



The Open University of Sri Lanka.

**EEY4189 - SOFTWARE DESIGN IN GROUP
(GROUP PROJECT)
CLUSTER 3
GROUP 3.5**

ROAD TRAFFIC MANAGEMENT SYSTEM

MILESTONE 7TH Final Report

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DOCUMENT APPROVAL

The following Documentation has been accepted and approved by the following:

Date	Name of the Guide	Project Title	Status of the Project
28.01.2023	Mrs. Ahalikai Suthaharan	Road Traffic Management System	

1. ABSTRACT

In this project we have provided a documentation of Road Traffic Management System. When a tourist will come to our Island they don't know where they go to the destination in short time without getting stuck in traffic and they don't have much time to travel Whole Island in short term visit. Therefore our concept will help them not only tourist but also citizen of Sri Lankan as well.

In everywhere particular rush cities like Colombo, Kurunegala and kandy etc. these areas are too busy cities in this country. So that simply by visiting our web-based portal or mobile application (that we have plan to deploy) they got clear idea and avoid to stuck in traffic situation and will guided alternative clear and short root to the destiny.

By this project we have planning another option as well that, providing service by Motor Traffic Department by Issuing annual revenue vehicle License, Registration number reservation, Registration number gaining, Registering vehicle information with proper verified documents by uploading this system. For that the user must be in our database. We include Authentication layer for register with our databases. Moreover in order to help Traffic police to install surveillance cameras in every traffic signal lights with motion sensor system. Those are who violate road rules and charge them automatically with capturing vehicle plat number.

Nowadays the topic is that need to be talked about because traffic information differs from city to city, thus when dealing with a new city, how we can merge the original traffic technology with the new concept automatically is an important topic. We have proposed a framework for Traffic management system there are still many issues left for further development.

The main concept of traffic technology is on planning, designing, and implementing the transportation network, traffic control systems and public service in order to have smooth and efficient transportation and services.

2. ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task that would be impossible without mentions of the people who made it possible, whose constant guidance and encouragement crowned our effort with success.

We have great pleasure in expressing our deep sense of gratitude to our team guide and supervisor **Mrs. Ahalikai Suthaharan, Lecturer of Open University of Sri Lanka** for providing necessary infrastructure and creating good environment. We take this opportunity to express our profound gratitude to **Dr. P.T.R. Dabare, Course Coordinator** for her constant support and encouragement.

We would also like to thank our team members each other for their involvement to accomplish this project in time.

By
Traffic 24 Team

3. BACKGROUND OF THE PROJECT

3.1 Introduction

The background of this project as a solution for the Road Traffic Management system offers the ability to acquire real time traffic information and Motor Traffic services. In our team experts enables the operators to perform real time data analysis on the information gathered. The aim of this project improving the safety and flow of traffic utilizing traffic capacity more effectively.

3.2 Problem Definition

The problem that we identified the terrible situation that, somehow somewhere we all ever face once in our life. That there is nothing worse thing than being trapped in our vehicle and waiting in the middle of a traffic jam. Traffic jams often occur during rush hour and it can also be caused by accidents who are violate the traffic ethics and rules which happened everywhere in the Island. So that the Traffic police cannot do their duties all the times.

3.3 Project Purpose

Our proposed Road Traffic management System collect and analyzed driving information of vehicles in the area, perform the optimal traffic signals in accordance with the constantly changing road traffic situation and provide useful traffic information to drivers based on the data collection.

Ensuring a smooth traffic flow by compression the driving time of vehicles and reducing the number of times vehicles come to a halt will lead to benefits such as a reduction in road traffic accidents and a decrease in air pollution, which will in turn make a significant contribution to a safe and comfortable road traffic environment. We decide to introduce colorful display information boards by using projectors that allow user awareness.

The purpose of this project is to improve poor transport operations and transport services profitability, reduce traffic jams and fatalities, provide sufficient driving training with ethic, maintain road infrastructure, and strictly maintain traffic law enforcement. Mainly improvised for looking after the set off data of region to manage the Traffic along that rea and implement various useful technologies that are been to require for various persons who are vehicle drivers, pedestrians, Sri Lanka visitors and the traffic police etc. is to give details which can be used and can be implemented in their day to day life without spent more time in a queue.

3.4 Operating environment

In computer software, an operating environment or integrated applications environment is the environment in which users run application software. The environment consists of a user interface provided by an applications manager and usually an application programming interface to the applications manager.

4.LITERATURE SURVEY & COMPETITOR ANALYSIS

In a software development process the key step is Literature survey. Before developing the tool it is necessary to determine the time factor, economy and company strength. Once these things are satisfied, then next steps is to determine which operating system and language can be used for developing the tool. Once the programmers start building the tool the programmers need lot of external support. This support can be obtained from interior or external such as senior programmers, from book or from websites. Before building the system the above particulars consideration are take part into economical section for developing the proposed system.

4.1 Visual Studio Code

Microsoft offered an open source, code editor with the Electron framework for windows, Mac and Linux operating system. Visual Studio Code is an integrated development environment (IDE) it is used to develop computer programs, as well as websites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms include Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

Visual Studio code supports many different programming languages and it's allows the code editor and debugger to support any programming language, provided a language-specific service exists. Mostly support for other languages like Python, Ruby, Node.js, and Java etc.

The Visual Studio code debugger can also create memory dumps as well as load them later for debugging. Multi-threaded programs are also supported. The debugger can be configured to be launched when an application running outside the Visual Studio environment crashes.

4.2 Software Description

Microsoft .NET is a set of Microsoft software technologies for rapidly building and integrating XML Web services, Microsoft Windows-based applications, and Web solutions. The .NET Framework is a language-neutral platform for writing programs that can easily and securely interoperate. The .NET framework provides the foundation for components to interact seamlessly, whether locally or remotely on different platforms. It standardizes common data types and communications protocols so that components created in different languages can easily interoperate.

4.3 SWOT Analysis

SWOT analysis is one of the most straightforward approaches that can be used in the analysis of a project's strategic position. It includes factors of internal strengths and weaknesses, as well as external opportunities and threats.

This research project provides a unique and multidisciplinary overview of Traffic Management system modes in the region that is necessary for future quantitative investigations. Furthermore, it introduces the steps to analyze transportation modes of other areas and regions.

We propose the following steps to analyze transportation modes of areas and regions:

1. Identifying the SWOT factors: brainstorming, SWOT form, interview, and literature review can be applied to identify strengths, weaknesses, opportunities, and threats factors.
2. Ranking the factors: multifactor process and pairwise comparisons are utilized to rank the identified factors.
3. Calculating the average of the weights for each factor:
4. Transportation strategies: transportation strategies related to the identified strengths, weaknesses, opportunities, and threats in the region are defined by the experts.

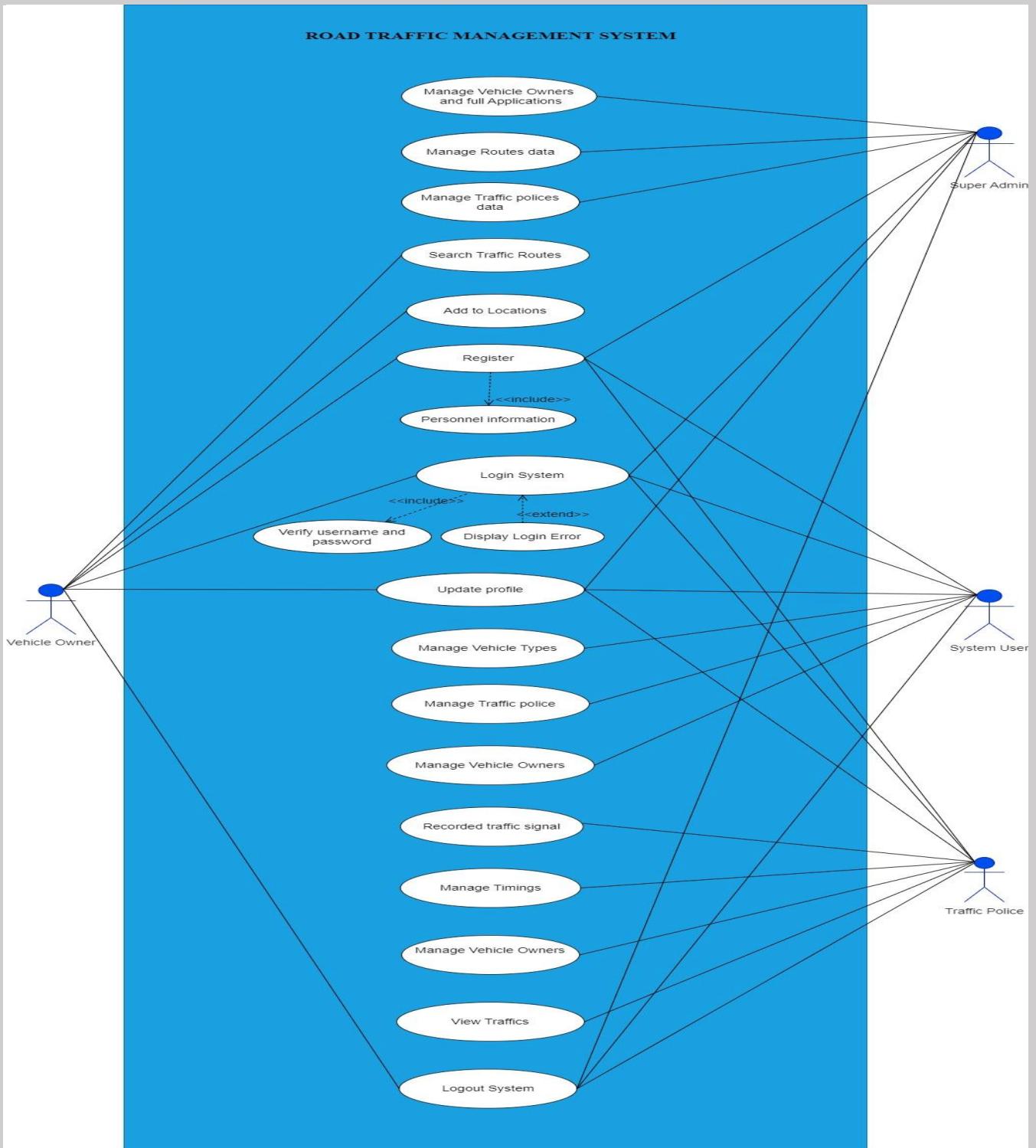
<p>Strength:</p> <ol style="list-style-type: none"> 1. Technological innovative idea 2. Free registration 3. Easy to make to-do-list 4. Quickly respond for violators 	<p>Weakness:</p> <ol style="list-style-type: none"> 1. Less knowledge of Road Rules 2. Non-skilled person for marketing 3. Limited access 4. No branding 5. Related to Government site
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. Future development 2. Increasing foresight 3. Collaboration 4. Exposure to expertise on the industry 	<p>Treats:</p> <ol style="list-style-type: none"> 1. Lack of information sharing 2. No previous knowledge 3. Lack of building complexes for start up 4.

Competitor Analysis

Features	Traffic24	Motor traffic	viamichelin	sciencedirect
Not Private (SSL)	Yes	No	Yes	Yes
User Friendliness	Yes	Yes	No	Yes
Push notifications	Yes	Yes	Yes	No
Admin	Yes	No	No	No
Suggest places	Yes	Yes	No	Yes
Analytics	Yes	No	Yes	Yes

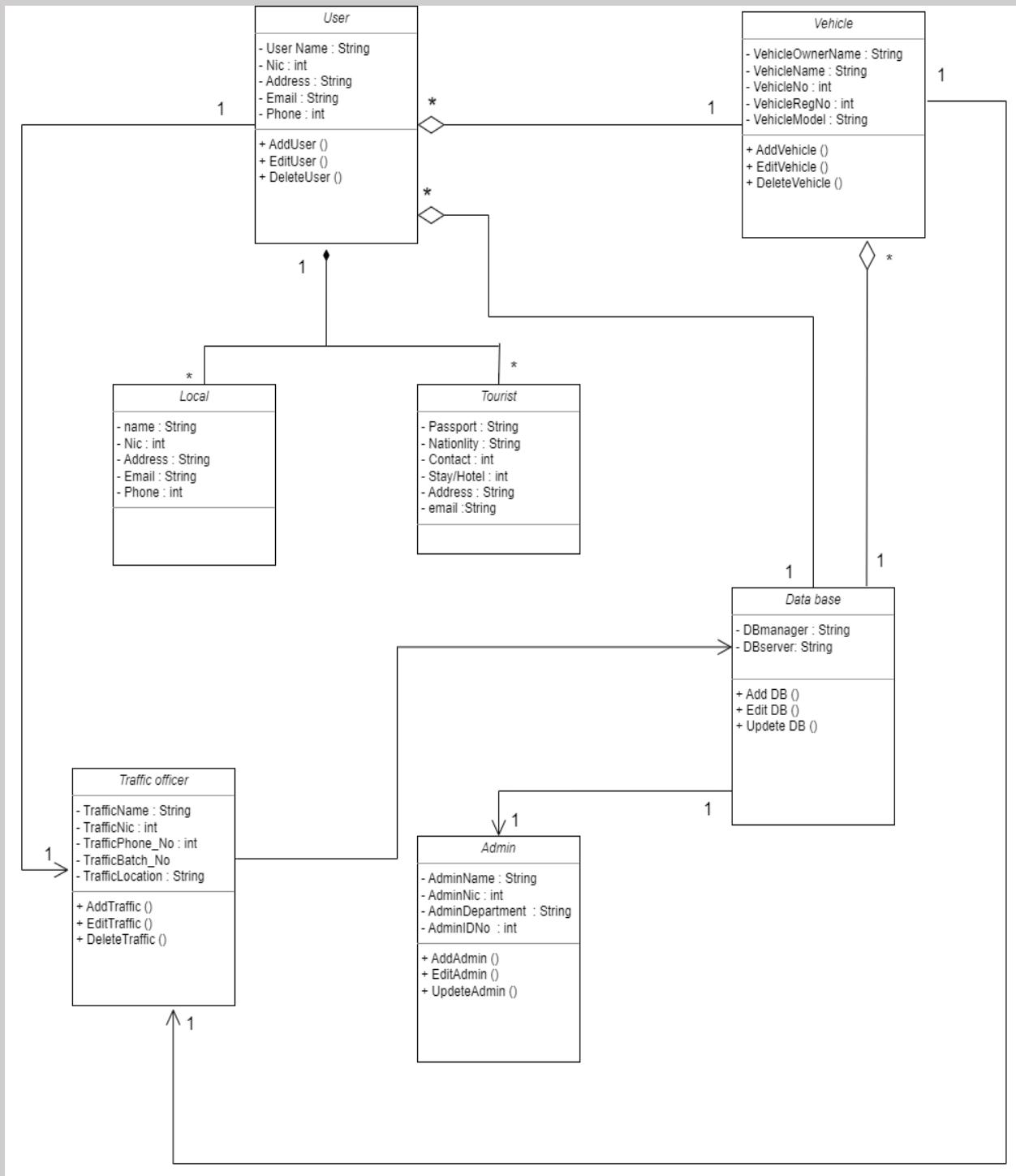
5. Design

5.1 Use case diagram



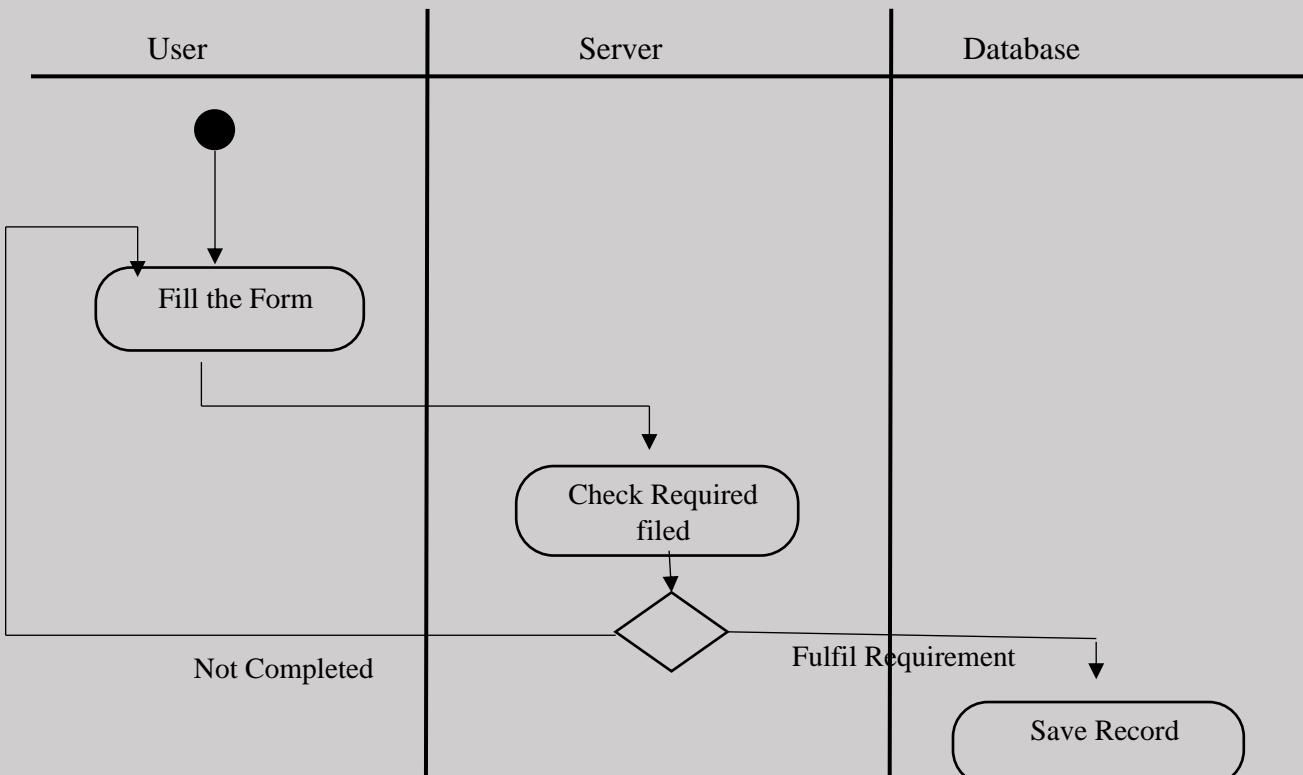
5.2 Class diagram

In short terms of class diagram, every object oriented method including UML Diagram, the class diagrams are backbone of a system.

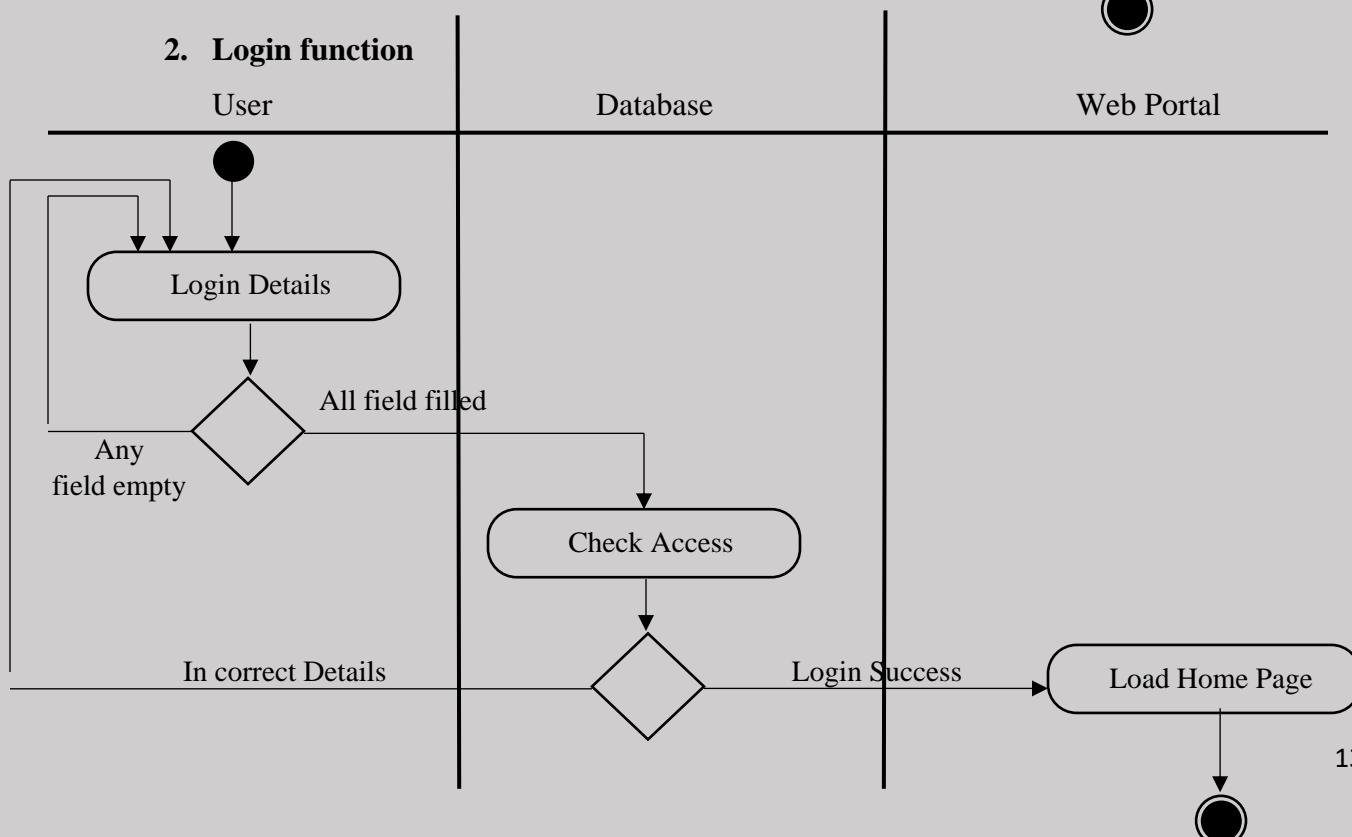


5.3 Activity diagram

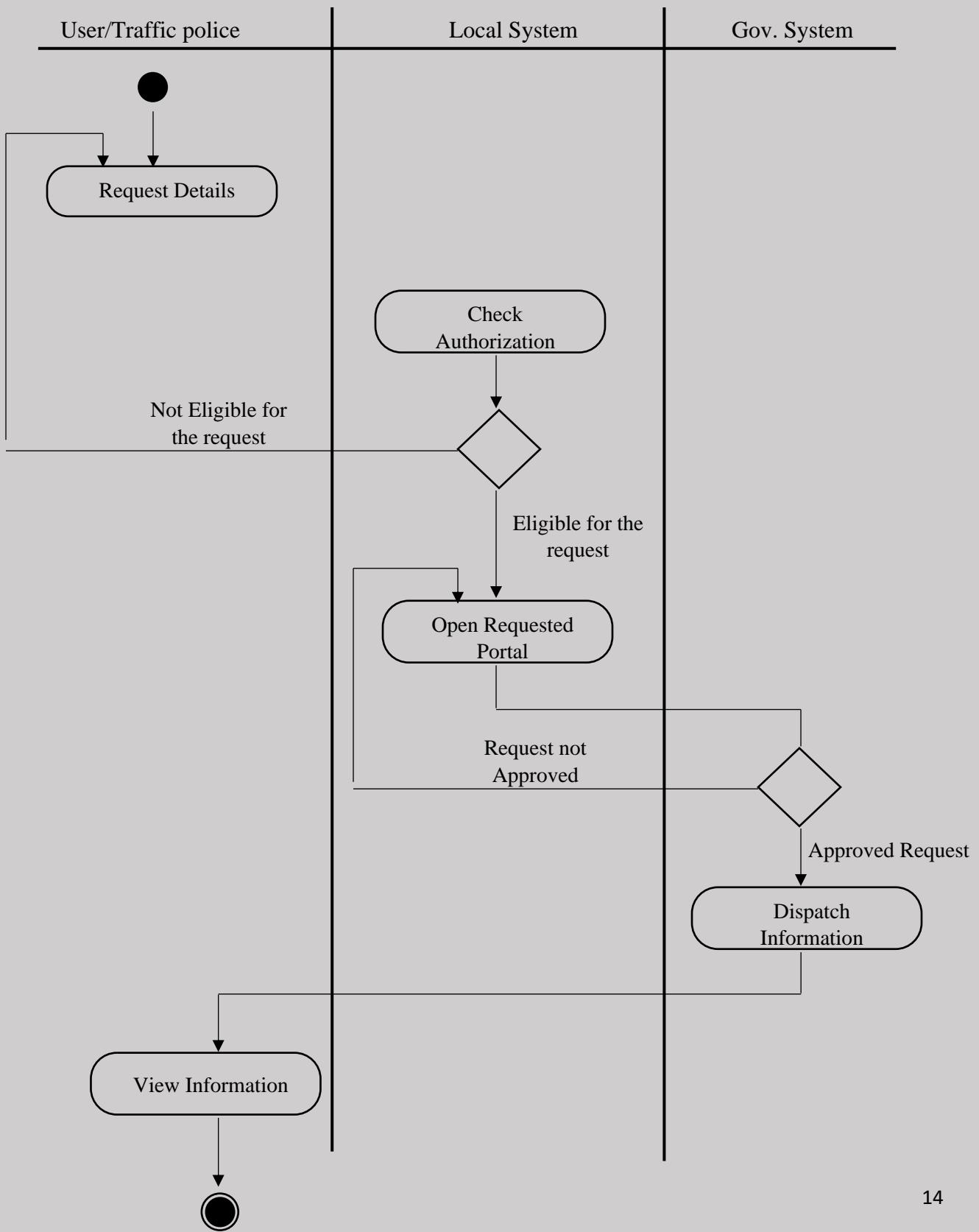
1. Activity diagram for New User Registration function



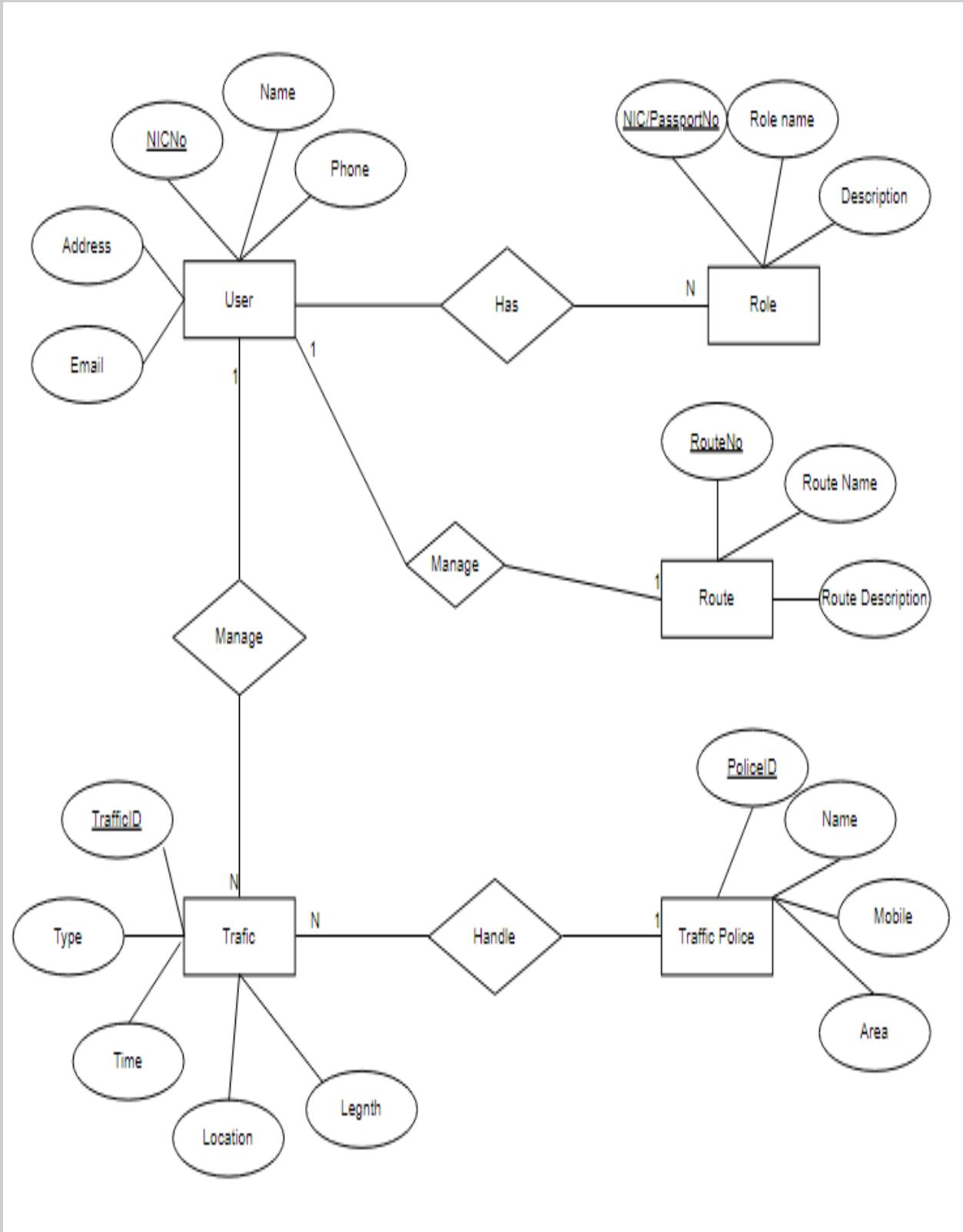
2. Login function



3. Traffic information



5.4 ER diagram



5.5 Test case

Revision and Execution history

Revision and Execution History						
Project Name	Traffic24					
Document References						
Test Objective	Testing the functionality					
Test Execution Summary						
Functionality / Status	Pass	Fail	On Hold	Not Executed	Not Applicable	Total
Total Test Cases	0	0	0	9	0	9
Total	0	0	0	9	0	9
Design Revision History						
Version	Date of Revision	Author	Reviewed by	Comments		
Initial version created	28/12/2022	Traffic24 Team				
Update the document	30/12/2022	Traffic24 Team				

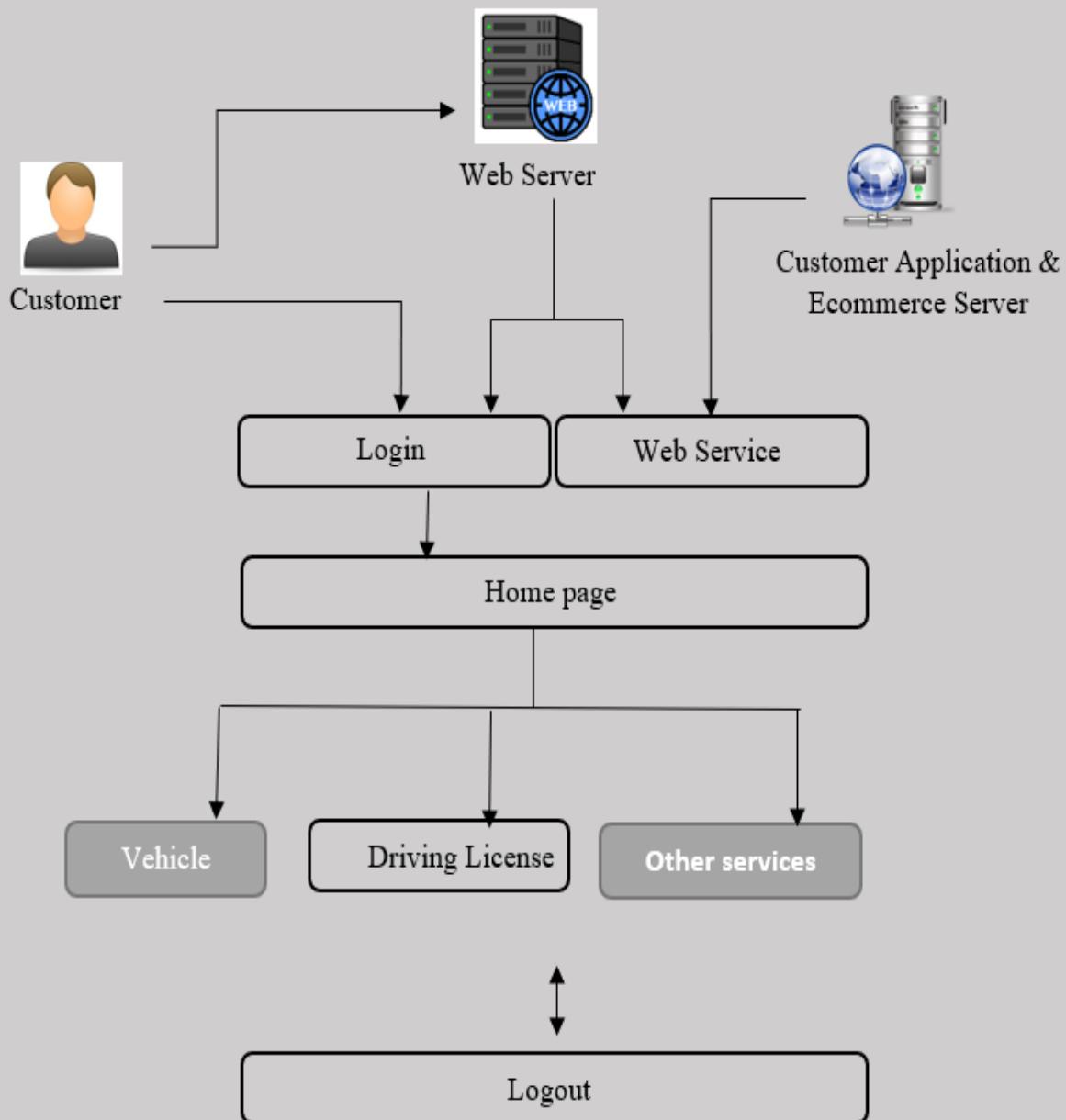
UI

Author: Traffic24 Team		Test Cases Summary		Test Case Details											
		Count		Test Case ID	Feature Description	Prerequisites	Test Description (test step)	Input Data	Expected Result	Actual Result	Test Results	Comments	Defect ID	Test Case Type	Severity
UI															
Login form															
Lg_UI001	Verify the login display menu of the system	User has installed the system in the machine.	Click on the short cut icon.	N/A					User should be able to display the login menu with user name and password fields to add.	Not Executed			UI	High	
Lg_UI002	Verify the 'OK' functionality of the login menu	User has installed the system in the machine.	Click on the short cut icon. Enter the login details. Click on Ok button	N/A					User should be able to navigate to the system window.	Not Executed			UI	High	
Lg_UI003	Verify the 'Cancel' functionality of the login menu	User has installed the system in the machine.	Click on the short cut icon. Enter the login details. Click on Cancel button	N/A					User should be able to close the login menu	Not Executed			UI	Medium	
main page															
mp_UI001	Verify the lay out of the prison detail form	User has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.pdf				Not Executed				UI	High	

Functional

Quality Assurance Test Cases (QATC)								
1	2	3	4	Test Cases Summary	Count	5	6	7
5	Author:	Traffic24 Team	Test Cases Summary	Pass 0		8	9	10
6	Date Created:	28/12/2022		Fail 0		11	12	13
7	Last Updated:	30/12/2022		On Hold 0		14	15	16
8	Version:	1		Not Executed 4		17	18	19
9	Environment:	Windows 7,10, web		Not Applicable 0		main page	20	21
10	Release/Build:	site.apk		Total Test Cases 4				
11	Functional Group:							
Revision & Execution History								
Test Case ID	Feature Description	Prerequisites	Test Description (test steps)	Input Data	Expected Result	Actual Result	Test Results	Comments
Lg_F001	Verify the login functionality of the system	User has installed the system in the machine.	Click on the short cut icon. Enter the login details.	N/A	User should be able to logged in to the system.		Not Executed	
Lg_F002	Verify the error message popmenu at wrong login functionality of the system	User has installed the system in the machine.	Click on the short cut icon. Enter the login details.	N/A	User should be able to notify entered user name and password is wrong.		Not Executed	
mp_UI001	user Login Authentication	User has logged in to system	Login to the system. Observe the page Click on the arrow button	N/A	User should be able to redirect to the next form.		Not Executed	
mp_UI002	Verify user Documents	User has logged in to system	Login to the system. Observe the page Click on the arrow button	N/A	User should be able to redirect to the next form.		Not Executed	

5.5 Overall architecture-block diagram



4

6.Development

6.1 Used Technology

UI/UX

UI/UX stands for User Interface/User Experience. It is the process of creating user-friendly interfaces that provide an effortless and enjoyable experience for users. It involves creating web pages, apps, and other digital products that are responsive, intuitive, and visually appealing. It focuses on the user's flow, journey, and overall experience of interacting with a product or service.

We are Used Figma

Figma

Figma is a collaborative interface design and prototyping tool. It is used by web and product designers to create and collaborate on digital designs. With Figma, teams can easily create interactive prototypes, test user flow, and get feedback from stakeholders. It is available as a cloud-based platform, making it easy to collaborate with teams around the world.

HTML, CSS, and PHP are all types of coding languages used to create websites and web applications. HTML, or Hypertext Markup Language, is used to structure and create content for a website. CSS, or Cascading Style Sheets, is used to style the HTML content, such as font size, font color, and other visual elements. PHP is a scripting language used to create dynamic web pages and applications.

Html

HTML (Hypertext Markup Language) is the standard markup language used to create web pages. It is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>). HTML is used to structure the content of a webpage, define the headings, paragraphs, links, images, and more.

CSS

CSS (Cascading Style Sheets) is a language used to control the presentation of websites and other documents written in HTML, XHTML, or XML. It is used to define colors, fonts, layouts, and other aspects of web pages that previously were only possible with HTML tags. CSS allows for more flexibility and control in the presentation of web pages, enabling web designers to create visually appealing and highly interactive websites.

PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a popular general-purpose scripting language that is especially suited to web development. It was originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Group. PHP is a server-side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

- Front-end web development typically involves the use of HTML, CSS, and JavaScript.
- Back-end web development typically involves the use of server-side languages such as PHP, Python, Ruby, Java, and .NET.

We are Used

Front-end – Html,Css,Bootstrap

Back-end – Php

Database – Mysql

MySQL

MySQL is a relational database management system (RDBMS) based on SQL (Structured Query Language). It is the most popular open-source database, used by web developers and organizations around the world to store and manage data. MySQL is a powerful, feature-rich database system, and is used to power websites and applications of all sizes.

6.2 GIT

Status of GIT Repository and Branches

The screenshot shows a GitHub repository page for 'PirapaakaranPirathapan/traffic24'. The repository is public and has 1 branch and 0 tags. The commit history shows several uploads of files like 'Add files via upload' and 'Create README.md'. The repository has 0 stars, 1 watching, and 0 forks. It includes sections for About, Releases, Packages, and Contributors.

About
No description, website, or topics provided.
Readme
0 stars
1 watching
0 forks

Releases
No releases published
Create a new release

Packages
No packages published
Publish your first package

Contributors 3
s92065814

Commit History:

Commit	Message	Author	Date
967691208v	Add files via upload	ad83dde	3 weeks ago
traffic24	start layout		last month
CMMI_Meeting Minutes-1.pdf	Add files via upload		last month
CMMI_Meeting Minutes-2.pdf	Add files via upload		last month
Cluster 3 Group 3.5 - SRS Report-Ap...	Add files via upload		last month
Project Progress Review Presentation...	Add files via upload		3 weeks ago
README.md	Create README.md		last month

The screenshot shows a GitHub repository page for 'PirapaakaranPirathapan / traffic24'. The repository is public and has 1 branch named 'traffic24 / traffic24'. The commit history shows several 'start' commits across various files like 'app', 'bootstrap', 'config', 'database', 'lang/en', 'public', 'resources', 'routes', 'storage', and 'tests'. All commits were made by 'bae2342' on Dec 5, 2022, and are 2 months ago.

Commit History:

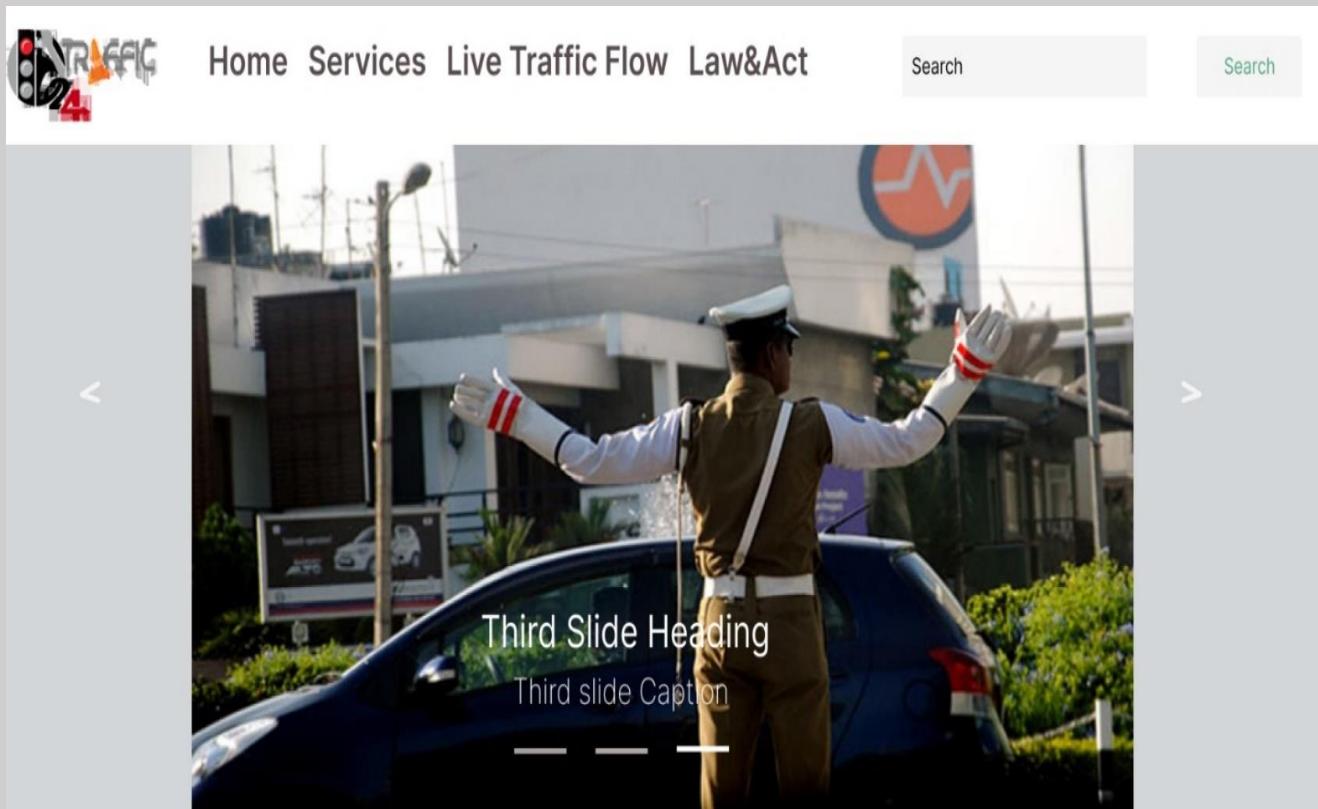
Commit	Message	Author	Date
...			
app	start	bae2342	on Dec 5, 2022
bootstrap	start		2 months ago
config	start		2 months ago
database	start		2 months ago
lang/en	start		2 months ago
public	start layout		2 months ago
resources	start layout		2 months ago
routes	start layout		2 months ago
storage	start		2 months ago
tests	start		2 months ago
.editorconfig	start		2 months ago

6.3 UI design & code for identified main 4 functions.

UI/UX

UI/UX stands for User Interface/User Experience. It is the process of creating user-friendly interfaces that provide an effortless and enjoyable experience for users. It involves creating web pages, apps, and other digital products that are responsive, intuitive, and visually appealing. It focuses on the user's flow, journey, and overall experience of interacting with a product or service.

Figma Design for our project





Home Services Live Traffic Flow Law&Act

Search

Search

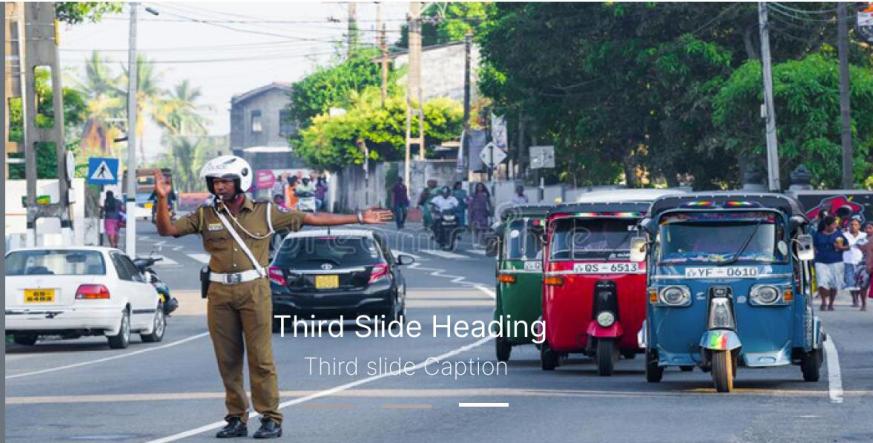


Home Services Live Traffic Flow Law&Act

Search

Search





Third Slide Heading

Third slide Caption

Road Traffic Management System

The purpose of this website is to improve poor transport operations and transport services profitability, reduce traffic jams and fatalities, provide sufficient driving training with ethic, maintain road infrastructure, and strictly maintain traffic law enforcement. Mainly improvised for looking after the set off data of region to manage the Traffic along that rea and implement various useful technologies that are been to require for various persons who are vehicle drivers, pedestrians, Sri Lanka visitors and the traffic police etc. is to give details which can be used and can be implemented in their day to day life without spent more time in a queue



[More](#)



Department of Motor Traffic

Department of Motor Traffic abide by the Motor Traffic Act of Sri Lanka always strive to meet and exceed our Customer expectations, developing and supporting our colleagues to deliver our promise and never compromise social obligations as a responsive public service organization.

[More](#)



[More](#)





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Department of Motor Traffic



Vehicle



Driving
License



Technical
Services



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Sri Lanka Ministry of Justice



More



Legislation



More

Other Local Services



Supreme Court



Court of Appeal



Attorney General Department



Sri Lanka parliament

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Search

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Enter Email Id

Enter password

Login NOW

don't have an account? [register now](#)



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Search

Search

REGISTER NOW

Enter Last Name

Enter Email ID

Enter password

Confirm password

Guest

Register Now

already have an account? [login now](#)

code for identified main 4 functions.

LiveTraffic.html - Traffic-24 - Visual Studio Code

```

File Edit Selection View Go Run Terminal Help
EXPLORER LiveTraffic.html ...
TRAFFIC-24
> css
> images
> js
  admin.page.php
  config.php
  Index.html
  Law.html
  LiveTraffic.html
  login_form.php
  Login.html
  logout.php
  MapStyle.css
  register_form.php
  Register.html
  Services.html
  style2.css
  user_page.php
LiveTraffic.html ...
s92065814, 2 weeks ago | 1 author (s92065814)
1 <!DOCTYPE html> s92065814, 2 weeks ago + Layout of Project ...
2 <html>
3   <head>
4     <meta charset="UTF-8">
5     <title>District Map</title>
6     <style>
7       body{
8         background-image: -o-linear-gradient(270deg, #rgba(74,67,67,1.00) 0%, #rgba(173,184,201,1.00) 39.90%, #rgba(181,204,232,1.00) 63.7
9       }
10    .mapdiv{
11      width: 55%;
12      height: 100px;
13      margin: auto;
14    }
15    .mapdiv path{
16      fill: brown;
17      stroke: #rgb(229, 255, 0);
18      stroke-width: 4px;
19      transition: fill 0.3s;
20    }
21    .mapdiv :hover{
22      fill: #rgb(134, 188, 238);
23    }
24  </style>
25  <link href="css/bootstrap-4.4.1.css" rel="stylesheet">
26  <link href="style.css" rel="stylesheet" type="text/css">
27 </head>
28 <body>
29   <div class="container-fluid">
30     <div class="container">
31       <nav class="navbar navbar-expand-lg navbar-light bg-light"> <a class="navbar-brand" href="Index.html">
34             <ul class="navbar-nav mr-auto">
35               <li class="nav-item" ><a class="nav-link" href="index.html">Home </a> </li>
36               <li class="nav-item" ><a class="nav-link" href="Services.html">Services</a> </li>
37               <li class="nav-item active" ><a class="nav-link" href="LiveTraffic.html">LiveTraffic Flow <span class="sr-only">(current)</span> </li>
</ul>
38         </div>
39       </nav>
40     <div>
41       <h1 class="text-center">&nbsp;</h1>
42       <h1 class="text-center">Department of Motor Traffic</h1>
43       <p>&nbsp;</p>
44     </div>
45     <div class="row">
46       <div class="col-md-3">
47         <div class="card col-md-8 offset-md-4"><a href="login_form.php">
49       </div>
50     </div>
51   </div>
52 </body>
53 </html>

```

Services.html - Traffic-24 - Visual Studio Code

```

File Edit Selection View Go Run Terminal Help
EXPLORER MapStyle.css logout.php Services.html ...
TRAFFIC-24
> css
  bootstrap-4.4.1.css
  style.css
> images
> js
  admin.page.php
  config.php
  Index.html
  Law.html
  LiveTraffic.html
  login_form.php
  Login.html
  logout.php
  MapStyle.css
  register_form.php
  Register.html
  Services.html
  style2.css
  user_page.php
Services.html ...
s92065814, 2 weeks ago | 1 author (s92065814)
1 <!doctype html> s92065814, 2 weeks ago + Layout of Project ...
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <title>Untitled Document</title>
6     <link href="css/bootstrap-4.4.1.css" rel="stylesheet">
7     <link href="style2.css" rel="stylesheet" type="text/css">
8   </head>
9   <body>
10    <div class="container-fluid">
11      <div class="container">
12        <nav class="navbar navbar-expand-lg navbar-light bg-light"> <a class="navbar-brand" href="Index.html">
15              <ul class="navbar-nav mr-auto">
16                <li class="nav-item" ><a class="nav-link" href="index.html">Home </a> </li>
17                <li class="nav-item active" ><a class="nav-link" href="Services.html">Services <span class="sr-only">(current)</span></a> </li>
18                <li class="nav-item" ><a class="nav-link" href="LiveTraffic.html">LiveTraffic Flow</a></li>
19                <li class="nav-item" ><a class="nav-link" href="Law.html">Law & Act</a></li>
20              </ul>
21            </div>
22          </nav>
23        <div>
24          <h1 class="text-center">&nbsp;</h1>
25          <h1 class="text-center">Department of Motor Traffic</h1>
26          <p>&nbsp;</p>
27        </div>
28        <div class="row">
29          <div class="col-md-3">
30            <div class="card col-md-8 offset-md-4"><a href="login_form.php">
32          </div>
33        </div>
34      </div>
35    </div>
36  </body>
37 </html>

```

File Edit Selection View Go Run Terminal Help

admin_page.php - Traffic-24 - Visual Studio Code

```

EXPLORER TRAFFIC-24
css bootstrap-4.4.1.css style.css
images
js admin_page.php config.php Index.html Law.html
LiveTraffic.html login_form.php Login.html logout.php MapStyle.css register_form.php Register.html Services.html style2.css user_page.php

admin_page.php
s92065814, 2 weeks ago | 1 author (s92065814)
1 <?php
2
3 #include 'config.php';
4
5 session_start();
6
7 if(isset($_SESSION['admin_name'])){ s92065814, 2 weeks ago + Layout of Project
8 | header('location:login_form.php');
9 }
10
11 ?>
12
13 <!DOCTYPE html>
14 <html lang="en">
15 <head>
16   <meta charset="UTF-8">
17   <meta http-equiv="X-UA-Compatible" content="IE=edge">
18   <meta name="viewport" content="width=device-width, initial-scale=1.0">
19   <title>admin page</title>
20
21   <!-- custom css file link -->
22   <link rel="stylesheet" href="css/style.css">
23   <link href="css/bootstrap-4.4.1.css" rel="stylesheet">
24   <link href="style2.css" rel="stylesheet" type="text/css">
25
26 </head>
27 <body>
28
29 <div class="containerphp">
30   <div class="content">
31     <h3>Hi, <span><php echo $_SESSION['admin_name'] ?></span></h3>
32     <h1>welcome</h1>
33     <p>You logged in as Admin</p>
34     <a href="logout.php" class="btn">logout</a>
35
36 </div>
37 </div>

```

master 0 0 3.6 KB s92065814, 2 weeks ago Screen Reader Optimized Lin 7, Col 37 Spaces: 2 UTF-8 CRLF PHP Go Live 8.1

File Edit Selection View Go Run Terminal Help

Index.html - Traffic-24 - Visual Studio Code

EXPLORER TRAFFIC-24
css bootstrap-4.4.1.css style.css
images
js admin_page.php config.php Index.html Law.html
LiveTraffic.html login_form.php Login.html logout.php MapStyle.css register_form.php Register.html Services.html style2.css user_page.php

Index.html
LiveTraffic.html
s92065814, 2 weeks ago | 1 author (s92065814)
1 <!DOCTYPE html> s92065814, 2 weeks ago + Layout of Project
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <title>District Map</title>
6 <style>
7 body{
8 background-image: -o-linear-gradient(270deg, #rgba(74, 67, 54, 0.1), #fff);
9 }
10 .mapdiv{
11 width: 55%;
12 height: 10%;
13 margin: auto;
14 }
15 .mapdiv path{
16 fill: #brown;
17 stroke: #rgb(229, 255, 0);
18 stroke-width: 4px;
19 transition: fill 0.3s;
20 }
21 .mapdiv :hover{
22 fill: #rgb(134, 188, 238);
23 }
24 </style>
25 <link href="css/bootstrap-4.4.1.css" rel="stylesheet">
26 <link href="style.css" rel="stylesheet" type="text/css">
27 </head>
28 <body>
29 <div class="container-fluid">
30 <div class="container">
31 <nav class="navbar navbar-expand-lg navbar-light bg-light">
32 <button class="navbar-toggler" type="button" data-to...
33 <div class="collapse navbar-collapse" id="navbarsupp...
34 <ul class="navbar-nav mr-auto">
35 <li class="nav-item"> <a class="nav-link" href="...
36 <li class="nav-item" <a class="nav-link" href="...
37 <li class="nav-item active" <a class="nav-link" href="

Index.html
s92065814, 2 weeks ago | 1 author (s92065814)
1 <!DOCTYPE html> s92065814, 2 weeks ago + Layout of Project
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <meta http-equiv="X-UA-Compatible" content="IE=edge">
6 <meta name="viewport" content="width=device-width, initial-s...
7 <title>traffic 24</title>
8 <!-- Bootstrap -->
9 <link href="css/bootstrap-4.4.1.css" rel="stylesheet">
10 <link href="style2.css" rel="stylesheet" type="text/css">
11 </head>
12 <body>
13 <div class="container-fluid">
14 <div class="container">
15 <nav class="navbar navbar-expand-lg navbar-light bg-li...
16 <button class="navbar-toggler" type="button" data-to...
17 <div class="collapse navbar-collapse" id="navbarsupp...
18 <ul class="navbar-nav mr-auto">
19 <li class="nav-item active" <a class="nav-link" href="...
20 <li class="nav-item" <a class="nav-link" href="...
21 <li class="nav-item" <a class="nav-link" href="...
22 <li class="nav-item" <a class="nav-link" href="...
23
24 <form class="form-inline my-2 my-lg-0">
25 <input class="form-control mr-sm-2" type="search">
26 <button class="btn btn-outline-success my-2 my-s...
27 </form>
28 </div>
29 </nav>
30 <div id="carouselExampleIndicators1" class="carousel...
31 <ol class="carousel-indicators">
32 <li data-target="#carouselExampleIndicators1" data...
33 <li data-target="#carouselExampleIndicators1" data...
34 <li data-target="#carouselExampleIndicators1" data...
35
36 <div class="carousel-inner" role="listbox">
37 <div class="carousel-item active">

master 0 0 7.4 KB s92065814, 2 weeks ago Screen Reader Optimized Lin 1, Col 1 Spaces: 2 UTF-8 CRLF HTML Go Live 8.1

Out put

The screenshot shows a web browser window with the URL `localhost/Traffic-24/`. The page features a header with the logo "TRAFFIC 24" and navigation links for Home, Services, LiveTraffic Flow, and Law & Act. A search bar with a green "Search" button is also present. Below the header is a large image of a traffic police officer in uniform directing traffic with arms raised. Overlaid on this image are the words "Third slide Heading" and "Third slide Caption". The main content area contains the heading "Road Traffic Management System" and a detailed paragraph about the website's purpose. At the bottom, there is another image of a traffic police officer managing a busy street with various vehicles like cars and tuk-tuks.

Road Traffic Management System

The purpose of this website is to improve poor transport operations and transport services profitability, reduce traffic jams and fatalities, provide sufficient driving training with ethic, maintain road infrastructure, and strictly maintain traffic law enforcement. Mainly improvised for looking after the set off data of region to manage the Traffic along that rea and implement various useful technologies that are been to require for various persons who are vehicle drivers, pedestrians, Sri Lanka visitors and the traffic police etc. is to give details which can be used and can be implemented in their day to day life without spent more time in a queue

This screenshot is identical to the one above, showing the same website layout and content. It features the "TRAFFIC 24" logo, navigation links, a search bar, and a large image of a traffic police officer directing traffic. Overlaid on this image are the words "First slide Heading" and "First slide Caption". Below the image, the heading "Road Traffic Management System" and its purposeful paragraph are displayed, along with another image of a traffic police officer managing a street scene.

Road Traffic Management System

The purpose of this website is to improve poor transport operations and transport services profitability, reduce traffic jams and fatalities, provide sufficient driving training with ethic, maintain road infrastructure, and strictly maintain traffic law enforcement. Mainly improvised for looking after the set off data of region to manage the Traffic along that rea and implement various useful technologies that are been to require for various persons who are vehicle drivers, pedestrians, Sri Lanka visitors and the traffic police etc. is to give details which can be used and can be implemented in their day to day life without spent more time in a queue

6. Test Results

Revision and Execution history

	A	B	C	D	E	F	G	
1								
2		Revision and Execution History						
3								
4								
5								
6								
7	Project Name	Traffic24						
8	Document References							
9	Test Objective	Testing the functionality						
10								
11								
12								
13	Test Execution Summary							
14	Functionality / Status	Pass	Fail	On Hold	Not Executed	Not Applicable	Total	
15	Total Test Cases	19	0	0	0	0	19	
16	Total	19	0	0	0	0	19	
17								
18								
19								
20	Design Revision History							
21	Version	Date of Revision	Author	Reviewed by	Comments			
22	Initial version created	28/12/2022	Pirathapan, Thanujan, Irfan, komathy	Pirathapan, Thanujan	All fine			
23	Update the document	30/12/2022	Pirathapan, Thanujan, Irfan, komathy	M.M.Irfan, komathy	Things working well			
24								
25								
26								
27								
28								
29	Revision & Execution History							
30								

UI

Test Cases Summary													
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Author: Traffic24 Team			Test Cases Summary	Count								
2	Date Created:	28/12/2022			Pass 11								
3	Last Updated:	30/12/2022			Fail 0								
4	Version:	1			On Hold 0								
5	Environment:	Windows 7,10, web			Not Executed 0								
6	Release/Build:	site, apk			Not Applicable 0								
7	Functional Group:			Total Test Cases	11								
8	Revision & Execution History												
9	Test Case ID	Feature Description	Prerequisites	Test Description (test steps)	Input Data	Expected Result	Actual Result	Test Results	Comments	Defect ID	Test Case Type	Severity	Requirement Reference
10	UI												
11	Login form												
12	Lg_UI001	Verify the login display menu of the system	User has installed the system in the machine.	Click on the short cut icon.	N/A	User should be able to display the login menu with user name and password fields to add.	Pass			UI	High		
13	Lg_UI002	Verify the 'OK' functionality of the login menu	User has installed the system in the machine.	Click on the short cut icon. Enter the login details. Click on Ok button	N/A	User should be able to navigate to the system window.	Pass			UI	High		
14	Lg_UI003	Verify the 'Cancel' functionality of the login menu	User has installed the system in the machine.	Click on the short cut icon. Enter the login details. Click on Cancel button	N/A	User should be able to close the login menu	Pass			UI	High		
15	main page												
16	Mp_UI001	Verify the lay out of the prison detail form	User has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.pdf	Pass			UI	High		
17	Mp_UI002	Verify the '>' of the prison detail form	User has logged in to system	Login to the system. Observe the page Click on the arrow button	N/A	User should be able to redirect to the next form.	Pass			UI	Low		
18	Traffic page												
19	Tr_UI001	Verify the Traffic display menu of the system	Traffic has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.	Pass			UI	Low		
20	Tr_UI002	enter the traffic details of the system	Traffic has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.	Pass			UI	Low		
21	Tr_UI003	Click the submit button of the system	Traffic has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.	Pass			UI	Low		
22	Route page												
23	Ro_UI001	Verify the Route display menu of the system	User has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.	Pass			UI	Low		
24	Ro_UI002	enter the Route details of the system	User has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.	Pass			UI	Low		
25	Ro_UI003	Click the submit button of the system	User has logged in to system	Login to the system. Observe the page	N/A	The lay out of the form should be according to the finalized Design sketch.	Pass			UI	Low		
	Revision & Execution History												

Functional

Quality Assurance Test Cases (QATC)											
			Test Cases Summary								
			Count								
Author:	Traffic24 Team		Pass	0							
Date Created:	28/12/2022		Fail	0							
Last Updated:	30/12/2022		On Hold	0							
Version:	1		Not Executed	0							
Environment:	Windows 7, 10, web		Not Applicable	0							
Release/Build:	site.apk		Total Test Cases	0							
Revision & Execution History											
Test Case ID	Feature Description	Prerequisites	Test Description (test steps)	Input Data	Expected Result	Actual Result	Test Results	Comments	Defect ID	Test Case Type	Severity
Lg_F001	Verify the login functionality of the system	User has installed the system in the machine.	Click on the short cut icon. Enter the login details.	N/A	User should be able to logged in to the system.	Pass				Functional	High
Lg_F002	Verify the error message popmenu at wrong login functionality of the system	User has installed the system in the machine.	Click on the short cut icon. Enter the login details.	N/A	User should be able to notify entered user name and password is wrong.	Pass				Functional	High
main page											
Mp_UI001	user Login Authentication	User has logged in to system	Login to the system. Observe the page Click on the arrow button	N/A	User should be able to redirect to the next form.	Pass				Functional	High
Mp_UI002	Verify user Documents	User has logged in to system	Login to the system. Observe the page Click on the arrow button	N/A	User should be able to redirect to the next form.	Pass				Functional	High
Traffic page											
Tr_U1001	Verify Traffic Documents	Traffic has logged in to system	Login to the system. Observe the page Click on the arrow button	N/A	Traffic should be able to redirect to the next form.	Pass				Functional	High
Tr_U1002	enter the traffic details of the system	Traffic has logged in to system	Login to the system. Observe the page	N/A	Traffic should be able to redirect to the next form.	Pass				Functional	High
Route page											
Ro_U1001	Verify Traffic Documents	Route has logged in to system	Login to the system. Observe the page Click on the arrow button	N/A	Route should be able to redirect to the next form.	Pass				Functional	High
Ro_U1002	enter the Route details of the system	Route has logged in to system	Login to the system. Observe the page	N/A	Route should be able to redirect to the next form.	Pass				Functional	High

7. Appendix

SRS



Cluster 3 Group 3.5 -
SRS Report-Approve

Design Document



Design document.pdf

Reflective journal

By M.M. Irfan (S92065814):

Start or edit my journal entry

For the first time I have been start doing a Project related to the course. First we were formed a group with four members in each.

We introduce ourselves and shake hands discussed about this project how to start it. In several meeting we finalized a topic about "Road Traffic Management System". Our scope of this project as a solution for the Road Traffic Management system offers the ability to acquire real time traffic information and Motor Traffic services. In our team experts enables the operators to perform real time data analysis on the information gathered. The aim of this project improving the safety and flow of traffic utilizing traffic capacity more effectively.

In order to collect an information and proposed project to the main client of our project who is the police officer in charge of Traffic Branch in a particular area. So that I met him after get appointment gathered lots of information by interviewing him is a best situation in my life ever.

Later on we all divided our tasks by topic wise and performing indeed. By doing in a team this was helps me to develop my mind and get more course related information from my other teammates and I share them what I know.

In a progressive presentation I performed my best attitude and presentation skills to in front of judges is the first experience ever in my life and it's wonderful and most important 10 minutes are there. For that I prepared myself for long time practice because to avoid my nervousness. We wish to done our presentation in a sequence manner like starter start the presentation and finished by other teammate member in flow.

And Next step we learned about UML Diagrams and its uses in a software industry. We more focus on Class Diagrams and Activity Diagrams so on.

Last edited: Wednesday, 28 December 2022, 6:21 PM (307 words)

By P. Komathy(S92065503)

CITES Quick Links Mobile app

4.How to do it differently in the future with suggested improvements?

Start or edit my journal entry

At this milestone, selection of team members began. With this, the committee members for this project were selected and the project committee was constituted. While creating the group, the group was formed so that only four people can be in a group. A meeting was held with those selected to form the committee, in which P.Pirathapan, M.M Irfan, T. Thanujan and me were present. Then they chose me as the team leader. While selecting the team members, it was discussed whether they were eligible for the courses. I felt that the elected members would work with us or not. Questions our team members asked while creating a team for this project were answered, and processes for filling out the Google Form were discussed. The topic we have chosen is Road Traffic Management System. Presentation slides related to the topic were made. Later, he clarified a few things as a panelist. In it, he talked about the prerequisites for choosing this course. She then advised me to submit a Google Form. We decided to design it as a website so that people can easily use the chosen topic.

Progress Review Presentation

The following task in our project was to deliver a progress review. We must produce a presentation for this that covers the project's concept, scope, historical context, significant SRS parts, and design development.

Then we made our own updates to the files on GitHub. The majority of the coding work has been finished. We worked on this task for a long time. Our cluster had a Zoom conference in the interim and provided a clear description of this accomplishment. I'll do all in my power to improve the following benchmark, and we'll redesign our website to make it easier for people to utilize.

Our project is currently progressing according to milestone 6. We have drawn Architectural diagram, UML diagram etc. for our project.

Last edited: Friday, 30 December 2022, 9:05 PM (314 words)

By P. Pirathapan

CITES Quick Links Mobile app P. Pirathapan

EEY4189 2021/2022 Participants Badges Grades EEY4189 Software Design in Group Course Overview Course Activities Workshops Workshops Self Learning Project Groups

Start or edit my journal entry

1.What happened?
2. How you felt, your thoughts and how you behaved in that situation?
3.How it should have been done? Based on the implications.
4.How to do it differently in the future with suggested improvements?

We started building the website first by creating the framework and then designing it. then we are create database and model then created handle function after bug fixing then checking other devices and other client.

SRS

The software requirements specification (SRS) was completed in preparation for submission. During this time, a meeting was scheduled and held on a particular day.

Our team leader informed me at the SRS meeting that I needed to complete specific tasks and submit them by a particular deadline. We talked about writing the product function before.

To build a user-friendly interface, we used HTML, CSS, JavaScript, PHP, MYSQL, and Bootstrap.

Our project is currently progressing according to milestone 6. We have drawn Architectural diagram, UML diagram etc. for our project.

Last edited: Saturday, 31 December 2022, 12:02 AM (125 words)

By S.Thanujan

CITES Quick Links Mobile app S. Thanujan

EEY4189 2021/2022 Participants Badges Grades EEY4189 Software Design in Group Course Overview Course Activities Workshops Workshops Self Learning Project Groups

Start or edit my journal entry

Since this course is about Software Engineering, I expect to become better at engineering software. I expect to learn more about the software process and the necessary steps that must be taken to write code that has quality and efficiency.

I hope to learn the process used to develop quality software. The project will most likely be difficult but it will be interesting to see the final result

selection of team members . While creating the group, the group was formed so that only four people can be in a group. A meeting was held with those selected to form the committee, in which P.Pirathapan , M.M Irfan, P.Komathi and me were present.

Questions our team members asked while creating a team for this project were answered, and processes for filling out the Google Form were discussed.

The topic we have chosen is Road Traffic Management System. Presentation slides related to the topic were made.

we have made a project proposal and submitted the proposal to project coordinator.

We decided to design it as a website so that people can easily use the chosen topic.

i have experienced working in a team for both designing a software project. a project at the first year, as well as working presenting a presentation with a group, as it would cover a huge part in the career field.

Last edited: Friday, 30 December 2022, 10:35 PM (224 words)

Meeting minutes

Meeting No:1

Meeting minutes

Project Title Identification

Meeting Information			
Meeting Date/Time	26 th September 2022 8.30 PM		
Participants	M.M. Irfan P. Komathy P. Pirathapan S. Thanujan		
Estimated Time	1 Hour	Actual Time	45 Minutes
Special Notes	<ul style="list-style-type: none">• Shake hand introduction• Project Title identification discuss		
Call/Location Information	Online Meeting via Zoom Technology		
Supported Documents	Not Applicable		

Agenda:

1. Self-Introduction
2. Gathering Idea about the Course
3. Analysis suitable and not complicated Title for the project
4. Prepare Introduction presentation

Notes/Clarifications:

1. Gathered several titles
2. Finalized with the topic "Road Traffic Management System"

Meeting Minutes:

- M/s. P. Komathy host the meeting and introduce herself first.
- So on every members introducing themselves.
- Rise up different kind of Topics for the project
- M.M. Irfan suggest the topic "Road Traffic Management System"
- All participants accept the Project Topic
- Wind up the meeting by P. Komathy

Action Items:

Action item	Decision made by
M.M. Irfan	Project Topic
P. Komathy	Documentation
P. Prathapan	Frontend and Backend of system
S. Thanujan	Support to P. Prathapan

Meeting No:2

Meeting minutes

Software Requirement Specification

Meeting Information			
Meeting Date/Time	30 th September 2022 9 PM		
Participants	M.M. Irfan P. Komathy P. Pirathapan S. Thanujan		
Estimated Time	1 Hour	Actual Time	1 Hour 30 Minutes
Special Notes	<ul style="list-style-type: none">Divide SRS Documentation Topics to each members		
Call/Location Information	Online Meeting via Zoom Technology		
Supported Documents	Web Search		

Agenda:

- Analyze the SRS template
- Divide Topics to each members

Notes/Clarifications:

Meeting Minutes:

- Leader P. Komathy Start the meeting.
- M.M. Irfan take part of the SRS documentation with introduction section and Interview the client
- P. Prathapan accept doing UI & UX and Coding section and implement the project graphically
- P. Komathy accepted functional requirement and non-functional requirement section
- S. Thanujan support to P. Prathapan for Implementation.

Action Items:

Action item	Decision made by
P. Komathy	Functional, non-functional requirement & Use case Diagram
P. Prathapan, S. Thanujan	UI & UX, Coding, frontend and backend process
M.M. Irfan	Introduction section, Conclusion and client interview

Meeting No:3

Meeting minutes

Progress of SRS Documentation

Meeting Information			
Meeting Date/Time	15 th October 2022 9.30 PM		
Participants	M.M. Irfan P. Komathy P. Pirathapan S. Thanujan		
Estimated Time	30 Min	Actual Time	45 Minutes
Special Notes	• SRS Progress meeting		
Call/Location Information	Online Meeting via Zoom Technology		
Supported Documents	Not Applicable		

Agenda:

1. Progress of the SRS of each members

Notes/Clarifications:

1. All members clarified how far they have been done their tasks.
2. In case need assistance anyone, who finished their task and support each other to accomplish project millstone.

Meeting Minutes:

- P. Prathapan share the meeting link via Whatsapp and Team leader P. Komathy host the meeting.
- Every one clarify their tasks progress
- Irfan ask help to prepare the documentation to submit
- All members support each other's to complete the millstone in time.
- Team leader checked and agree to send the SRS for Supervisor approval and upload into LMS after reveal.

Action Items:

Action item	Decision made by
P. Komathy	Functional, non-functional requirement & Use case Diagram Send to Supervisor approval
P. Prathapan, S. Thanujan	UI & UX, Coding, frontend and backend process
M.M. Irfan	Introduction section, Conclusion and done the client interview and send the signed copy to team leader

Meeting No:4

Meeting minutes

Progress of SRS Documentation - 2nd

Meeting Information			
Meeting Date/Time	3 rd November 2022 8 PM		
Participants	M.M. Irfan P. Komathy P. Pirathapan S. Thanujan		
Estimated Time	30 Min	Actual Time	30 Minutes
Special Notes	<ul style="list-style-type: none">SRS Progress meeting - 2		
Call/Location Information	Online Meeting via Zoom Technology		
Supported Documents	Not Applicable		

Agenda:

- Final Correction of the SRS Document after Supervisor comments.

Notes/Clarifications:

Meeting Minutes:

- Team Leader invite all members in a short meeting
- All members done their tasks correctly
- Only small corrections should rectified and the diagram need to include one more content
- Team leader windup the meeting

Action Items:

Action item	Decision made by
P. Komathy	Removed unwanted information from the SRS report, arranged proper font and alignment and re-submit for approval
M.M. Irfan	Attached annexes (Interview letter, Request mail Screenshot)
P. Pirathapan	Attached UI Screenshot

Meeting No:5

Meeting minutes

Progressive Presentation Milestone

Meeting Information			
Meeting Date/Time	3 rd December 2022 9 PM		
Participants	M.M. Irfan P. Komathy P. Pirathapan S. Thanujan		
Estimated Time	1 Hour	Actual Time	45 Minutes
Special Notes	<ul style="list-style-type: none">Presentation Slide preparation		
Call/Location Information	Online Meeting via Zoom Technology		
Supported Documents	<ul style="list-style-type: none">SRS DocumentProject Proposal Document		

Agenda:

1. 10 min. presentation slides need to prepare
2. Identify what information need to include

Notes/Clarifications:

Meeting Minutes:

- Team Leader invite all members in a meeting
- Each members agree to prepare their presentation slides based on their task
- Requested to practice each members perform 3 slides in 2 minutes time frame
- Prepared presentation need to finished within 2 days for approval

Action Items:

Action item	Decision made by
M.M. Irfan	Introduction, Progress, Attention area and Meeting minutes
P. Pirathapan	Reflective journal, GitHub and UI
P. Komathy	Functional and Non-functional requirement and use of governance tool
S. Thanujan	Document submitted and conclusion

9.Conclusion

Road traffic management system is an important tool for improving the safety and efficiency of road networks. By using advanced technologies such as sensors, cameras, and communication systems, a traffic management system can provide real-time information about traffic conditions, identify and respond to incidents, and optimize traffic flow. However, the success of such a system depends on its ability to integrate data from multiple sources, provide accurate and reliable information, and be easily accessible to users.

Additionally, it is important to consider the cost-benefit analysis, scalability and maintainability of the system before implementation. Overall, a well-designed and implemented road traffic management system can have a significant positive impact on the transportation system and the community it serves. Development of public transport network at economical rates is essential. Implementation of traffic safety rules by traffic police is a must. People should drive more sensibly and responsibly. Hence we all can work in this way to solve the big threat of the current time.

Collaboration and Teamwork – All our team members successfully completed the divided projects. We have completed each and every task of our project in a phased manner as per the Milestone. We can all benefit from using our Project Road Traffic Management System to address the biggest threat of Current time.

Approved By: Ahalikai Suthahaharan

