DEVELOPMENT OF DIU BUS MANAGEMENT SYSTEM

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled "DEVELOPMENT OF DIU BUS MANAGEMENT SYSTEM", submitted by Md. Helal Uddin ID: 151-15-477to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held on *date*.

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Department of -----Jahangirnagar University **DECLARATION**

I hereby declare that, this project has been done by me under the supervision of

Md.Tanvir Rahman, Lecturer, Department of CSEDaffodil International

University. I also declare that neither this project nor any part of this project has been

submitted elsewhere for award of any degree or diploma.

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Finally, I ought to perceive with due respect the reliable help and patients of my parents.

ABSTRACT

Now a days Daffodil International University is an outstanding University in Bangladesh with its huge measure of understudies and offices. As a specific measure of the understudies originate from outside the grounds, they for the most part need to utilize the University Transport office. Be that as it may, the understudies face a few issues with the present Bus Management System of DIU. All Information with respect to transport calendars, course and driver data scopes to the understudies in a dispersed manner. Abrupt updates and other data now and again make a few problems. Administrators likewise face a rundown of issues to keep up the best possible administration of transport and each individual identified with it. In such manner, an application can be an answer for the majority of the issues expressed above by giving a wide range of data identified with transport, situate the board and simple to get to and keep up for both admin and user.

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CHAPTER 1

INTRODUCTION

DIU Bus Management System Application has been produced for the executives of transport segment of DIU. Each data in this framework is inputted by an admin. The data can be access from anyplace of the world over web by advanced mobile phones, PCs and others related devices. In this framework client can see all transport schedule, accessible transport, driver, helper and bus information and also can book trip

1.1 Bus management system

Bus management system which manages all kind of Transport information and an automated process providing higher accuracy and minimizing errors. By this system not only admins are benefitted but also users can also be benefitted. A large part of operations like buses records, driver and helper records, schedule records and upgraded all of the systems are included in this facility.

All Information regarding bus schedules, route and driver information reaches to the students in a scattered way. My bus management system designed and implemented to replace that system. My system control the following information, departure time of the transport, update the new type of transport, add or update the routes, add or update the buses and drivers information, which bus is in which route, booked trip, location, time etc. The main purpose of this system is to easily excessed by both admin and users.

1.2 Project initiation planning

I am the only members for this project. This is a result of my thoughts and hard work. First I had several ideas about what to do as my final project. I was unable to make decide what will be my project. At that point I saw my university provide bus facility for everyone. But we didn't have any fixed source to get all information related to bus. We had no clear information about bus schedule, number of buses, routes and available buses for any certain time. And also we didn't have any idea about booking a bus for trip. Seeing this situation, I had an idea about my project. After consultation

with the authority and my supervisor I decided on this particular project because I think it is badly need for all the users and also for the admins.

Then I started to build my project. My supervisor had given proper legitimate guidance and information to me.

1.3 Project motivation

As Bangladesh is a creating nation and each segment are getting digitalized, ICT division likewise acquainted and attempt with develop quick and our college is additionally IT based. In Computer Science and Engineering Department each session turns out a great deal of understudies with their last task. Diverse understudies have distinctive idea and distinctive purpose behind choosing their task. Select an effective undertaking is an astute choice. Since undertaking isn't just for finishing the credit yet in addition appearing social duty. On the off chance that I see my current diverse framework I can see a large portion of the framework are manual, dispersed and have different issues. So I think at any rate I can change over a dispersed framework into one spot, mechanized mechanization for everybody. Despite the fact that numerous understudies attempted it previously yet no one succeed.

Hence I am attempting to make legitimate stride and select a current framework which is my title "Improvement of DIU Bus Management System Application". I might want to demonstrate my smart thoughts. I feel in my more profound heart that it would be my obligation to accomplish something Ill for my nation and college which is successful and conceivable, all things considered.

1.4 Objective of this project

This project is running with various objectives. The most important objective are given below:

- To provide every information in an efficient way
- To provide each and every updates to the user instantly
- To maintain the schedule of bus properly

- To provide an online bus booking system
- To provide a better Trip Management
- To provide an interactive management for administrators

CHAPTER 2 METHODOLOGY

The "DEVELOPMENT OF DIU BUS MANAGEMENT SYSTEM APPLICATION

" is the developed to manage buses of our university in easiest way and manage travelling schedule in efficient way so that both students and faculty/admin can travel from one campus to another campus of this university easily and as if the admin of this system expect to include or remove any bus or route or schedule he/she can easily manage this system. I have developed this system bearing on my mind to serve my university's Transportation with online system in addition to use this System in various transportation field. As a matter of fact this might be utilized as general transport system.

2.1 Concept

I have used several technologies to develop this app. They are:

- Laravel Framework
- PHP (Server side scripting language)
- Bootstrap
- HTML & CSS(Markup language)
- MYSQL(Database Engine)
- WEB SERVER
- Font Awesome Icons

2.1.1 Larayel Framework

Laravel is a web application structure with expressive, rich language structure. We believe improvement must be a charming, creative experience to be truly fulfilling. Laravel tries to expel the distress from progress by encouraging typical endeavors used in the predominant piece of web adventures, for instance, check, coordinating, sessions, and holding. Laravel expects to make the improvement method a wonderful one for the planner without surrendering application convenience. Playful architects

make the best code. To this end, we've tried to join the straightforward best of what we have seen in other web structures, fusing frameworks completed in various tongues, for instance, Ruby on Rails, ASP.NET MVC, and Sinatra [1].

Laravel is accessible, yet momentous, giving unimaginable resources expected to gigantic, ground-breaking applications. A great inversion of control holder, expressive movement structure, and solidly planned unit testing reinforce give you the gadgets you need to create any application with which you are endowed.

2.1.2 PHP

PHP is a server scripting vernacular, and a powerful mechanical assembly for making a dynamic and natural Ib page. PHP code is deciphered by an Ib server with a PHP processor module, which makes the consequent Ib page: PHP headings can be introduced clearly into a HTML smyce record as opposed to calling an external archive to process information [2,8].

2.1.3 Bootstrap

In 2011, a social event of Twitter engineers chose to make Bootstrap as an inside solution for their programming issues. Actually, their game plan was to make a mechanical assembly without of certain code structure.

Each coder may have their strategy for making his gems. This by and large prompts a couple of vulnerabilities when another product engineer, assume a student, attempts to examine the code. Consequently, Mark Otto and Jacob Thorton from Twitter organized Bootstrap - a technique for inducing programming designers to tie together their instances of forming the code, and go without making contrasts at the same time. The focal points that Bootstrap passed on to their regular work were simply essential.

Right when people from Twitter comprehended its real potential, they have released it as an open-source adventure. With the help of Github and countless programming engineers, it took only a few months to check Bootstrap as most celebrated front-end improvement gadget for making responsive, flexible web adventures [3].

2.1.4 HTML & CSS

HTML is the standard markup language for making Ib pages and Ib applications. With Cascading Style Sheets (CSS), and JavaScript, it shapes a gathering of three of

establishment headways for the World Wide Ib. Ib programs get HTML records from an Ibserver or from neighborhood amassing and render them into sight and sound Ib pages. HTML components are the structure squares of HTML pages. With HTML develops, pictures and diverse articles, for example, intuitive structures may be embedded into the rendered page. It gives an approach to make organized records by demonstrating basic semantics for substance, for instance, headings, areas, records, connections, refers to and diverse things [6].

CSS is a template language utilized for depicting the introduction of a report written in a markup language. Alongside HTML and JavaScript, CSS is an establishment advancement used by most Ib locales to make ostensibly charming Ib pages, UIs for Ib applications, and UIs for some flexible applications. CSS is organized mainly to empower the unit of report content from record presentation, including viewpoints, for instance, the design, hues, and text styles [7].

2.1.5 **DBMS**

A database is a dealt with amassing of data. The data are usually made to indicate relevant pieces of reality in a manner that supports shapes requiring this information. For example, showing the availability of rooms in hotels in a way that supports finding a motel with circumstances.

Database the administrators systems (DBMSs) are remarkably arranged applications that work together with the customer, distinctive applications, and the database itself to catch and separate data. A comprehensively valuable database the board system (DBMS) is an item structure expected to allow the definition, creation, addressing, revive, and association of databases. For my application I have used MySQL [15].

2.1.6 Web server

A Web server is a program that utilizes HTTP (Hypertext Transfer Protocol) to serve the records that shape Web pages to customers, in light of their requesting, which are sent by their PCs' HTTP clients. Committed PCs and devices may be implied as Web servers as well.

The strategy is an instance of the customer/server demonstrate. All PCs that have Web districts must have Web server programs. Driving Web servers incorporate Apache (the most extensively presented Web server), Microsoft's Internet Information Server

(IIS) from NGNIX. Other Web servers fuse Novell's NetWare server, Google Web Server (GWS) and IBM's gathering of Domino servers.

In order to replicating this application we took the help by using Virtual Server Called XAMPP.

2.1.7 Font Awesome Icons

Content style Awesome gives us versatile vector images that can in a brief moment be changed — gauge, shading, drop shadow, and anything that should be conceivable with the power of CSS [4].

The main Font Awesome is so far open source and absolutely free for business subjects, modules, and endeavors [5].

CHAPTER 3 TABLES & DIAGRAMS

3.1 Database design

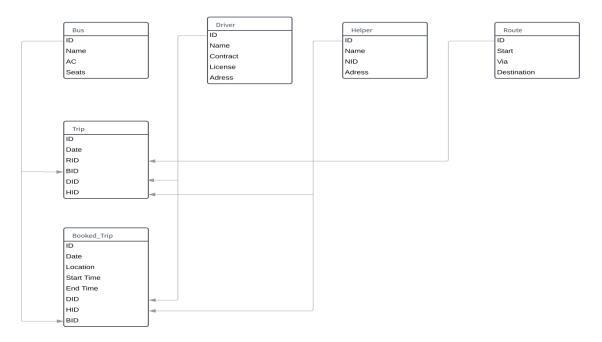


Figure 3.1: Database design of the system.

3.2Entity relationship model

An element relationship model is a graphical portrayal of entities and their relationships to one another. The entire motivation behind ER demonstrating is to make a precise impression of this present reality in a database. The ER display doesn't really give us a database depiction. It gives us a moderate advance from which it is anything but difficult to characterize a database. An ER display is ordinarily actualized as a database. In a basic social database usage, each column of a table speaks to one occasion of a substance type, and each field in a table speaks to a trait type. In a relational database a connection between elements is executed by putting away the essential key of one substance as a pointer or "foreign key" in the table of another element.

The major components of E-R diagram are given below in figure 3.2

Rectangles, which represents entity set.

Ellipse, which represents attributes.

Diamonds, which represents relationship sets.

Line, which link attributes to entity sets and entity sets to relationship sets.

Figure 3.2: Entity relationship model symbols.

3.3 Entity relationship diagram

Figure: 3.3 representing different relationship between the entities of the system.

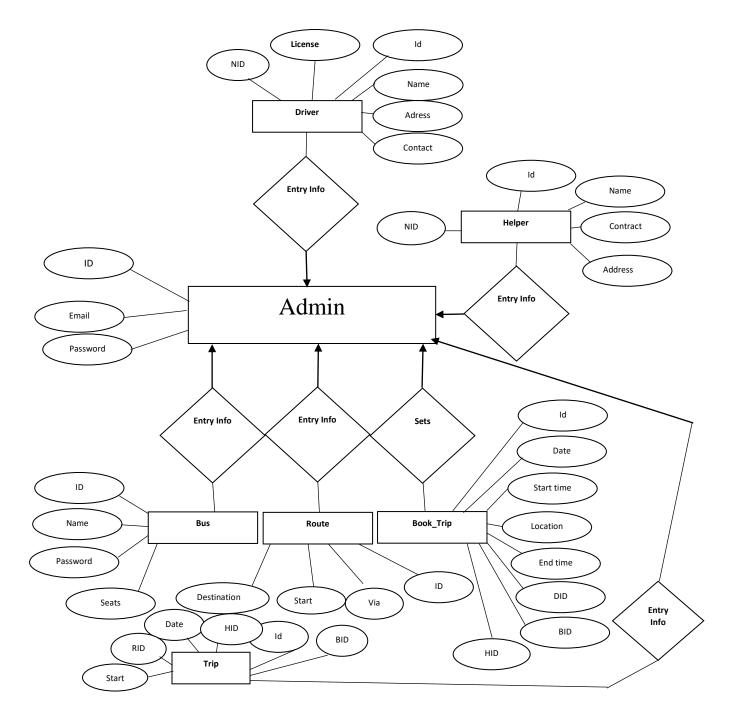


Figure 3.3: Entity relationship diagram of the system.

3.4 Use Case diagram

Actors

Admin: Admin can update information.

Students: Students can view all the information related to transport.

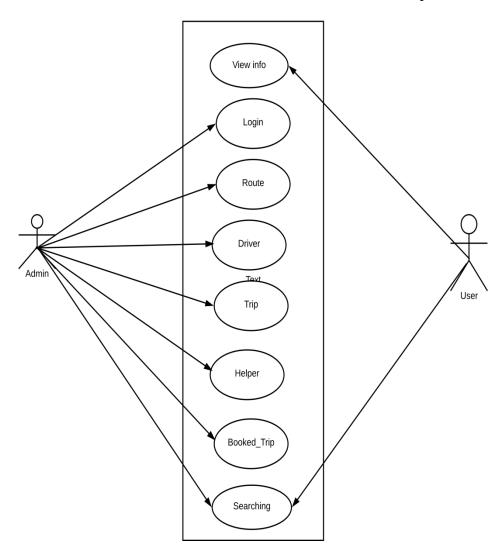


Figure 3.4: Use case diagram of the system.

3.4.1 Use Case List:

UC 1- View info

Students can view information.

UC 2- Login

Admin can login.

UC 3- Route

Admin can set, update and delete route.

UC 4- Driver

Admin can set, update and delete driver.

UC 5- Bus

Admin can set, update and delete bus.

UC 6- Trip

Admin can set, update and delete trip.

UC 7- Helper

Admin can set, update and delete helper.

UC 8-Booked_Trip

Admin can set, update and delete booked trip.

3.4.2 Use Case Description:

Table 3.4.2.1 Use case 1

Use Case Id:	1
Use Case Name:	View Info
Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow user and admin to view information of schedule trips of the system
Primary Actor:	Admin, User
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the Home page

Table 3.4.2.2 Use case 2

Use Case Id:	2
Use Case Name:	Log In

Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow admin to log in the system.
Primary Actor:	Admin
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the Log In page

Table 3.4.2.3 Use case 3

Use Case Id:	3
Use Case Name:	Route
Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow admin to change route in the system.
Primary Actor:	Admin
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the Route page

Table 3.4.2.4 Use case 4

Use Case Id:	4
Use Case Name:	Driver
Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow admin to change driver in the system.
Primary Actor:	Admin
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the Driver page

Table 3.4.2.5 Use case 5

Use Case Id:	5
Use Case Name:	Bus
Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow admin to change bus information in
	the system.
Primary Actor:	Admin
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the Bus page

Table 3.4.2.6 Use case 6

Use Case Id:	6
Use Case Name:	Trip
Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow admin to change schedule trip in the system.
Primary Actor:	Admin, User
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the schedule trip page

Table 3.4.2.7 Use case 7

Use Case Id:	7
Use Case Name:	Helper
Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow admin to change helper information in the
	system.
Primary Actor:	Admin
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the Helper page

Table 3.4.2.8 Use case 8

Use Case Id:	8
Use Case Name:	Booked_Trip
Created By:	Helal Uddin
Date Of Creation:	25-01-2019
Description:	This use case will allow admin to change booked trip in the system.
Primary Actor:	Admin
Secondary Actor:	None
Precondition:	None
Post condition:	The system will display the Booked Trip page

3.5 Class diagram

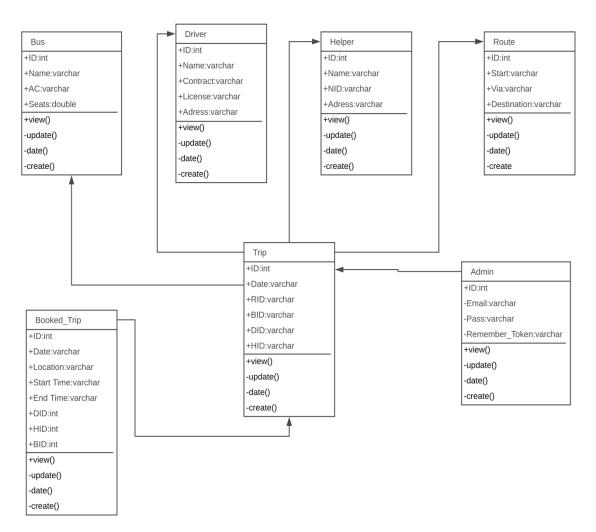


Figure 3.5: Class diagram of the system.

3.6 Process diagram

Figure 3.6: Process diagram of the system.

3.7 Tables

Table 3.7.1: Admin.

In Admin table, there are six columns. They are; Id (data type int), Email (data type varchar), password (data typevarchar), Remember_token (data type varchar), Created_at (data type Timestamp) and Updated_at (data type Timestamp) where Id is primary key.

Existing admin information is shown in Figure 3.7.1

Field Name	Data Type	Primary	Default	Description
		Key	Value	
Id	Int.	Primary key		
Email	Varchar			
Password	Varchar			
Remember token	Varchar			
Created at	Timestamp			
Updated at	Timestamp			

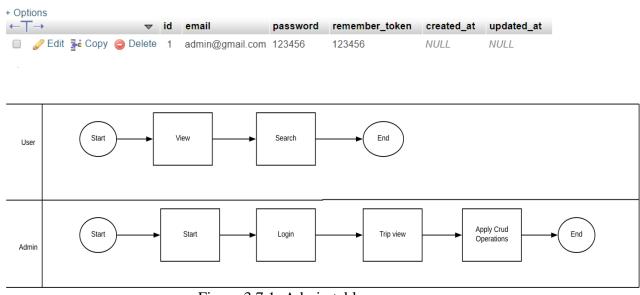


Figure 3.7.1: Admin table.

Table 3.7.2: Bus.

In Bus table, there are six columns. They are; Id (data type int), Name (data type varchar), AC (data type Varchar), Seat (data type double), Created_at (data type Timestamp) and Updated_at (data type Timestamp), where Id is primary key.

Existing bus information is shown in Figure 3.7.2

Field Name	Data Type	Primary Key	Default Value	Description
Id	Int.	Primary key		Bus identification
Name	Varchar			
AC	Varchar			
Seat	Double			
Created at	Timestamp			
Updated at	Timestamp			

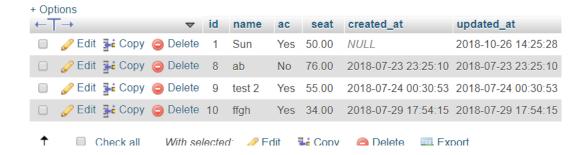


Figure 3.7.2: Bus table.

Table 3.7.3: Driver.

In Driver table, there are eight columns. They are; Id (data type int), Name (data type varchar), Contact (data type varchar), and License (data type Varchar), Address (data type Varchar), NID (data type varchar), Created at (data type Timestamp) and Updated at (data type Timestamp), where Id is primary key.

Existing driver information is shown in Figure 3.7.3

Field Name	Data Type	Primary Key	Default Value	Description
Id	Int.	Primary key		Driver identification
Name	Varchar			
Contact	Varchar			

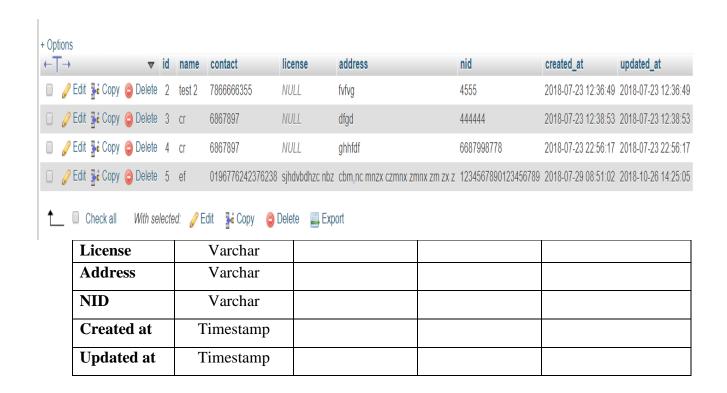


Figure 3.7.3: Driver table.

Table 3.7.4: Helper.

In Helper table, there are eight columns. They are; Id (data type int), Name (data type varchar), Contact (data type varchar), and License (data type Varchar), Address (data type Varchar), NID (data type varchar), Created_at (data type Timestamp) and Updated_at (data type Timestamp), where Id is primary key.

Existing helper information is shown in Figure 3.7.4

Field Name	Data Type	Primary Key	Default Value	Description
Id	Int	Primary key	vaiuc	Helper identification
Name	Varchar			
Contact	Varchar			
NID	Varchar			
Address	Varchar			
Created at	Timestamp			
Updated it	Timestamp			

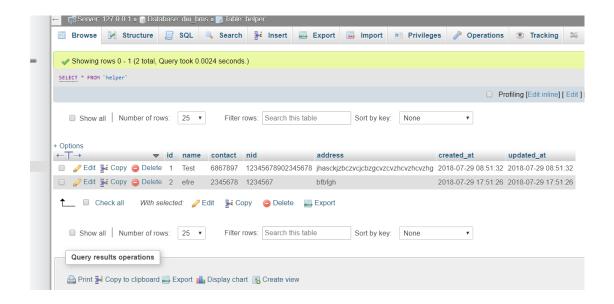


Figure 3.7.4: Helper table.

Table 3.7.5: Route.

In Route table, there are three columns. They are; Id (data type int), Start (data type varchar), Via (data type varchar), Destination (data type varchar), Created_at (data type Timestamp) and Updated_at (data type Timestamp), where Id is primary key.

Existing route information is shown in Figure 3.7.5.

Field Name	Data Type	Primary Key	Default Value	Description
Id	Int	Primary key		Route identification
Start	Varchar			
Via	Varchar			
Destination	Varchar			
Created at	Timestamp			
Updated at	Timestamp			

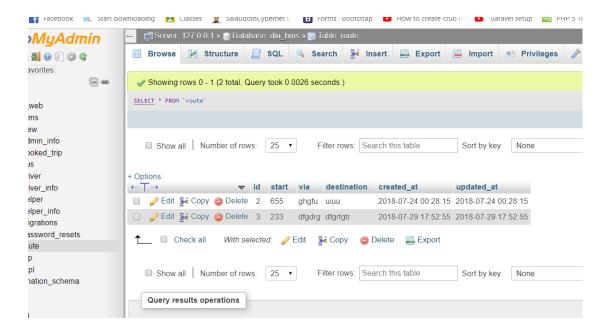


Figure 3.7.5: Route table.

Table 3.7.6: Trip.

In Trip table, there are Nine columns. They are; Id (data type int), Day (data type Varchar), Start_time (data type Varchar), Route_id (data type int), Bus_id (data type int) and Driver_id (data type int), Helper id (data type int), Created_at (data type Timestamp) and Updated at (data type Timestamp), where id is primary key.

Existing schedule information is shown in Figure 3.7.6

Field Name	Data Type	Primary Key	Default Value	Description
Id	Int.	Primary key		Trip identification
Day	Varchar			
Start_time	Varchar			
Route_id	Int			
Bus_id	Int			
Driver_id	Int			
Helper_id	Int			
Created_at	Timestamp			
Updated_at	Timestamp			

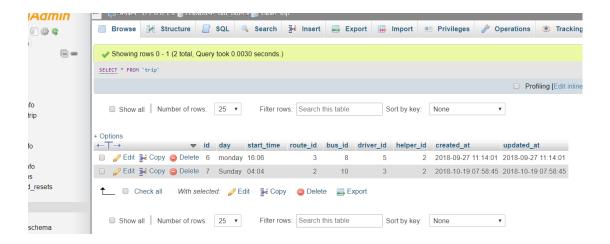


Figure 3.7.6: Trip table.

Table 3.7.7: Booked_Trip

In Booked_Trip table, there are Ten columns. They are; Id (data type int), Date (data type Varchar), Start_time (data type Varchar), End_time (data type Varchar), Location (data type Varchar), Bus_id (data type int) and Driver_id (data type int), Helper_id (data type int), Created_at (data type Timestamp) and Updated_at (data type Timestamp), where id is primary key.

Existing booked_trip information is shown in Figure 3.7.7

Field Name	Data Type	Primary Key	Default Value	Description
Id	Int	Primary key		Booked_Trip identification
Date	Varchar			
Start_time	Varchar			
Location	Varchar			
Bus_id	Int			
Driver_id	Int			
Helper_id	Int			
Created_at	Timestamp			
Updated_at	Timestamp			
End_time	Varchar			

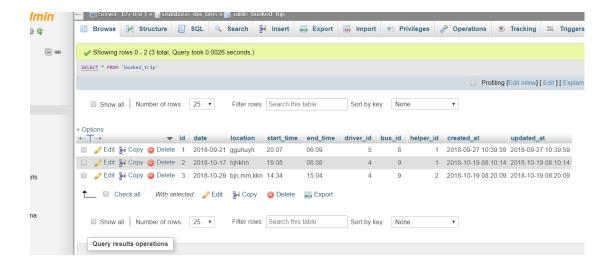


Figure 3.7.7: Booked_Trip table.

3.8 Sequence Diagram

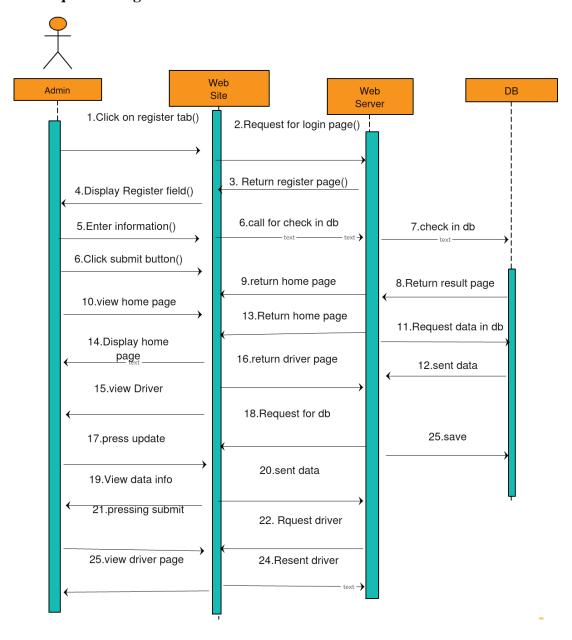


Figure 3.8.1: Sequence diagram of admin for the system.

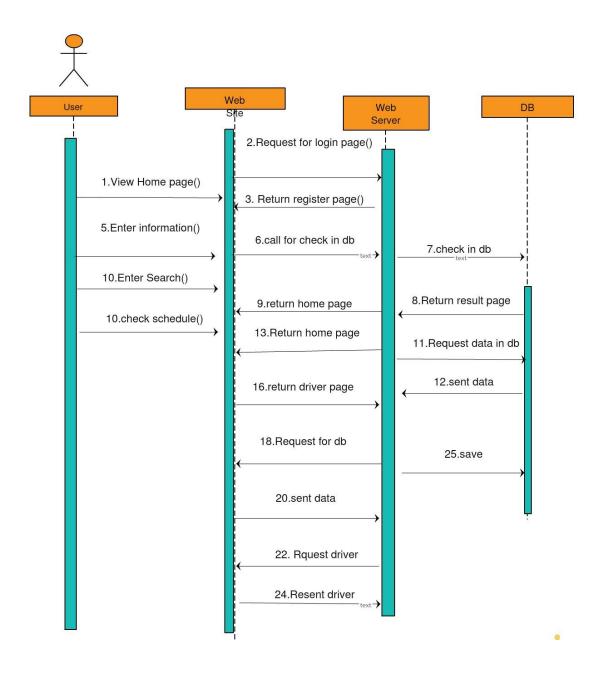


Figure 3.8.2: Sequence diagram of user for the system.

CHAPTER 4

APPLICATION DESIGN AND DESCRIPTION

In this part, it will be depicted the application that are intended for the venture. It is expounded graphically so anybody can comprehend it effectively.

Graphical portrayal and depiction of the structure:

4.1 Home

After visiting the website, the first page is welcome page. Both admin and students have to visit this page, from this page user can go to any page they want and from this page admin has to login to update information.

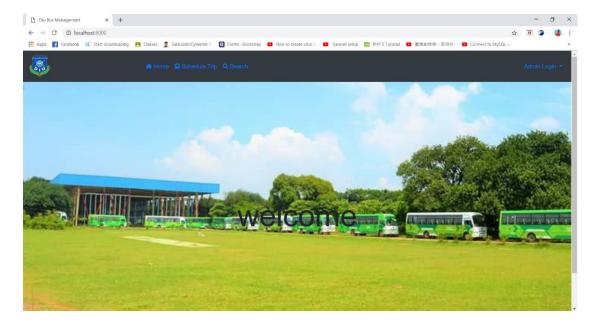


Figure 4.1: Welcome page.

4.2 Schedule trip

From schedule trip link user can check all the schedule of transport

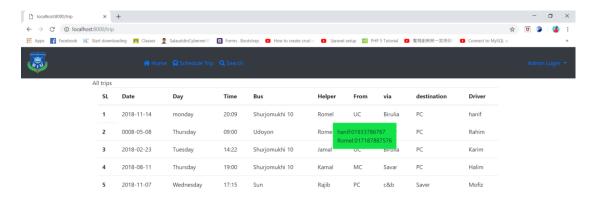


Figure 4.2: Schedule trip page.

4.3Searching

In 'Search' option, user need to press search option, then he will get a search page their he has to select driver, helper, bus or trip then enter the name or day and press search then he will get her expected result

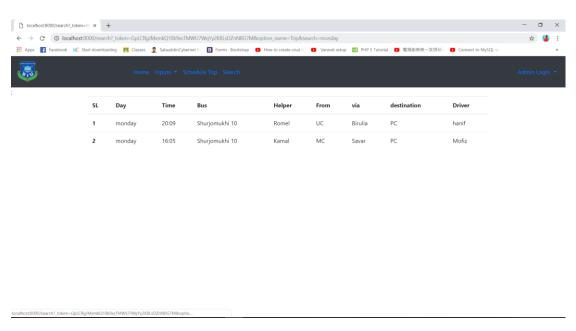


Figure 4.3: Searching

4.4 Admin Login

From welcome page admin has to press login option. Then he has to enter his fixed email and password and he can change whatever he wants

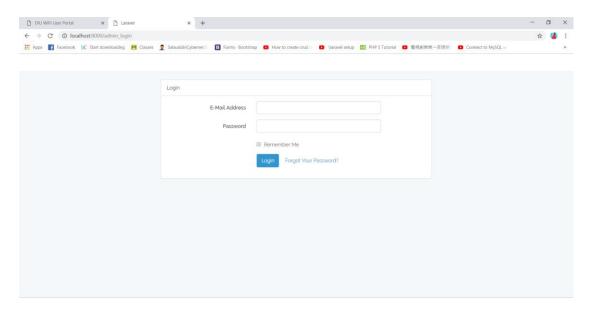


Figure 4.4: Admin login page.

4.5 Admin Home



Figure 4.5: Admin home

4.6 Dashboard:

In Dashboard has create all buses, all helpers, all drivers information. when the admin want to see the all buses, helpers, drivers information then he click the Dashboard and he will see it.

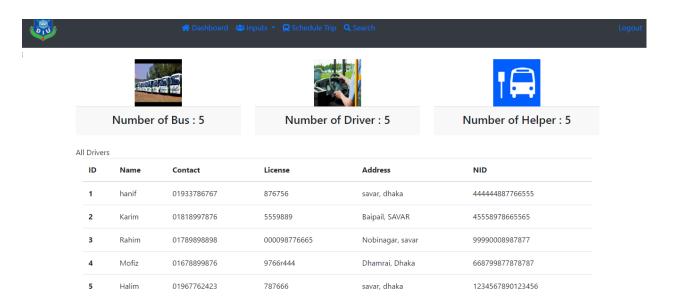


Figure 4.6: Dashboard

4.6 Inputs

From this link admin can select any of the inputs and change the information. Here the options are Drivers, Helpers, Buses, Routes, Booked_trips

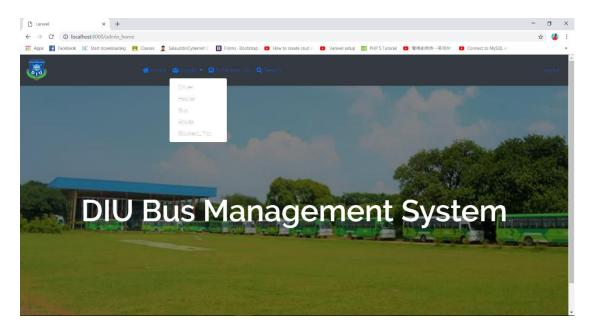


Figure 4.6: Input link

4.7 Drivers

In driver's option admin can update, delete and create driver information.

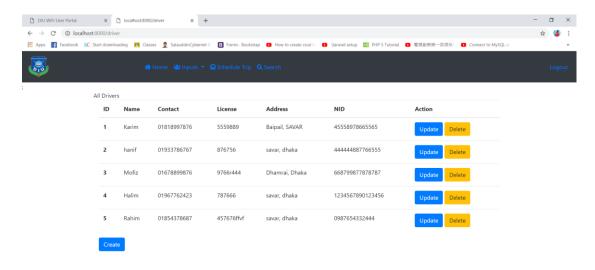


Figure 4.7: Drivers information

4.7.1 Drivers information create

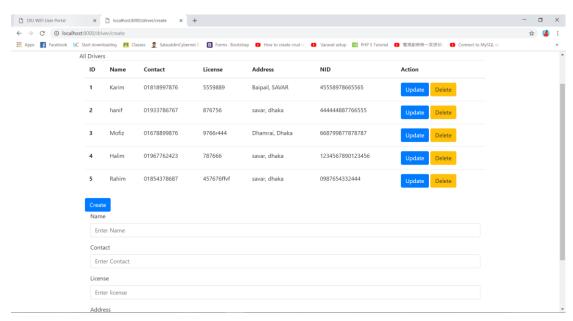


Figure 4.7.1: Drivers information create

4.7.2 Drivers information Update

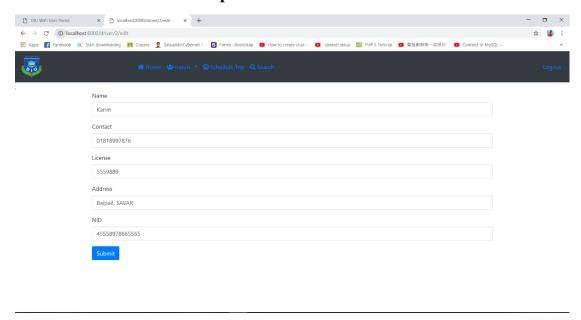


Figure 4.7.2: Drivers information Update

4.7.3 Drivers information Delete

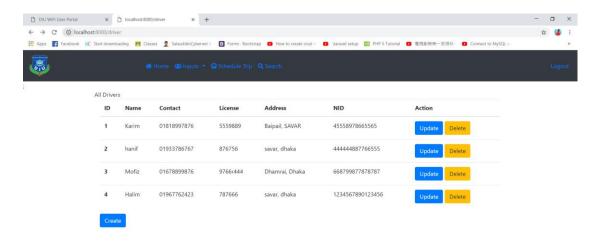


Figure 4.7.3: Drivers information Delete

4.8 Schedule Trip

In schedule trip option admin can set schedule of the bus.

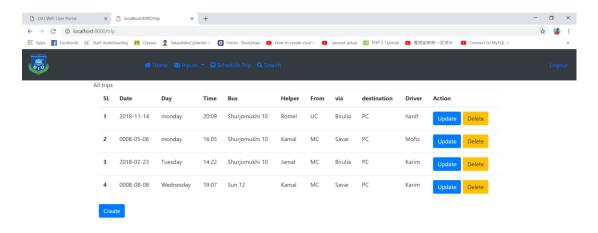


Figure 4.8: Schedule Trip

Location:

In location option it has only use the google map for developer site and it can use to work for android app. when the drivers are use this app and he create her username, password and click the start button and it ip address are generate to provide her locaton for 5 seconds again and again updates.

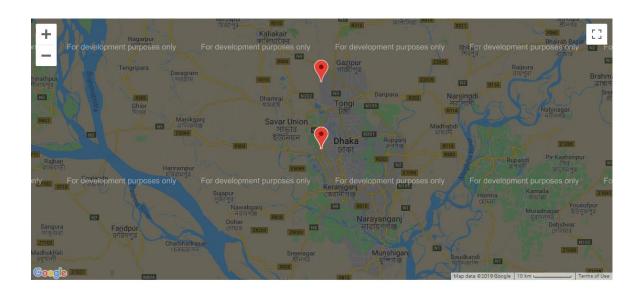


Figure 4.6: location tracker

Login for android app:

It's a login platform, when the driver can be going another place like pc to uc then he can login her Email and password.



Fig: Admin login for Android App

Driver Information:

Driver can see her information when he will login and that's a moment the option of click start then app are going to work her process.



Fig: Driver Information

4.9 Logout

After completing changes admin has to logout.

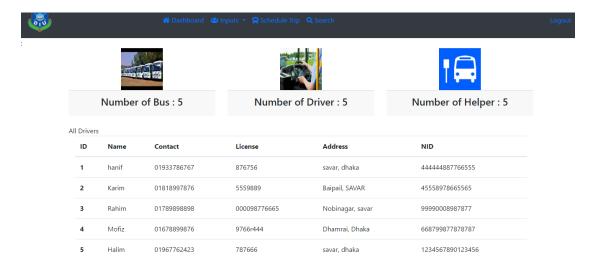


Figure 4.9: Logout

CONCLUSION

In this cutting edge life the world is in hands. As everything have been digitalized, site page plan and its online procedure are getting well known step by step. As of now human wards on hold showcase. They need satisfy their everything requests from onthe web. Furthermore, as our college is a famous college and it give increasingly essential in IT so I figure my task will keep a value making. I am attempting to serve my nation as additional as could reasonably be expected. My great wishes, thoughts and learning are endeavor to apply in this task. Despite the fact that my venture is being created keeping in my brain to serve "DIU" transport area, it tends to be conveyed adequately to utilize wherever in our nation where transport is running. It's extremely brilliant and productive approach to get want data.

Human prerequisites are getting expanded step by step, by the assistance of innovation. So I am building up my site sought after of tomorrow's reality.

In future I might want to include this task both additional highlights in android application likewise, with the goal that it turns out to be anything but difficult to get to.

At long last, in future I will attempt to include more highlights in this site as per request.

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