $_POST['password'];

$sql = "SELECT * FROM drivers WHERE DEmail='$email' AND DPassword='$password'";
$result = $conn->query($sql);
```

Add_trip_process.php

```
   $driver_id = $_SESSION['driver_id'];
   $pickup_location = $_POST['pickup_location'];
   $dropoff_location = $_POST['dropoff_location'];
   $datetime = $_POST['datetime'];
   $payment_method = $_POST['payment_method'];
   $fare = $_POST['fare'];

   $sql = "INSERT INTO `trips` (DriverID, PickUpLoc, DropOffLoc, DateTime,
PaymentMethod, Fare)
```

```
          VALUES ('$driver_id', '$pickup_location', '$dropoff_location',
'$datetime', '$payment_method', '$fare')";
```

Edit_profile.php

```
 $driver_id = $_SESSION['driver_id'];
  $sql = "UPDATE drivers SET DFullname = ? WHERE DriverID = ?";
```

Trip_history.php

```
$sql_trip_history = "SELECT * FROM trips WHERE DriverID =
'{$_SESSION['driver_id']}' ORDER BY BookingID DESC";

$result_trip_history = $conn->query($sql_trip_history);
```

Payout.php

```
function getNumberOfTrips($driverID, $conn) {

   $sql = "SELECT COUNT(*) AS num_trips FROM trips WHERE DriverID = ?";
   $stmt = $conn->prepare($sql);
   $stmt->bind_param("s", $driverID);
   $stmt->execute();
   $result = $stmt->get_result();
   $row = $result->fetch_assoc();
   return $row['num_trips'];
}

   $sql_total_earnings = "SELECT SUM(Fare) AS total_earnings FROM trips WHERE
DriverID = ?";
   $stmt = $conn->prepare($sql_total_earnings);
   $stmt->bind_param("s", $_SESSION['driver_id']);
   $stmt->execute();
```

```
    $result = $stmt->get_result();
```

```
    $sql_update = "INSERT INTO payouts (DriverID, GrossEarnings, Deduction,
Incentives, NetEarnings, PayoutDate) VALUES (?, ?, ?, ?, ?, NOW())";
    $stmt_update = $conn->prepare($sql_update);
    $stmt_update->bind_param("sddds", $_SESSION['driver_id'], $total_earnings,
$deduction, $incentives, $net_earnings);
    $stmt_update->execute();
```

```
$sql_payouts = "SELECT * FROM payouts WHERE DriverID = ?";
$stmt_payouts = $conn->prepare($sql_payouts);
$stmt_payouts->bind_param("s", $_SESSION['driver_id']);
$stmt_payouts->execute();
$result_payouts = $stmt_payouts->get_result();
```

Table Structures

Drivers

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
☐	1	**DriverID** 🔑	int(10)			No	*None*		AUTO_INCREMENT
☐	2	**DEmail**	varchar(50)	utf8mb4_general_ci		No	*None*		
☐	3	**DPassword**	varchar(20)	utf8mb4_general_ci		No	*None*		
☐	4	**DFullName**	varchar(150)	utf8mb4_general_ci		No	*None*		
☐	5	**DContactNum**	int(12)			No	*None*		
☐	6	**DLicenseNo**	varchar(13)	utf8mb4_general_ci		No	*None*		

Payouts

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	**PayoutID**	int(11)			No	*None*		AUTO_INCREMENT
2	**DriverID**	int(11)			No	*None*		
3	**GrossEarnings**	int(11)			No	*None*		
4	**Deduction**	int(11)			No	*None*		
5	**Incentives**	int(11)			No	*None*		
6	**NetEarnings**	int(11)			No	*None*		
7	**PayoutDate**	datetime			No	current_timestamp()		

Rides

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	**BookingID**	int(10)			No	*None*		AUTO_INCREMENT
2	**DriverID**	int(10)			No	*None*		
3	**PickUpLoc**	varchar(100)	utf8mb4_general_ci		No	*None*		
4	**DropOffLoc**	varchar(100)	utf8mb4_general_ci		No	*None*		
5	**DateTime**	datetime			No	*None*		
6	**PaymentMethod**	varchar(20)	utf8mb4_general_ci		No	*None*		
7	**Fare**	double			No	*None*		

Sample Data

[drivers table]

DriverID ▲ 1	DEmail	DPassword	DFullName	DContactNum	DLicenseNo
3	paatmarga@gmail.com	pass	margarete paat	915263333	N01234567
23	example@gmail.com	example	margarete paat	915662627	N01234567
24	example2@gmail.com	example2	example usere	915662621	N01234569

[payouts table]

PayoutID	DriverID	GrossEarnings	Deduction	Incentives	NetEarnings	PayoutDate
8	3	45	9	0	36	2024-06-26 17:06:27
9	3	244	49	20	215	2024-06-26 17:11:42
10	3	244	49	20	215	2024-06-26 17:12:28
12	23	30	6	0	24	2024-06-26 21:10:04
13	23	65	13	0	52	2024-06-26 21:10:39

[trips table]

BookingID	DriverID	PickUpLoc	DropOffLoc	DateTime	PaymentMethod	Fare
1000000046	3	sm	home	2024-06-05 20:09:00	e-cash	45
1000000047	3	nu	caloocan	2024-06-12 20:06:00	e-cash	24
1000000048	3	nu	caloocan	2024-05-27 22:12:00	cash	45
1000000049	3	sm	caloocan	2024-06-18 21:13:00	cash	10
1000000050	3	sm	home	2024-06-05 19:12:00	e-cash	35
1000000051	3	nu	home	2024-06-11 20:13:00	cash	24
1000000052	3	sm	caloocan	2024-06-20 21:14:00	e-cash	21
1000000053	3	sm	tondo	2024-06-26 17:10:00	cash	10
1000000054	3	nu	qc	2024-06-26 17:11:00	e-cash	12
1000000055	3	nu	antipolo	2024-06-27 17:11:00	e-cash	18
1000000057	23	sm	home	2024-06-25 14:09:00	e-cash	30
1000000058	23	nu	caloocan	2024-06-27 13:10:00	cash	35

Front-end

Index.php

```
<head>
```

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>DriverApp</title>
<link
  href="https://fonts.googleapis.com/css2?family=Roboto:wght@300&display=swap"
  rel="stylesheet"
/>
<style>
    body {
        font-family: Arial, sans-serif;
        background-image: url('nunsbg.jpeg');
        margin: 0;
        padding: 0;
    }

    header {
        background-color: hsl(0, 0%, 0%);
        color: #fff;
        text-align: center;
        padding: 1em;
        font-size: medium;
    }

    .container {
        width: 80%;
        max-width: 600px;
        margin: 0 auto;
        padding: 20% 0;
        text-align: center;
    }

    .section {
        display: none;
        padding: 20px;
        background-color: #fff;
        border: 1px solid gray;
        border-radius: 3px;
        box-shadow: 0px 2px 2px 0px gray;
    }

    .section.active {
        display: block;
    }

    .button-group {
```

```
            display: flex;
            justify-content: space-between;
            align-items: center;
            margin-top: 10px;
        }

        .button-group button {
            padding: 10px;
            width: 48%;
            max-width: 100px;
            background-color: hsl(0, 0%, 0%);
            border: 0px;
            color: white;
            cursor: pointer;
        }

        @media (max-width: 600px) {
            .container {
                padding: 40% 0;
            }

            .section {
                padding: 10px;
            }

            .button-group {
                flex-direction: column;
                gap: 10px;
            }

            .button-group button {
                width: 100%;
            }
        }
    </style>
</head>
```

Login.php

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Driver Login</title>
<style>
  body {
    font-family: Arial, sans-serif;
    background-color: #f0f0f0;
    color: #333;
    margin: 0;
    padding: 0;
  }

  .container {
    width: 80%;
    max-width: 600px;
    margin: 20px auto;
    padding: 20px;
    background-color: #fff;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0,0,0,0.1);
  }

  h1 {
    text-align: center;
    margin-bottom: 20px;
  }

  form {
    text-align: center;
  }

  label {
    display: block;
    margin-bottom: 8px;
  }

  input[type=email], input[type=password] {
    width: calc(100% - 20px);
    padding: 10px;
    margin-bottom: 20px;
    border: 1px solid #ccc;
    border-radius: 4px;
    font-size: 16px;
    box-sizing: border-box;
  }
```

```
  input[type=submit] {
    background-color: #000;
    color: white;
    padding: 10px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    font-size: 16px;
  }

  input[type=submit]:hover {
    background-color: #D8D8D8;
  }

  a {
    display: inline-block;
    margin-top: 10px;
    color: #333;
    text-decoration: none;
  }

  a:hover {
    color: #D8D8D8;
  }
 </style>
</head>
```

Signup.php

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Driver Sign-Up</title>
 <style>
   body {
     font-family: Arial, sans-serif;
     background-color: #000;
     color: #333;
     margin: 0;
     padding: 0;
   }
```

```css
.container {
  width: 80%;
  max-width: 600px;
  margin: 20px auto;
  padding: 20px;
  background-color: #fff;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0,0,0,0.1);
}

h1 {
  text-align: center;
  margin-bottom: 20px;
}

form {
  text-align: center;
}

label {
  display: block;
  margin-bottom: 8px;
}

input[type=email], input[type=password], input[type=text], input[type=tel] {
  width: calc(80% - 20px);
  padding: 10px;
  margin-bottom: 8px;
  border: 1px solid #ccc;
  border-radius: 4px;
  font-size: 16px;
  box-sizing: border-box;
}

input[type=submit] {
  background-color: #000;
  color: white;
  padding: 10px 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  font-size: 16px;
}

input[type=submit]:hover {
```

```
    background-color: #D8D8D8;
  }

  a {
    display: inline-block;
    margin-top: 15px;
    color: #333;
    text-decoration: none;
  }

  a:hover {
    color: #D8D8D8;
  }
 </style>
</head>
```

Dashboard.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>DriverApp</title>
  <link rel="stylesheet" type="text/css" href="navbar.css">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
      body {
          font-family: Arial, sans-serif;
          background-color: #000;
          color: #fff;
          margin: 0;
          padding: 0;
      }

      .container {
          width: 80%;
          max-width: 600px;
          margin: 0 auto;
          padding: 10% 0;
          text-align: center;
      }

      h2 {
          color: #fff;
```

```
}

.data-container {
    background-color: #333;
    padding: 20px;
    border-radius: 10px;
    margin-top: 20px;
    box-shadow: 0 0 10px rgba(0,0,0,0.5);
}

.data-container h3 {
    color: #fff;
}

.data-container p {
    color: #fff;
    font-size: 24px;
    font-weight: bold;
    margin-top: 10px;
}

button {
    padding: 10px 20px;
    background-color: #ooo;
    color: #000;
    border: none;
    cursor: pointer;
    font-size: 16px;
    margin: 20px;
    border-radius: 5px;
        }

.bottom-nav {
    width: 100%;
    background-color: #333;
    position: fixed;
    bottom: 0;
    left: 0;
    margin: 7px
    padding: 10px 0;
}

.bottom-nav ul {
    list-style-type: none;
    padding: 0;
```

```
            text-align: center;
        }

        .bottom-nav ul li {
            display: inline-block;
            margin-right: 20px;
        }

        .bottom-nav ul li a {
            color: #fff;
            text-decoration: none;
            font-size: 16px;
            padding: 10px;
            transition: all 0.3s ease;
        }

        .bottom-nav ul li a:hover {
            color: #ccc;
        }
    </style>
</head>
```

Profile.php

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Driver Profile</title>
  <style>
   body {
     font-family: Arial, sans-serif;
     background-color: #fff;
     color: #fff;
     margin: 0;
     padding: 0;
   }

   .container {
     width: 80%;
     max-width: 600px;
     margin: 0 auto;
     padding: 10% 0;
```

```
  text-align: center;
}

h1, p {
  color: #000;
}

table {
  width: 100%;
  border-collapse: collapse;
  margin-top: 20px;
}

table, th, td {
  border: 1px solid #fff;
  padding: 8px;
  text-align: center;
}

th {
  background-color: #333;
  color: #fff;
}

td {
  background-color: #555;
  color: #fff;
}

a {
  color: #000;
  text-decoration: none;
  font-size: 16px;
  padding: 10px;
  transition: all 0.3s ease;
}

a:hover {
  color: #D8D8D8;
}

.bottom-nav {
  width: 100%;
  background-color: #000;
  overflow: auto;
```

```
    position: fixed;
    bottom: 0;
    left: 0;
  }

  .bottom-nav ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
    text-align: center;
  }

  .bottom-nav ul li {
    display: inline-block;
    margin-right: 20px;
  }

  .bottom-nav ul li a {
    color: #000;
    text-decoration: none;
    font-size: 16px;
    padding: 10px;
    transition: all 0.3s ease;
  }

  .bottom-nav ul li a:hover {
    color: #D8D8D8;
  }
 </style>
</head>
```

Payout.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Payout</title>
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
      body {
```

```
        font-family: Arial, sans-serif;
        background-color: #000;
        color: #fff;
        margin: 0;
        padding: 0;
    }

    .container {
        width: 80%;
        max-width: 800px;
        margin: 0 auto;
        padding: 10% 0;
        text-align: center;
    }

    h1 {
        color: #fff;
    }

    table {
        width: 100%;
        border-collapse: collapse;
        margin-top: 20px;
    }

    table th, table td {
        border: 1px solid #fff;
        padding: 10px;
    }

    table th {
        background-color: #555;
    }

    table tr:nth-child(even) {
        background-color: #444;
    }

    table tr:hover {
        background-color: #666;
    }

    .bottom-nav {
        width: 100%;
        background-color: #333;
```

```
            position: fixed;
            bottom: 0;
            left: 0;
            padding: 10px 0;
            text-align: center;
        }

        .bottom-nav ul {
            list-style-type: none;
            padding: 0;
        }

        .bottom-nav ul li {
            display: inline-block;
            margin-right: 20px;
        }

        .bottom-nav ul li a {
            color: #fff;
            text-decoration: none;
            font-size: 16px;
            padding: 10px;
            transition: all 0.3s ease;
        }

        .bottom-nav ul li a:hover {
            color: #ccc;
        }
    </style>
</head>
```

Edit_profile.php

```
<?

<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Edit Profile</title>
 <style>
   body {
```

```
  font-family: Arial, sans-serif;
  background-color: #f0f0f0;
  color: #333;
  margin: 0;
  padding: 0;
}

.container {
  width: 80%;
  max-width: 600px;
  margin: 20px auto;
  padding: 20px;
  background-color: #fff;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0,0,0,0.1);
}

h1 {
  text-align: center;
  margin-bottom: 20px;
}

form {
  text-align: center;
}

label {
  display: block;
  margin-bottom: 8px;
}

input[type=text] {
  width: calc(100% - 20px);
  padding: 10px;
  margin-bottom: 20px;
  border: 1px solid #ccc;
  border-radius: 4px;
  font-size: 16px;
  box-sizing: border-box;
}

input[type=submit] {
  background-color: #000;
  color: white;
  padding: 10px 20px;
```

```
    border: none;
    border-radius: 4px;
    cursor: pointer;
    font-size: 16px;
  }

  input[type=submit]:hover {
    background-color: #D8D8D8;
  }

  a {
    display: inline-block;
    margin-top: 10px;
    color: #333;
    text-decoration: none;
  }

  a:hover {
    color: #D8D8D8;
  }
 </style>
</head>
```

Trip_history.php

```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Trip History</title>

  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
      body {
          font-family: Arial, sans-serif;
          background-color: #000;
          color: #fff;
          margin: 0;
          padding: 0;
```

```
}

h1, th, td {
    color: #fff;
}

table {
    width: 100%;
    border-collapse: collapse;
    margin-top: 20px;
}

table th, table td {
    border: 1px solid #fff;
    padding: 10px;
}

table th {
    background-color: #555;
}

table tr:nth-child(even) {
    background-color: #444;
}

table tr:hover {
    background-color: #666;
}

footer {
    position: fixed;
    bottom: 0;
    width: 100%;
    background-color: #333;
    padding: 10px 0;
    color: #fff;
    text-align: center;
}

.bottom-nav {
    width: 100%;
    background-color: #333;
    position: fixed;
    bottom: 0;
    left: 0;
```

```
            padding: 10px 0;
            text-align: center;
        }

        .bottom-nav ul {
            list-style-type: none;
            padding: 0;
            margin: 0;
        }

        .bottom-nav ul li {
            display: inline-block;
            margin-right: 20px;
        }

        .bottom-nav ul li a {
            color: #fff;
            text-decoration: none;
            font-size: 16px;
            padding: 10px;
            transition: all 0.3s ease;
        }

        .bottom-nav ul li a:hover {
            color: #ccc;
        }
    </style>
</head>
```

Back-end

Login_process.php

```
<?php
session_start();

$servername = "localhost";
```

```
$username = "root";
$password = "";
$dbname = "dapp";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
 die("Connection failed: " . $conn->connect_error);
}

$email = $_POST['email'];
$password = $_POST['password'];

$sql = "SELECT * FROM drivers WHERE DEmail='$email' AND DPassword='$password'";
$result = $conn->query($sql);

if ($result->num_rows > 0) {

   $row = $result->fetch_assoc();
 $_SESSION['driver_id'] = $row['DriverID'];
 $_SESSION['fullname'] = $row['FullName'];
  header("Location: dashboard.php");
} else {
 echo "Login failed. Invalid credentials.";
}

$conn->close();
?>
```

Signup.php

```
<?php
session_start();


$servername = "localhost";
$username = "root";
$password = "";
$dbname = "dapp";
```

```
$email = $password = $fullname = $contact_number = $license_number = "";


if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $conn = new mysqli($servername, $username, $password, $dbname);

    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }

    $email = mysqli_real_escape_string($conn, $_POST['email']);
    $password = mysqli_real_escape_string($conn, $_POST['password']);
    $fullname = mysqli_real_escape_string($conn, $_POST['fullname']);
    $contact_number = mysqli_real_escape_string($conn, $_POST['contact_number']);
    $license_number = mysqli_real_escape_string($conn, $_POST['license_number']);

    $sql = "INSERT INTO drivers (DEmail, DPassword, DFullName, DContactNum,
DLicenseNo)
            VALUES (?, ?, ?, ?, ?)";

    $stmt = $conn->prepare($sql);


    if ($stmt === false) {
        die('MySQL prepare error: ' . htmlspecialchars($conn->error));
    }

    $stmt->bind_param("sssss", $email, $password, $fullname, $contact_number,
$license_number);

    if (!empty($email) && !empty($password) && !empty($fullname) &&
!empty($contact_number) && !empty($license_number)) {
        if ($stmt->execute()) {

          header("Location: dashboard.php");
            exit();
        } else {
            echo "Error: " . $stmt->error;
        }
    } else {
        echo "All fields are required.";
    }
```

```
    $stmt->close();
    $conn->close();
}
?>
```

Dashboard.php

```
<div class="container">

        <h2>Welcome, <?php echo $_SESSION['DFullName']; ?></h2>
        <p>Driver ID: <?php echo $_SESSION['driver_id']; ?></p>

        <div class="data-container">
            <h3>Number of Trips</h3>
            <p><?php echo $total_trips; ?></p>
        </div>

        <div class="data-container">
            <h3>Total Earnings</h3>
            <p>$<?php echo number_format($total_earnings, 2); ?></p>
        </div>

        <a href="add_trip.php"><button>Add Trip</button></a>
        <a href="profile.php"><button>Profile</button></a>
         <a href="logout.php"><button>Logout</button></a>
    </div>

    <div class="bottom-nav">
        <ul>
            <li><a href="dashboard.php">Dashboard</a></li>
            <li><a href="trip_history.php">Trip History</a></li>
            <li><a href="payout.php">Payout</a></li>

        </ul>
    </div>
```

```
$total_earnings = getTotalEarnings($_SESSION['driver_id'], $conn);


$deduction = $total_earnings * 0.20;
$net_earnings = $total_earnings - $deduction;
```

```
$total_trips = getNumberOfTrips($_SESSION['driver_id'], $conn);



$conn->close();
?>
```

Add_trip_process.php

```
<?php

$servername = "localhost";
$username = "root";
$password = "";
$dbname = "dapp";



$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
 die("Connection failed: " . $conn->connect_error);
}

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $driver_id = $_SESSION['driver_id'];
   $pickup_location = $_POST['pickup_location'];
   $dropoff_location = $_POST['dropoff_location'];
   $datetime = $_POST['datetime'];
   $payment_method = $_POST['payment_method'];
   $fare = $_POST['fare'];

   $sql = "INSERT INTO `trips` (DriverID, PickUpLoc, DropOffLoc, DateTime,
PaymentMethod, Fare)
           VALUES ('$driver_id', '$pickup_location', '$dropoff_location',
'$datetime', '$payment_method', '$fare')";



   if ($conn->query($sql) === TRUE) {
       header("Location: dashboard.php");
       exit();
     }
 }
  $conn->close();
?>
```

Edit_profile.php

```
$fullname = $_SESSION['fullname'];

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
 $new_fullname = $_POST['new_fullname'];
  $servername = "localhost";
 $username = "root";
 $password = "";
 $dbname = "dapp";

  $conn = new mysqli($servername, $username, $password, $dbname);

 if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
 }

 $driver_id = $_SESSION['driver_id'];
  $sql = "UPDATE drivers SET DFullname = ? WHERE DriverID = ?";

 $stmt = $conn->prepare($sql);
 $stmt->bind_param("ss", $new_fullname, $driver_id);

 if ($stmt->execute()) {
   $_SESSION['fullname'] = $new_fullname;
   header("Location: profile.php");
   exit();
 } else {
   echo "Error updating record: " . $conn->error;
 }

 $stmt->close();
 $conn->close();

}
```

Payout.php

```
if (!isset($_SESSION['driver_id'])) {
   header("Location: login.php");
   exit();
}
```

```php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "dapp";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
}

$total_earnings = 0;
$deduction = 0;
$net_earnings = 0;
$incentives = 0;

function getNumberOfTrips($driverID, $conn) {

   $sql = "SELECT COUNT(*) AS num_trips FROM trips WHERE DriverID = ?";
   $stmt = $conn->prepare($sql);
   $stmt->bind_param("s", $driverID);
   $stmt->execute();
   $result = $stmt->get_result();
   $row = $result->fetch_assoc();
   return $row['num_trips'];
}

   $sql_total_earnings = "SELECT SUM(Fare) AS total_earnings FROM trips WHERE
DriverID = ?";
   $stmt = $conn->prepare($sql_total_earnings);
   $stmt->bind_param("s", $_SESSION['driver_id']);
   $stmt->execute();
   $result = $stmt->get_result();

if ($row = $result->fetch_assoc()) {
   $total_earnings = $row['total_earnings'];

   $deduction = $total_earnings * 0.20;

   $numberOfTrips = getNumberOfTrips($_SESSION['driver_id'], $conn);
   if ($numberOfTrips >= 10) {
       $incentives = 20;
   }
```

```
    $net_earnings = $total_earnings - $deduction + $incentives;
}

if ($_SERVER['REQUEST_METHOD'] == 'POST' && isset($_POST['claim'])) {


    $sql_update = "INSERT INTO payouts (DriverID, GrossEarnings, Deduction,
Incentives, NetEarnings, PayoutDate) VALUES (?, ?, ?, ?, ?, NOW())";
    $stmt_update = $conn->prepare($sql_update);
    $stmt_update->bind_param("sddds", $_SESSION['driver_id'], $total_earnings,
$deduction, $incentives, $net_earnings);
    $stmt_update->execute();

    if ($stmt_update->affected_rows > 0) {
        echo "<script>alert('Earnings successfully claimed!');</script>";
    } else {
        echo "<script>alert('Failed to claim earnings. Please try again
later.');</script>";
    }

  //back to dashboard
    header("Location: dashboard.php");
    exit();
}

$sql_payouts = "SELECT * FROM payouts WHERE DriverID = ?";
$stmt_payouts = $conn->prepare($sql_payouts);
$stmt_payouts->bind_param("s", $_SESSION['driver_id']);
$stmt_payouts->execute();
$result_payouts = $stmt_payouts->get_result();

$conn->close();
?>
```

```
<div class="container">
        <h1>Payout</h1>

        <table>
            <tr>
                <th>Payout ID</th>
                <th>Driver ID</th>
                <th>Gross Earnings</th>
                <th>Deduction (20%)</th>
                <th>Incentives</th>
```

```
                <th>Net Earnings</th>
                <th>Payout Date</th>
            </tr>
            <?php while ($row = $result_payouts->fetch_assoc()): ?>
                <tr>
                    <td><?php echo htmlspecialchars($row['PayoutID']); ?></td>
                    <td><?php echo htmlspecialchars($row['DriverID']); ?></td>
                    <td>$<?php echo number_format($row['GrossEarnings'], 2); ?></td>
                    <td>$<?php echo number_format($row['Deduction'], 2); ?></td>
                    <td>$<?php echo number_format($row['Incentives'], 2); ?></td>
                    <td>$<?php echo number_format($row['NetEarnings'], 2); ?></td>
                    <td><?php echo htmlspecialchars($row['PayoutDate']); ?></td>
                </tr>
            <?php endwhile; ?>
        </table>

        <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>"
method="post">
            <input type="submit" name="claim" value="Claim" style="background-color:
#fff; color: black; border: none; padding: 10px 20px; cursor: pointer;
border-radius: 5px; margin: 30px;">
        </form>
    </div>
```

Trip_history.php

```
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "dapp";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql_trip_history = "SELECT * FROM trips WHERE DriverID =
'{$_SESSION['driver_id']}' ORDER BY BookingID DESC";
```

```
$result_trip_history = $conn->query($sql_trip_history);

$conn->close();
?>
```

```
<div class="container">
        <?php include 'navbar.php'; ?>

        <h1>Trip History</h1>

        <table>
            <thead>
                <tr>
                    <th>Booking ID</th>
                    <th>Driver ID</th>
                    <th>Pickup Location</th>
                    <th>Dropoff Location</th>
                    <th>Date & Time</th>
                    <th>Payment Method</th>
                    <th>Fare</th>
                </tr>
            </thead>
            <tbody>
                <?php if ($result_trip_history->num_rows > 0): ?>
                    <?php while ($row = $result_trip_history->fetch_assoc()): ?>
                        <tr>
                            <td><?php echo htmlspecialchars($row['BookingID']);
?></td>
                            <td><?php echo htmlspecialchars($row['DriverID']);
?></td>
                            <td><?php echo htmlspecialchars($row['PickUpLoc']);
?></td>
                            <td><?php echo htmlspecialchars($row['DropOffLoc']);
?></td>
                            <td><?php echo htmlspecialchars($row['DateTime']);
?></td>
                            <td><?php echo htmlspecialchars($row['PaymentMethod']);
?></td>
                            <td>$<?php echo number_format($row['Fare'], 2); ?></td>
                        </tr>
                    <?php endwhile; ?>
                <?php else: ?>
                    <tr>
```

```
                    <td colspan="8">No trips found.</td>
                </tr>
            <?php endif; ?>
        </tbody>
    </table>
</div>
```

V. CONCLUSION

Summary of work done

Throughout our project journey, we've accomplished a wide array of tasks, each team member taking on roles in programming, documentation, SQL script development, and more. This diversity made our experience both challenging and incredibly rewarding. One of our biggest learning curves was tackling programming in a new language while simultaneously learning its intricacies on the go. This experience highlighted our team's adaptability and determination to master new skills under pressure. We spent considerable time analyzing the best structures and content formats, ensuring our documentation was both informative and accessible. Decisions regarding table structures and SQL scripts were crucial, requiring thoughtful consideration to meet project needs while ensuring data integrity and scalability.

In summary, our project represents a significant accomplishment marked by strategic decision-making and strong team communication. These elements have collectively contributed to a successful outcome, laying a solid foundation for continued growth and success in our endeavors.

Personal Challenges

We encountered several significant roadblocks throughout the project. Initially, a team member experienced hardware issues, resulting in a damaged monitor. This hardware malfunction delayed our progress, as we had to continue with fewer devices and equipment. As the deadline approached, the simultaneous need to complete assignments for other courses further complicated our ability to prioritize our workload, given the importance of each task. Additionally, a critical situation arose when another team member's house was nearly caught on fire. As this individual was our primary programmer, we had to allocate time to address their urgent personal matters, which further impacted our project timeline.

Project Challenges

The abundance of ideas within the team presented its own set of challenges. With three team members contributing different perspectives and suggestions, aligning our vision for the project's system proved difficult. Our limited resources made it challenging to bring our ideal system to fruition. Experimenting with various programming languages and software consumed a significant amount of time. Ultimately, we decided to commit to a single development path to streamline our efforts and collaborate more effectively.

Lesson Learned

Balancing multiple deadlines from various courses alongside our project deadlines taught us the value of effective time management and prioritization. Prioritizing tasks based on urgency and importance, and perhaps even integrating time management tools, could have helped us handle concurrent assignments more efficiently. Learning to set clear priorities and sticking to a schedule would be beneficial for future projects. The unexpected personal emergency faced by one of our team members demonstrated the necessity of being adaptable and flexible. Acknowledging that unforeseen circumstances can arise, we learned the importance of being able to quickly reallocate tasks and support each other. This adaptability is crucial in maintaining project momentum despite disruptions.

By addressing these lessons, future projects can benefit from improved resource management, time management, decision-making processes, and adaptability, leading to more efficient and successful outcomes.

Future Enhancement

For the continued development and enhancement of our system application, we envision the implementation of a variety of features to significantly improve user experience and system functionality. Given the current limitations due to resource constraints, several advanced features are planned for future iterations:

A fundamental improvement in our future plans include advanced **data analytics capabilities.** This is desired to integrate into our system. These analytics will offer valuable insights into usage patterns, fare trends, and user preferences. By leveraging these insights, we can continuously refine our services to better align with user expectations and operational efficiency.

Lastly, integrating our system with external services such as **payment gateways, navigation systems, and user support platforms is planned and recommended**. This integration aims to provide a seamless and comprehensive service experience, covering all aspects of the booking and travel process.

By enhancing these features, our system will evolve into a versatile and indispensable tool that meets the evolving needs of drivers and users alike.