

A Short Technical Report towards A7604 – Web Technologies Course

Fare Analyzer

Submitted in the Partial Fulfillment of the
Requirements
for the Award of the Degree of

BACHELOR OF TECHNOLOGY
IN
INFORMATION TECHNOLOGY

Submitted

By

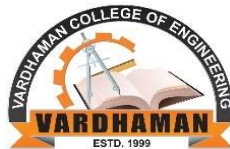
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Department of Information Technology
VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

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ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of the task would be put incomplete without the mention of the people who made it possible, whose constant guidance and encouragement crown all the efforts with success.

We wish to express my deep sense of gratitude to **Mrs. K. Shalini**, Assistant Professor, for her able guidance and useful suggestions, which helped us in completing the design and implementation part of project in time.

We particularly thankful to **Dr. G. Suryanarayana**, Associate Professor & Head, Department of Information Technology for his guidance, intense support and encouragement, which helped us to mould our project into a successful one.

We show gratitude to our honorable Principal **Dr.J.V.R.Ravindra**, for having provided all the facilities and support.

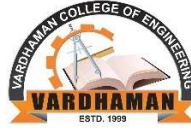
We avail this opportunity to express our deep sense of gratitude and heartfelt thanks to **Dr. Teegala Vijender Reddy**, Chairman and **Sri Teegala Upender Reddy**, Secretary of VCE, for providing congenial atmosphere to complete this project successfully.

We also thank all the staff members of **Web Technologies Course Team** for their valuable support and generous advice. Finally, thanks to all our friends and family members for their continuous support and enthusiastic help.

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VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD

an autonomous institute affiliated to JNTUH

Department of Information Technology

CERTIFICATE

This is to certify that the short technical report work entitled “**Fare Analyzer**” carried out by Mr. **P. Maruthi**, Roll Number **21881A12B4**, Mr. **J. Shashi Preetham**, Roll Number **21881A1294**, Mr. **J. Subash**, Roll Number **21881A1292** towards **A7604 - Web Technologies** course and submitted to the Department of Information Technology, in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Information Technology** during the year 2022-23.

Name & Signature of the Instructor

Mrs. S. Shalini
Assistant Professor

Name & Signature of the HOD

Dr. G. Suryanarayana
HOD, IT

Abstract

Fare Analyzer is a web application designed to help users compare and analyze prices for TSRTC city bus charge to travel within city. The application uses advanced algorithms to process data, providing users with accurate and up-to-date information on travel prices. The application allows users to input their travel details, such as destination, pickup and bus type of travelers, and then displays a comprehensive list of bus fares. Users can filter and pick results based on their preferences, such as price and time flexibility. Fare Analyzer also features a price prediction tool that uses simple algorithms to forecast prices and help users make better decisions on how to travel. The application also provides users with different kinds of passes that are available for citizens one can claim and also provide direct links to apply for passes. In addition to its travel price comparison and analysis features, Fare Analyzer provides users with useful information on travel destinations. The application also allows users to save their search results, compare prices over time, and share their findings with friends and family. Overall, Fare Analyzer is a powerful tool that helps users save time and money on their travel planning by providing them with comprehensive and accurate information on travel prices and options.

CHAPTER 1

INTRODUCTION

1.1 Motivation

The motivation for the project "Fare Analyzer" can stem from various factors. Here are some potential motivations for developing such a project:

1. **Cost optimization:** The project may aim to help individuals or businesses optimize their travel expenses. By analyzing fare data from various transportation providers (such as airlines, trains, buses, etc.), the Fare Analyzer can assist users in finding the most cost-effective options, identifying discounts or promotions, and suggesting alternative routes or modes of transportation to save money.
2. **Time efficiency:** Travel planning can be time-consuming, especially when it involves comparing fares from multiple sources. The Fare Analyzer can simplify this process by aggregating fare information from different providers and presenting it in a user-friendly format. This saves users' time and effort by providing them with a comprehensive overview of available options and allowing them to make informed decisions quickly.
3. **Enhanced travel experience:** The project may aim to improve the overall travel experience for users. By analyzing fare data, the Fare Analyzer can help travelers find the best routes, identify convenient connections, and suggest travel itineraries that minimize travel time, layovers, or other inconveniences. This can contribute to a smoother and more enjoyable journey.
4. **Transparency and empowerment:** The Fare Analyzer can empower users by providing transparent and unbiased fare information. It can help users understand the pricing structure of various transportation providers, identify hidden fees or surcharges, and compare fares across different platforms.

Overall, the motivations for the Fare Analyzer project revolve around cost optimization, time efficiency, improved travel experience, transparency, and providing valuable insights to users and industry stakeholders.

1.2 Scope

The scope of the Fare Analyzer project would encompass various aspects related to analyzing and presenting fare data for different modes of transportation. Here are some key components that could be included in the project scope:

1. **Data collection:** The Fare Analyzer would need to gather fare data from multiple transportation providers, such as airlines, trains, buses, and possibly other modes of transport. This may involve accessing APIs, scraping websites, or establishing partnerships with providers to obtain the necessary data.
2. **Fare aggregation and storage:** The project would involve aggregating and storing the collected fare data in a structured format. This could include details such as origin and destination, travel dates, fare prices, available discounts, and any other relevant information.
3. **Fare analysis algorithms:** The Fare Analyzer would require algorithms to analyze the collected fare data. These algorithms could include features such as fare comparisons, identifying the best routes or connections, highlighting discounts or promotions, and suggesting alternative travel options.
4. **User interface:** The project would involve developing a user-friendly interface where users can input their travel details, view fare options, and access the analysis results. The interface should be intuitive, responsive, and provide an efficient way for users to compare fares and make informed decisions.
5. **Presentation of results:** The Fare Analyzer would need to present the analysis results in a clear and understandable manner. This could involve displaying fare comparisons, highlighting the most cost-effective options, providing visualizations

CHAPTER 2

PROJECT DESIGN

The architecture of the Lab Evaluation System is designed to be efficient, scalable, and user-friendly. It consists of the following key components:

Front-End:

- **User Interface:** The front-end includes the user interface where instructors and students interact with the system. It is developed using HTML, CSS, and JavaScript to create a visually appealing and intuitive design.
- **Modal:** The system uses a modal to display the view of marks within the main page for a seamless user experience.

Back-End:

- **Web Server:** The system is hosted on a web server that handles HTTP requests and responses.
- **PHP:** The back-end logic is written in PHP, which processes form submissions, calculates total marks, and interacts with the database.
- **Database:** The system utilizes a MySQL database to store user information, marks, and other relevant data securely.

User Authentication:

- **Login System:** User authentication is implemented to ensure that only registered users (instructors) can access the system. This is achieved through username and password validation during login.

Database Management:

- **Database Connectivity:** PHP establishes a connection with the MySQL database to store and retrieve user data and marks.
- **Tables:** The database includes tables for user information and user_marks, where marks entered by instructors for each student are stored along with their respective weeks.

Evaluation Process:

- **Data Entry:** Instructors can enter marks for each student's performance in weekly laboratory sessions. The system calculates the total marks based on the components (obs, rec, exe, viva, disc) entered by instructors.
- **Timely Feedback:** Instructors can provide feedback to students, enabling them to track their progress and identify areas for improvement.

Access Control:

- **User Roles:** The system distinguishes between instructors and students, providing separate functionalities and access privileges for each user type. Instructors can manage marks, while students can view their individual marks and feedback.

Security:

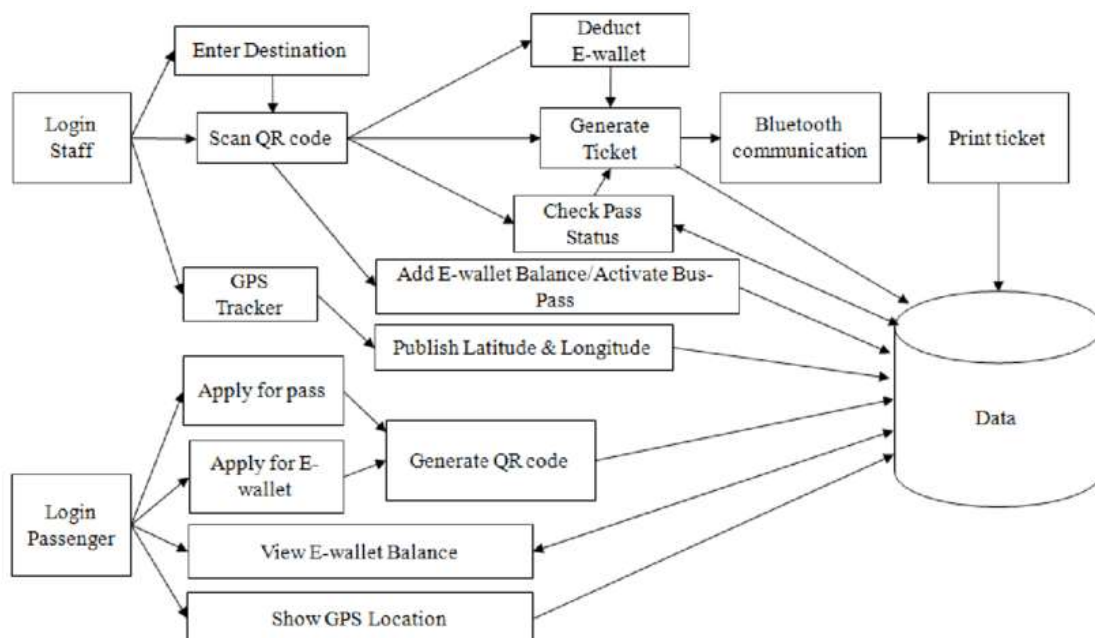
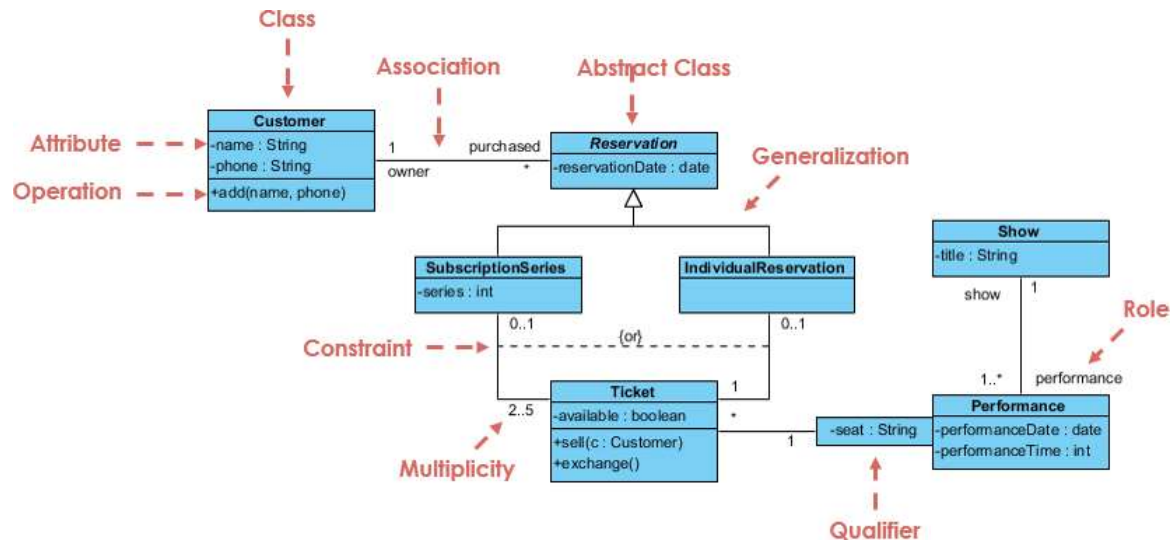
- **Data Encryption:** The system employs secure data encryption techniques to protect sensitive information such as user passwords.
- **Parameterized Queries:** To prevent SQL injection attacks, PHP uses parameterized queries when interacting with the database.

Scalability:

- The system is designed to handle a growing number of users, courses, and evaluation data as educational institutions expand.
- The architecture of the Lab Evaluation System follows a client-server model, where the front-end interacts with the back-end server to process and store data securely. By incorporating modern web development technologies and ensuring data privacy, the architecture promises to deliver a reliable and efficient solution for laboratory evaluation in educational settings.

CHAPTER 3

ARCHITECTURE



CHAPTER 4

IMPLEMENTATION

Home.html:

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>home</title>
    <link rel="stylesheet" type="text/css" href="css/home.css"
  </head>
  <body>
    <header>
      <div class="div1">
        <h1 align="center"><b>TSRTC</b></h1>
      </div>
      <div class="div2">
        <ul align="center">
          <li class="active"><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/home.html">HOME</a></li>
          <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/analyser.html">FARE ANALYSIS</a></li>
          <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/passes.html">PASSES AVAILABLE</a></li>
          <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/about.html">ABOUTS</a></li>
        </ul>
      </div>
      <div class="homepage">

        <p><b>CLICK HERE FOR :- <a
href="https://online.tsrtcpass.in/generalbuspass.do?category=Fresh">
          City General Commuter          </a></b></p>
        <p><b>CLICK HERE FOR :- <a
href="https://online.tsrtcpass.in/searchPass.do?mode=editDetails">
          Student Services
          </a></b></p>

      </div>
    </header>
  </body>
</html>
```

Home.css

```
.{
    margin: 0px;
    padding: 0px;
    font-family: sans-serif;
}
.div1{
    margin-top: 50px;
    background-color: rgb(237, 120, 206);
}
.div2 ul{
    margin-top: 0px;
    background-color: darkseagreen;
    float: center;
}
.div2 ul li{
    display: inline-block;
    padding: 5px 80px;
    border: 1px solid transparent;
    transition: 0.6s ease;
}
.div2 ul :hover{
    background-color: #000;
    color: darkseagreen;
}
.div2 ul li.active{
    background-color: #000;
    color: darkseagreen;
}
body{
    background-image: url(../photos/bus2.jpg);
    height: 100vh;
    background-position: center;
    background-size: cover;
}
.title{
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%,-50%);
}
.homepage{
    background-color: blanchedalmond;
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%,-50%) ;
}
```

```

}
.homepage:hover{
    cursor: pointer;
}
.homepage:hover p{
    color: crimson;
}

```

About.html:

```

<!DOCTYPE HTML>
<html>
    <head>
        <title>about</title>
        <link rel="stylesheet" type="text/css" href="css/about.css"
    </head>
    <body>
        <header>
            <div class="div1">
                <h1 align="center"><b>TSRTC</b></h1>
            </div>
            <div class="div2">
                <ul align="center">
                    <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/home.html">HOME</a></li>
                    <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/analyser.html">FARE ANALYSIS</a></li>
                    <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/passes.html">PASSES AVAILABLE</a></li>
                    <li class="active"><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/about.html">ABOUTS</a></li>
                </ul>
            </div>
            <div class="container">
                <div class="card">
                    
                    <div class="intro">
                        <h1>Maruthi</h1>
                        <p>RollNo:21881A12B4</p>
                        <p>Branch:Information Technology</p>
                        <p><A
href="https://www.instagram.com/maruuthipabbathi/"> instagram
profile</A></p>

```

```

        </div>
    </div>
    <div class="card">
        
        <div class="intro">
            <h1>Subash</h1>
            <p>RollNo:21881A1292</p>
            <p>Branch:Information Technology</p>
            <p><A
href="https://www.instagram.com/subash_reddy_jale/"> instagram
profile</A></p>
        </div>
    </div>
    <div class="card">
        
        <div class="intro">
            <h1>Shashi</h1>
            <p>RollNo:21881A1294</p>
            <p>Branch:Information Technology</p>
            <p><A
href="https://www.instagram.com/shashi_preetham_0702/"> instagram
profile</A></p>
        </div>
    </div>
</div>
</header>
</body>
</html>

```

About.css

```

.{
    margin: 0px;
    padding: 0px;
    font-family: sans-serif;
}
.div1{
    margin-top: 50px;
    background-color: rgb(237, 120, 206);
}
.div2 ul{
    margin-top: 0px;
    background-color: darkseagreen;
    float: center;
}
.div2 ul li{
    display: inline-block;

```

```

padding: 5px 80px;
border: 1px solid transparent;
transition: 0.6s ease;
}
.div2 ul :hover{
background-color: #000;
color: darkseagreen;
}
.div2 ul li.active{
background-color: #000;
color: darkseagreen;
}
body{
background-image: url(../photos/bus2.jpg);
height: 100vh;
background-position: center;
background-size: cover;
}
.title{
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%,-50%);
}
.container{
display: flex;
align-items: center;
left: 50%;
color: whites;
}
.card{
height: 500px;
margin: 50px0;
box-shadow: 5px 5px 20px black;
overflow: hidden;
}
img
{
height: 500px;
width: 350px;
border-radius: 5px;
}
.intro{
height: 75px;
width: 350px;
padding: 6px;
background: rgb(27, 27,27,.5);
color: white;
position: absolute;
bottom: 240px;

```

```

    box-sizing: border-box;
    transition: .7s;
}
h1{
    margin: 20px;
    font-size: 40px;
}
p{
    margin:20px ;
    font-size: 20px;
    visibility: hidden;
    opacity: 0;
}
span{
    font-weight: bold;
}
.card:hover{
    cursor: pointer;
}
.card:hover .intro{
    height: 220px;
    bottom: 240px;
    background: black;
}
.card:hover p{
    opacity: 1;
    visibility: visible;
}
.card:hover img{
    transform: scale(1.1) rotate(-3deg);
    transition: .5s;
}

```

Analyser.html

```

<!DOCTYPE HTML>
<html>
    <head>
        <title>fare_analysis</title>
        <link rel="stylesheet" type="text/css"
href="css/analysissheet.css">
        <script>
            function Analyser()
            {

            }
        </script>
    </head>

```

```

<body>
  <header>
    <div class="div1">
      <h1 align="center"><b>TSRTC</b></h1>
    </div>
    <div class="div2">
      <ul align="center">
        <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/home.html">HOME</a></li>
        <li class="active"><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/analyser.html">FARE ANALYSIS</a></li>
        <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/passes.html">PASSES AVAILABLE</a></li>
        <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/about.html">ABOUTS</a></li>
      </ul>
    </div>
    <div class="analyser">
      <form align="center">
        <legend> FARE ANALYSER </legend>
        <HR>
        <div class="bustype">
          <p><b> Bus Type </b></p>
          <label> Metro<input
type="radio" id="bustype" name="bustype" value="Metro"/><br>
          <label> Ordinary<input type="radio" name="bustype"
value="Ordinary"/></label><br>
        </div>
        <br>
        <div class="startend">
          <p><b>Enter pickup and drop points</b></p>
          <label>Pickup Point <input type="text"
id="start"></label>
          <label>Drop Point<input type="text"
id="end"></label>
        </div>
        <br>
        <div class="button">
          <button onClick="Analyser()">Check</button>
        <br>
      </div>
    </form>
  </div>

```



```

    </header>
  </body>
</html>

```

Analysis.css

```

.{
  margin: 0px;
  padding: 0px;
  font-family: sans-serif;
}
.div1{
  margin-top: 50px;
  background-color: rgb(237, 120, 206);
}
.div2 ul{
  margin-top: 0px;
  background-color: darkseagreen;
  float: center;
}
.div2 ul li{
  display: inline-block;
  padding: 5px 80px;
  border: 1px solid transparent;
  transition: 0.6s ease;
}
.div2 ul :hover{
  background-color: #000;
  color: darkseagreen;
}
.div2 ul li.active{
  background-color: #000;
  color: darkseagreen;
}
body{
  background-image: url(../photos/bus2.jpg);
  height: 100vh;
  background-position: center;
  background-size: cover;
}
.title{
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
}
.analyser{

```

```

        position: absolute;
        top: 50%;
        left: 50%;
        transform: translate(-50%,-50%);
        background-color: bisque;
    }
    .bustype{
        background-color: aliceblue;
    }
    .startend{
        background-color: aliceblue;
    }
    .analyser:hover{
        cursor: pointer;
    }
    .analyser:hover .bustype{
        height: 95px;
        bottom: 75px;
    }
    .analyser:hover .startend{
        height: 95px;
        bottom: 75px;
    }
    .analyser:hover .button{
        height: 50px;
        bottom: 50px;
    }
}

```

Passes.html

```

<!DOCTYPE HTML>
<html>
    <head>
        <title>passes_available</title>
        <link rel="stylesheet" type="text/css"
href="css/passes_available.css"
        </head>
    <body>
        <header>
            <div class="div1">
                <h1 align="center"><b>TSRTC</b></h1>
            </div>
            <div class="div2">
                <ul align="center">
                    <li ><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/home.html">HOME</a></li>

```

```

        <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/analyser.html">FARE ANALYSIS</a></li>
        <li class="active"><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/passes.html">PASSES AVAILABLE</a></li>
        <li><a
href="file:///C:/Users/marut/OneDrive/Desktop/my%20IV%20semester/courseendp
roject/about.html">ABOUTS</a></li>
    </ul>
</div>
<table align="center" border="2px" bgcolor="blue">
    <thead>
        <tr>
            <td>S.No</td>
            <td>Bus-Pass Type</td>
            <td>Description</td>
            <td>Link</td>
            <td>Cost</td>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td>01</td>
            <td>Student Free Bus Passes</td>
            <td>Student below 12 years @ Girl Student Upto X
Class and Below 18 years Bus Pass</td>
            <td><a href=""></a>Click Here</td>
            <td>500/-</td>
        </tr>
        <tr>
            <td>02</td>
            <td>Student Concessional Route Passes in
Cities</td>
            <td>Student below 15 years @ Girl Student Upto X
Class and Below 21 years Bus Pass</td>
            <td><a href=""></a>Click Here</td>
            <td>550/-</td>
        </tr>
        <tr>
            <td>03</td>
            <td>Physically Challenged Bus Passes</td>
            <td>Student below 17 years @ Girl Student Upto XII
Class and Below 18 years Bus Pass</td>
            <td><a href=""></a>Click Here</td>
            <td>700/-</td>
        </tr>
        <tr>
            <td>04</td>
            <td>Student Free Bus Passes</td>

```

```
 Student below 12 years @ Girl Student Upto X Class and Below 15 years Bus Pass</td>  <a href=""></a>Click Here</td>  900/-</td> </tr> <tr>  05</td>  Student Free Bus Passes</td>  Student below 15 years @ Girl Student Upto X Class and Below 21 years Bus Pass</td>  <a href=""></a>Click Here</td>  800/-</td> </tr> </tbody> </table> </header> </body> </html> | | | | | | | |
```

Passes.css

```

.class{
    margin: 0px;
    padding: 0px;
    font-family: sans-serif;
}
.div1{
    margin-top: 50px;
    background-color: rgb(237, 120, 206);
}
.div2 ul{
    margin-top: 0px;
    background-color: darkseagreen;
    float: center;
}
.div2 ul li{
    display: inline-block;
    padding: 5px 80px;
    border: 1px solid transparent;
    transition: 0.6s ease;
}
.div2 ul :hover{
    background-color: #000;
    color: darkseagreen;
}
.div2 ul li.active{
    background-color: #000;
    color: darkseagreen;
}

```

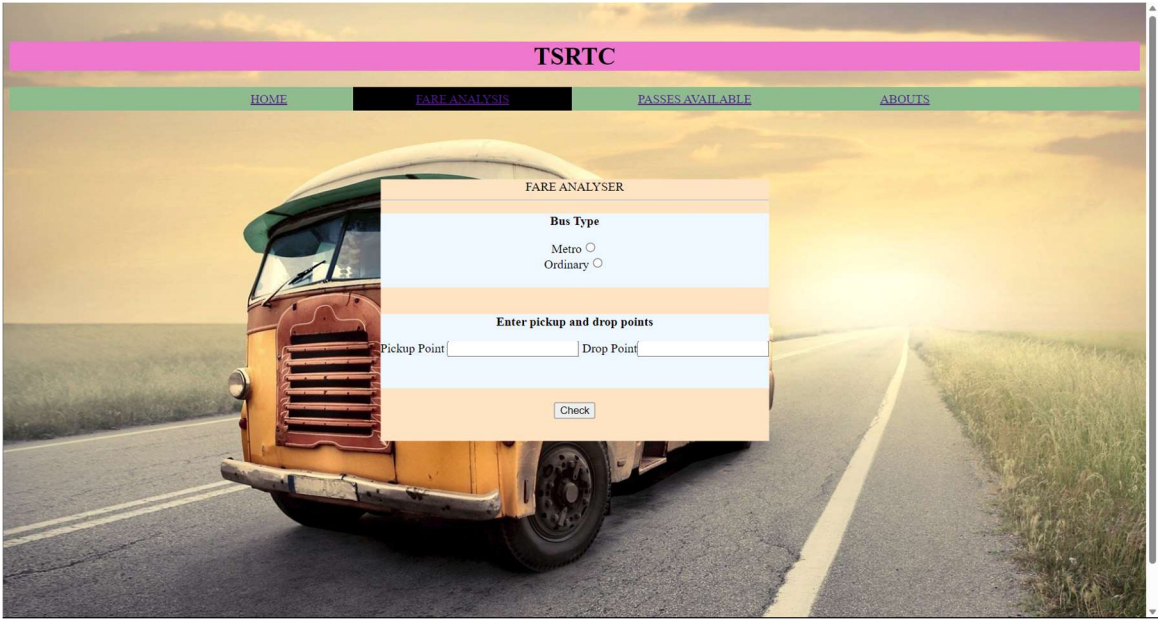
```
body{  
  background-image: url(../photos/bus2.jpg);  
  height: 100vh;  
  background-position: center;  
  background-size: cover;  
}  
.title{  
  position: absolute;  
  top: 50%;  
  left: 50%;  
  transform: translate(-50%,-50%);  
}
```

CHAPTER 5
RESULTS

Home page:



Fare Analyzer:



oy

Passes Available:

TSRTC

HOME

FARE ANALYSIS

PASSES AVAILABLE

ABOUTS

S.No	Bus Pass Type	Description	Link	Cost
01	Student Fare Bus Passes	Student below 12 years @ Girl Student Upto X Class and Below 18 years Bus Pass	Click Here	200
02	Student Conventional River Passes on 4 days	Student below 12 years @ Girl Student Upto X Class and Below 21 years Bus Pass	Click Here	350
03	Physically Challenged Bus Passes	Student below 12 years @ Girl Student Upto XI Class and Below 18 years Bus Pass	Click Here	700
04	Student Free Bus Passes	Student below 12 years @ Girl Student Upto X Class and Below 15 years Bus Pass	Click Here	900
05	Student Free Bus Passes	Student below 15 years @ Girl Student Upto X Class and Below 21 years Bus Pass	Click Here	900

About Page:


TSRTC

HOME

FARE ANALYSIS

PASSES AVAILABLE

ABOUTS




Maruthi


RollNo:21881A12B4

Branch:Information Technology

[instagram profile](#)



Subash



Shashi

23 |