

NMAM INSTITUTE OF TECHNOLOGY

(A unit of Nitte Education Trust)

Nitte - 574 110, Karkala taluk, Udupi Dist., Karnataka

Department of Computer Science and Engineering.

RDBMS PROJECT REPORT ON METRO RAIL MANAGEMENT SYSTEM.

PROJECT ASSOCIATES

Manjunatha Patkar

Keerthesh S

4NM17CS100

4NM17CS087

V Sem, Sec 'B'

V Sem, Sec 'B'

Dept of C.S.E

Dept of C.S.E

PROJECT GUIDES

Ms.Anusha Anchan

Ms.Ankitha A. Nayak

Dept of C.S.E

Dept of C.S.E

NMAMIT

NMAMIT

ABSTRACT

This is an integrated service which provide all information about the metro rail and it's routes for public. The proposed system is a web based application which provides information regarding timings, routes, fair.

This system manages public feedback about services through it's complaint management system. This system also contains an online ticket recharge module where users can recharge their smart cards online through the site.

There is also an admin module where admin can add stations, trains, routes and also update the fares. The admin is a panel consisting of a group of authorized persons.

TABLE OF CONTENTS

Chapter	Page no.
1. CERTIFICATE	4
2. ACKNOWLEDGEMENT	5
3. INTRODUCTION	6-7
4. PROBLEM STATEMENT	8
5. DATABASE DESIGN	9-10
6. FRONT END TECHNOLOGY	11
7.BACK END TECHNOLOGY	12
8.SCREENSHOTS	13-21
9.CONCLUSION	22
10.REFERENCES	23

CERTIFICATE

Certified that the project work carried out by Manjunatha Patkar (4NM17CS100) and Keerthesh S(4NM17CS087) bonafide students of NMAM Institute of Technology, Nitte in fulfilment for the Relational database Management System lab in Computer Science and Engineering during the academic year 2019-2020.

Signature of the Examiners:

Signature of the Guide:

1.

2.

ACKNOWLEDGEMENT

The satisfactions that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible. So we acknowledge all those whose guidance and encouragement served as a beacon of light and crowned our efforts with success.

We are thankful to our project guide, Ms. ANUSHA ANCHAN, Dept. of CSE for her valuable guidance and advice. Her willingness to motivate us contributed tremendously to our project.

We would like to place on record our deep sense of gratitude to Dr. K. R. Udaya Kumar Reddy, HOD-Dept. of Computer Science and Engineering, NMAMIT, Nitte for his generous guidance, help and useful suggestions. We also acknowledge and express our sincere thanks to our beloved Dr. Niranjan N. Chiplunkar, Principal, NMAMIT, Nitte who is a source of inspiration to us.

We thank all the Teaching and Non-Teaching staff members of the department of CSE for providing resources for the completion of the project. A special thanks goes to our parents, friends and relatives for supporting and encouraging us in all ways thus making our projects successful. Finally, we thank all those who have contributed directly or indirectly in making this project a grand success.

Manjunatha Patkar
(4NM17CS100)

Keerthesh S
(4NM17CS087)

CHAPTER 3

INTRODUCTION

This is an integrated service which provide all information about the metro rail and it's routes for public. The proposed system is a web based application which provides information regarding timings, routes, fare. This system manages public feedback about services through it's complaint management system. This system also contains an online ticket recharge module where users can recharge their smart cards online through the site.

There is also an admin module where admin can add stations, trains, routes and also update the fares. The admin is a panel consisting of a group of authorized persons.

OBJECTIVE

. The objectives of the project are as follows:

- Users can register complaints through the site.
- User login page where users can recharge tickets online.
- Users can view metro timetable.
- User can also view the fare details and the route map.
- An admin login page where admin can add stations, trains, routes , update fares and even add a new admin.

Product Description:

Metro rail management system is an online system which helps the user to recharge their tickets online, it also have a complaint management system in which users can register their complaints online.

By visiting the site the users can get metro time table. Other than that by entering the source station and destination station the users can get all sorts of information about trains arriving and departing from the stations, it's fare details and even it provides you the route map.

CHAPTER 4

PROBLEM STATEMENT

Problem Statement:

The problem occurred before having online system includes:

- File lost

When online system is not implemented the complaints are reported in files. The files are always lost due to some human errors.

- Time consuming

When there is no computerized system then for recharge purposes the users need to travel to the stations and also sometimes even need to stand in large queues for recharge purposes.

- Most updations are unnoticeable

When online systems is not implemented any changes in fare, timings etc when updated ,the details of these things are only available at the stations.

SYSTEM OBJECTIVES

- Improvement in Control and performance

The system is developed to cope up with current issues and problems of the metro rail. The system helps to recharge online, make a complaint online , display metro timetable ,fares and route maps.

- Save time

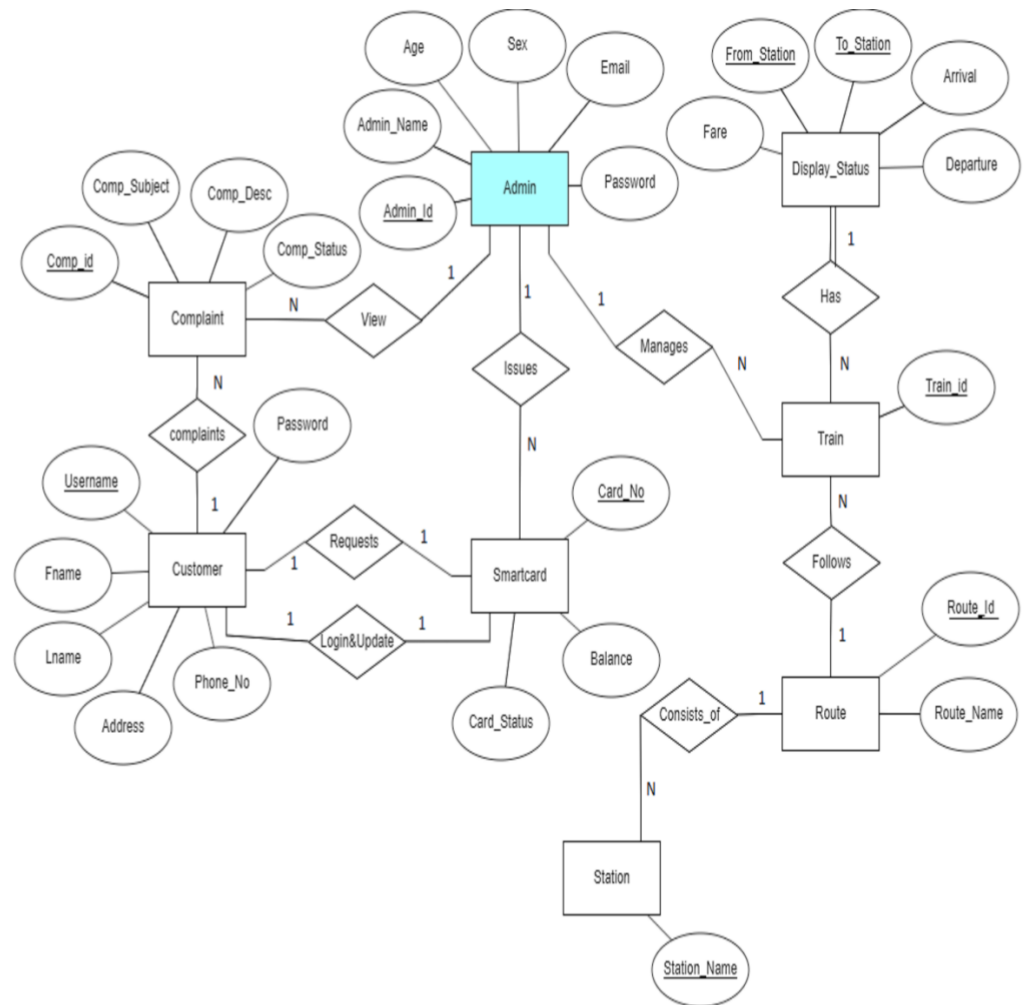
User is able to recharge online, see details of metro time table , fares & route maps and even the user can complaint online there by saving his valuable time.

- Easy to Use

A person with just an internet connection and a pc can do things such as complaint, recharge and view metro details very easily.

CHAPTER 5

ER-Diagram



RELATIONAL DATABASE SCHEMA

CUSTOMER

<u>Username</u>	Fname	Lname	Address	Phone_No	Password
-----------------	-------	-------	---------	----------	----------

ADMIN

<u>Admin_Id</u>	Admin_Name	Age	Sex	Email	Password
-----------------	------------	-----	-----	-------	----------

SMARTCARD

<u>Card_No</u>	Balance	Card_status	Username	Admin_Id
----------------	---------	-------------	----------	----------

ROUTE

<u>Route_Id</u>	Route_Name
-----------------	------------

STATION

<u>Station_Name</u>	Route_Id
---------------------	----------

TRAIN

<u>Train_Id</u>	Admin_Id	Route_Id
-----------------	----------	----------

COMPLAINT

<u>Comp_Id</u>	Comp_Subject	Comp_Desc	Comp_status	Username
----------------	--------------	-----------	-------------	----------

LOGIN

<u>Username</u>	<u>Email</u>
-----------------	--------------

DISPLAY_STATUS

<u>From_Station</u>	<u>To_Station</u>	<u>Train_Id</u>	Arrival	Departure	Fare
---------------------	-------------------	-----------------	---------	-----------	------

CHAPTER 6

FRONTEND TECHNOLOGY

List of technologies for frontend

1. Hyper Text Markup Language(HTML)

Hypertext Markup Language is the standard markup language for creating web pages and web applications.

2. Cascading Style Sheets(CSS)

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language like HTML

3. JavaScript

JavaScript, often abbreviated as JS, is a high-level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm.

CHAPTER 7

BACKEND TECHNOLOGY

List of technologies for Backend

1.PHP

Hypertext Preprocessor is a server-side scripting language designed for Web development, and also used as a general-purpose programming language. It was originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Group.

Database:

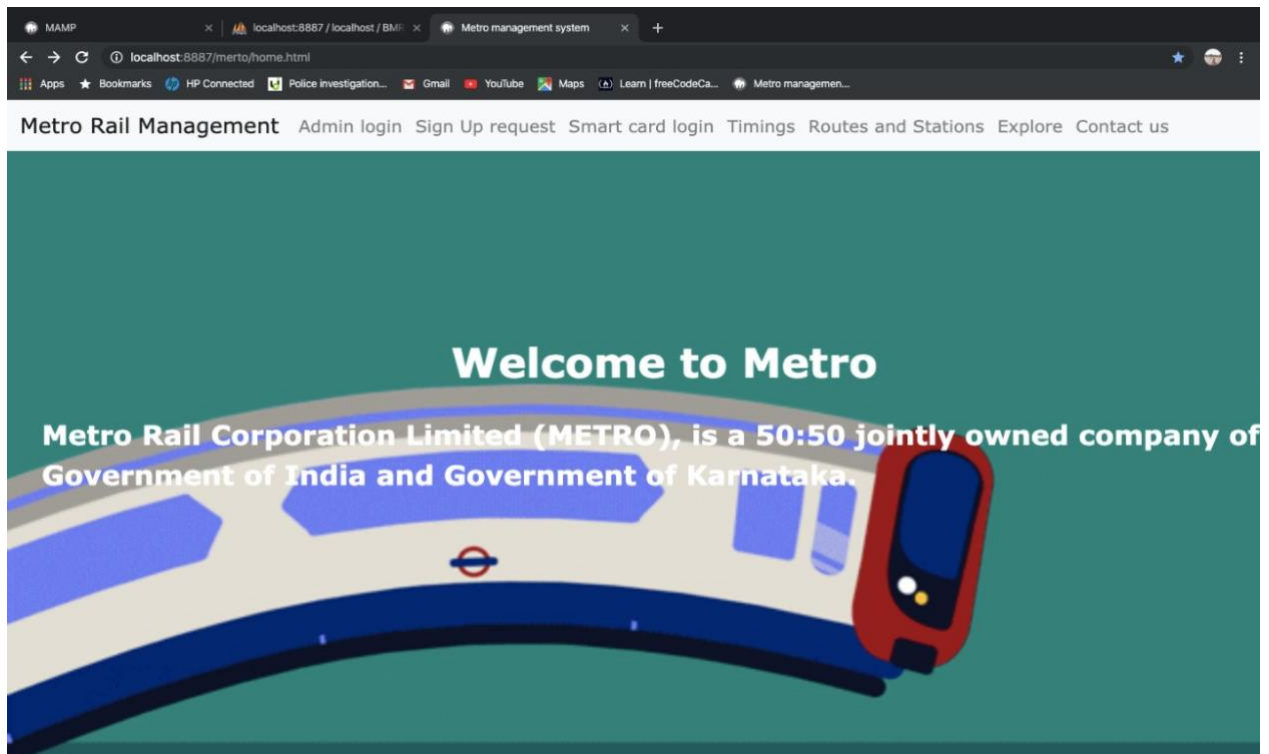
MySQL:

MySQL is an open-source relational database management system. Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.

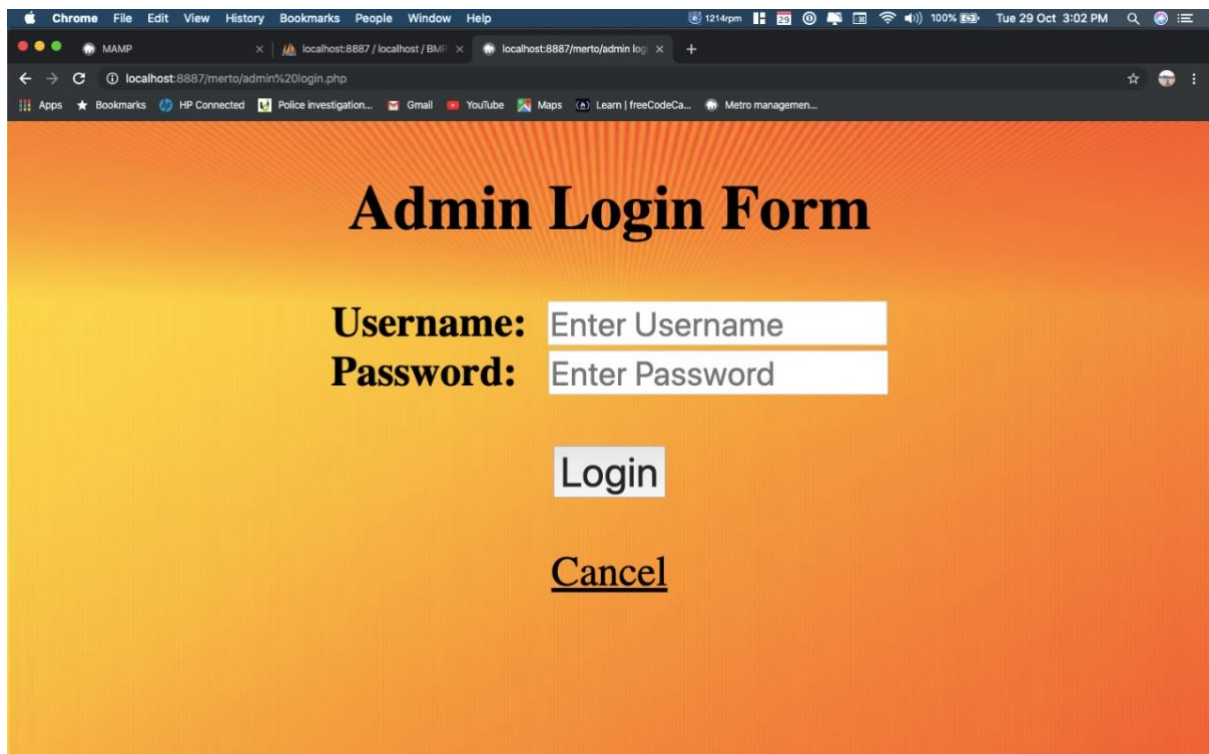
CHAPTER 8

SCREENSHOTS

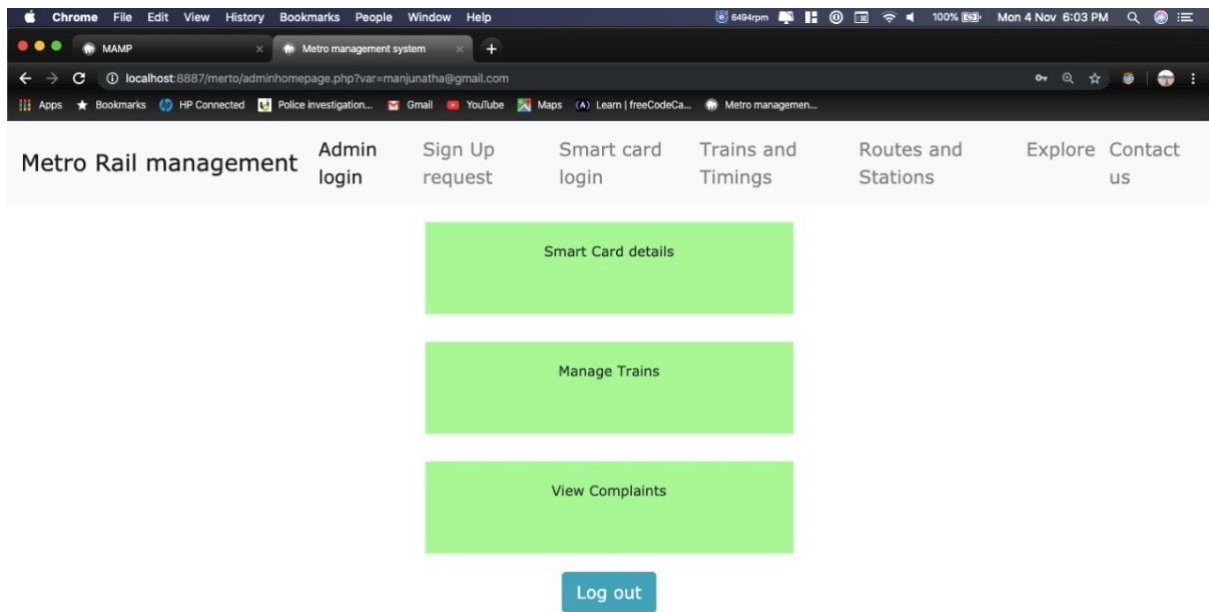
HOME PAGE:



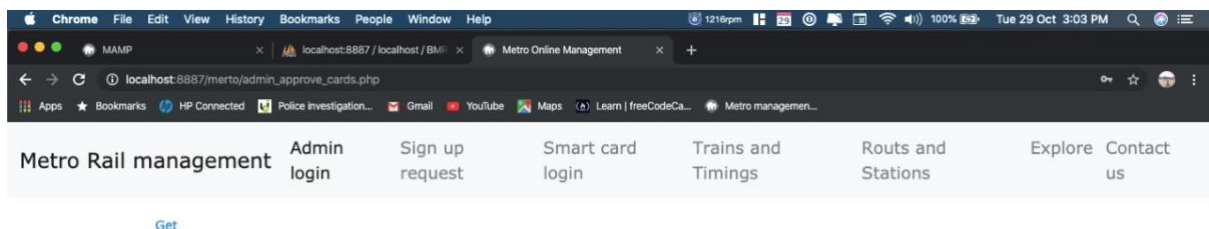
ADMIN LOGIN:



ADMIN LOGIN:

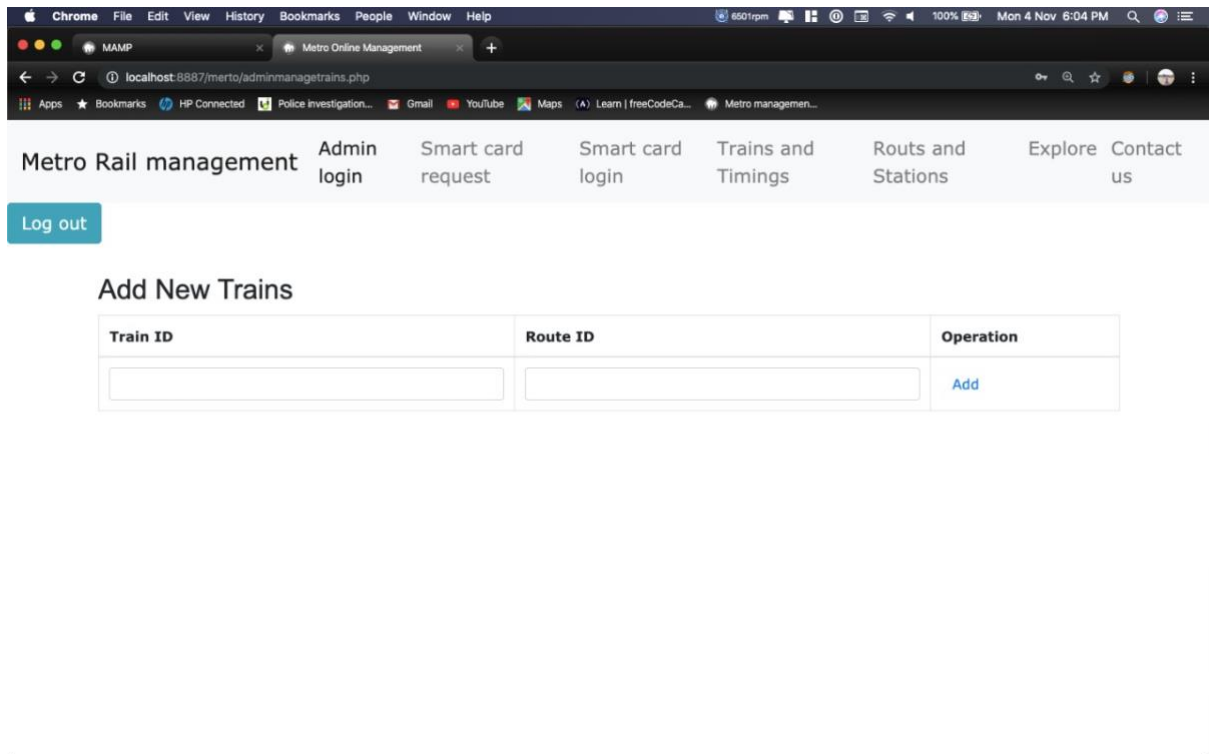


SMART CARD DET



Customer Username	Smart Card Number	Balance
RamadasGB	1122334455	150
DivyaRB	1147088394	500
SwarupE	1234567890	722
ChaitanyaN	1449567841	50
DivyaB	1876543210	50
JayantiR	1880012292	150
SajidKhan	1987654321	100

MANAGE TRAINS:



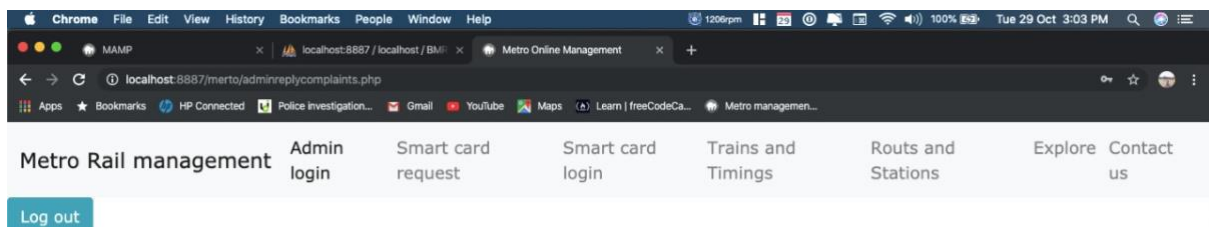
Metro Rail management Admin login Smart card request Smart card login Trains and Timings Routs and Stations Explore Contact us

Log out

Add New Trains

Train ID	Route ID	Operation
<input type="text"/>	<input type="text"/>	Add

VIEW COMPLAINTS:



Metro Rail management Admin login Smart card request Smart card login Trains and Timings Routs and Stations Explore Contact us

Log out

COMPLAINTS

Complaint ID	Complaint subject	Complaint description	Username
1	ABC	abcdefghijklmnopqrstuvwxyz	SwarupE
2	ABCD	abcdefghijklmnopqrstuvwxyz	DivyaRB
3	XYZ	abcdefghijklmnopqrstuvwxyz	DivyaB
4	AVBC	abcdefghijklmnopqrstuvwxyz	SajidKhan
5	ABCB	abcdefghijklmnopqrstuvwxyz	ChaitanyaN
6	ABCD	abcdefghijklmnopqrstuvwxyz	DivyaB
7	ABCD	abcdefghijklmnopqrstuvwxyz	RamadasGB
8	ABC	abcdefghijklmnopqrstuvwxyz	JayantiR

SIGN UP PAGE:

Sign Up Page

Firstname *

Lastname *

Email *

Phone *

Username *

Password *

Address *

* These fields are required.

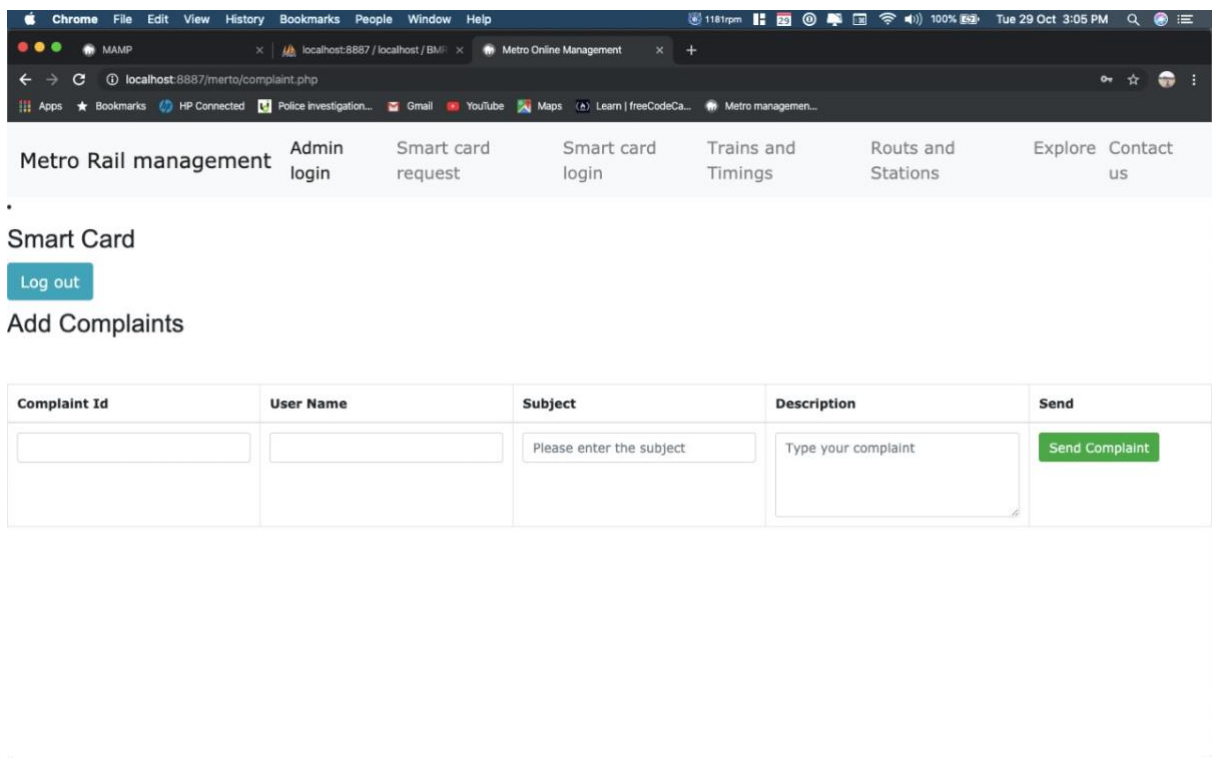
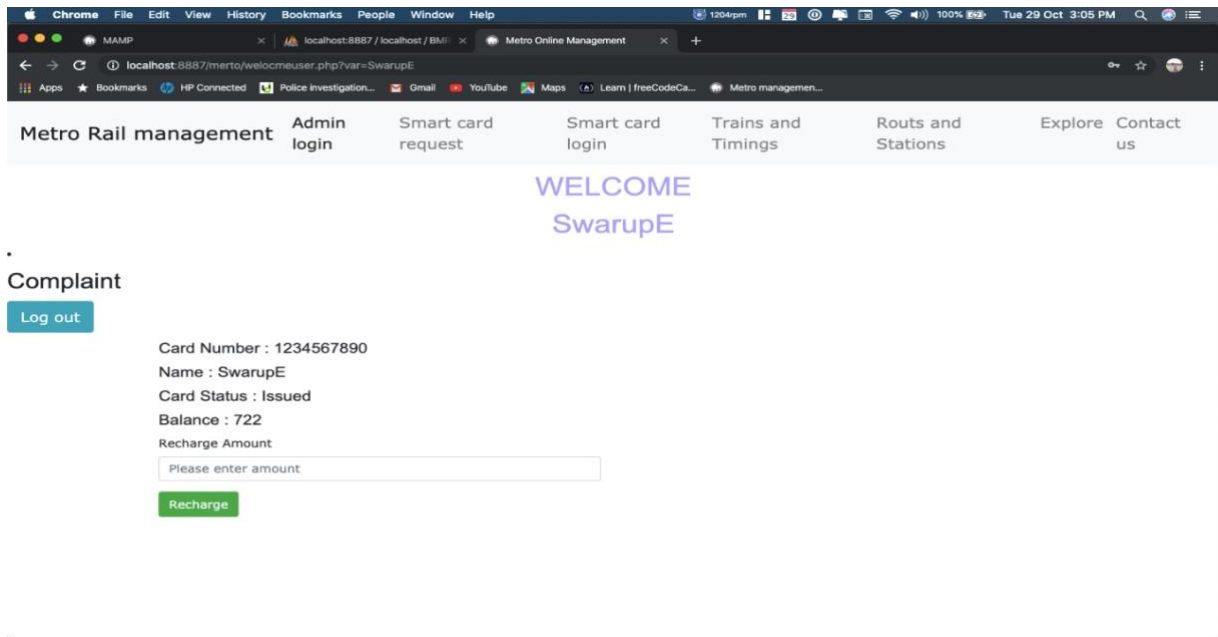
SMART CARD LOGIN:

Smart card Login Form

Username

Password

[Cancel](#)



TRAINS AND TIMINGS:

Chrome File Edit View History Bookmarks People Window Help 6494rpm 99% Mon 4 Nov 6:03 PM

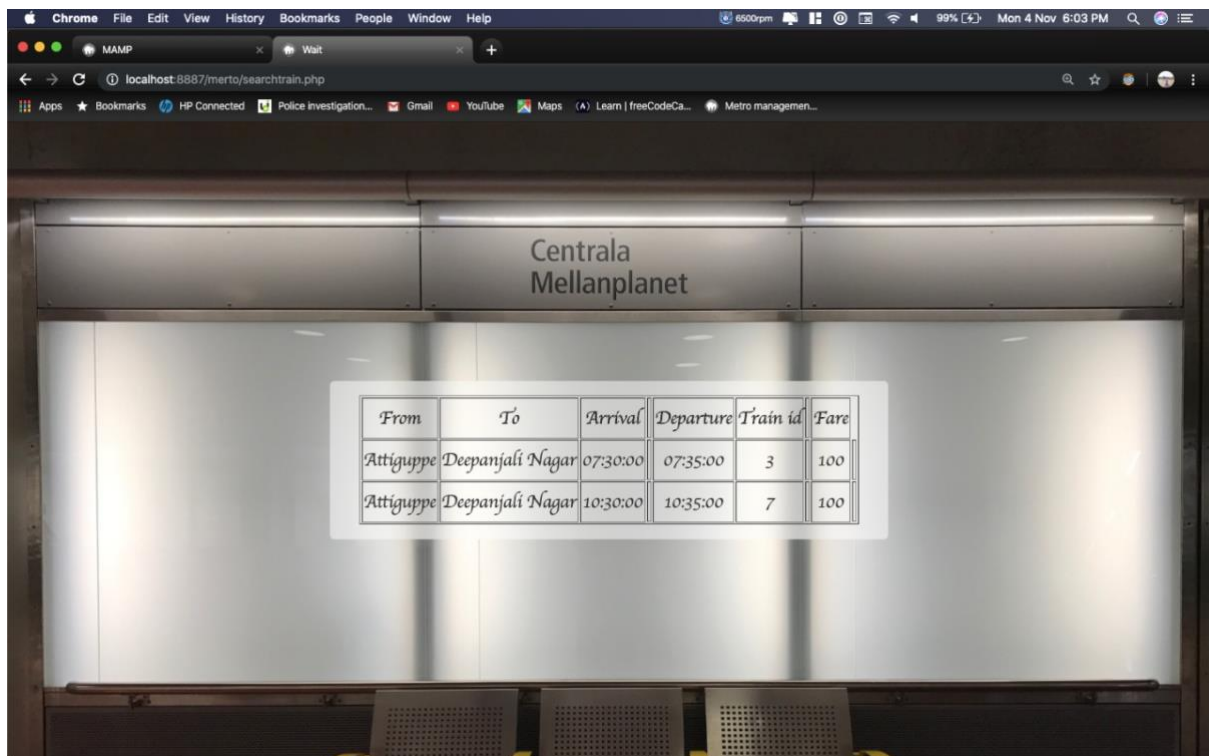
MAMP localhost:8887/merto/trainsandtimings.php

Search Trains

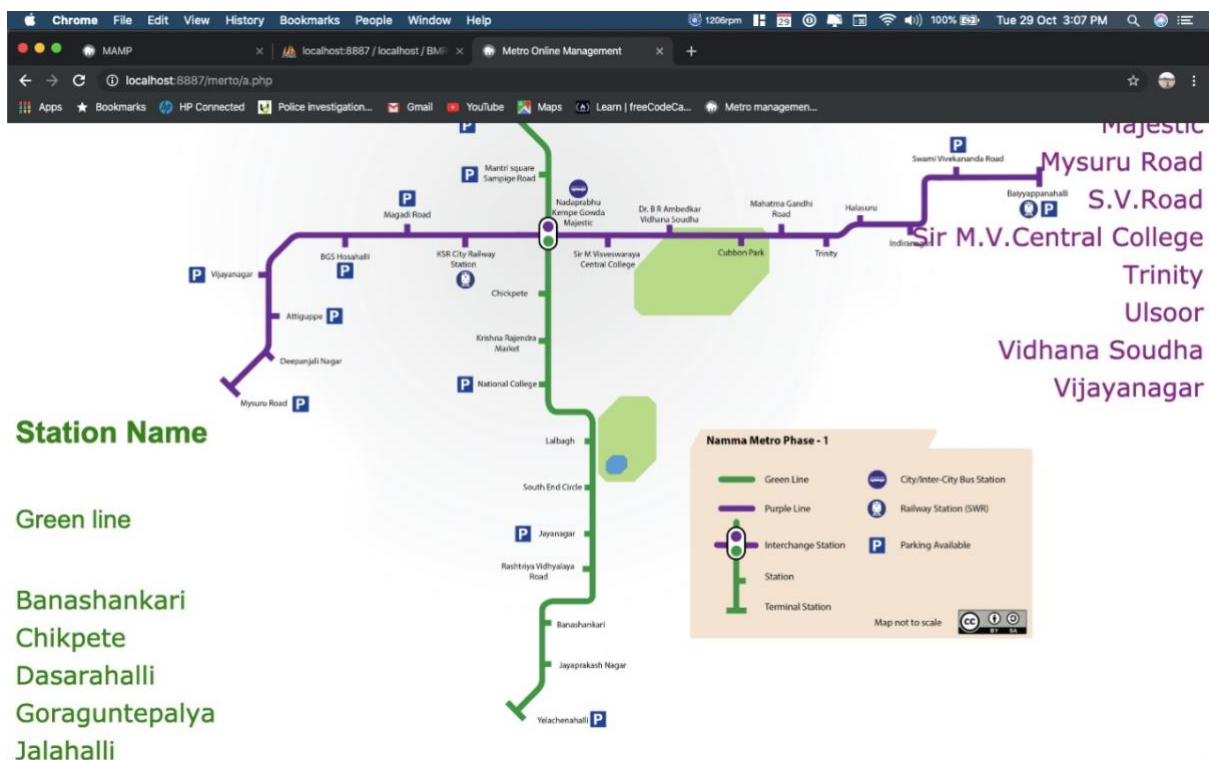
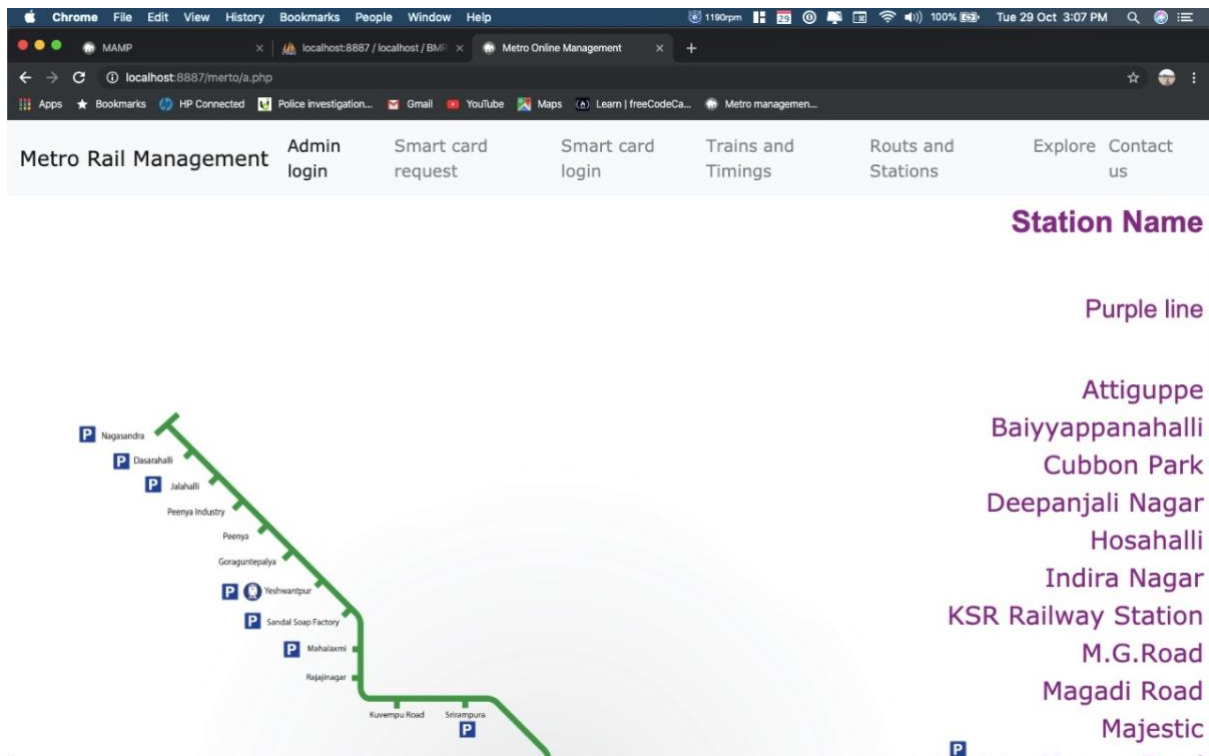
Starting Point Destination Search

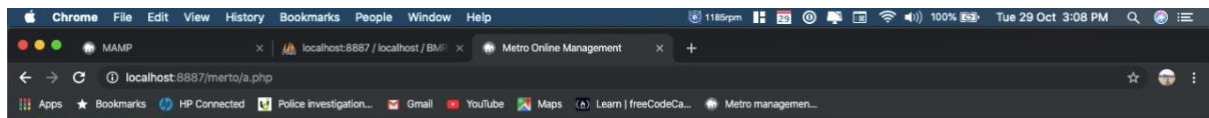
Search

From	To	Arrival	Departure	Train id	Fare
Attiguppe	Deepanjali Nagar	07:30:00	07:35:00	3	100
Attiguppe	Deepanjali Nagar	10:30:00	10:35:00	7	100
Attiguppe	Vijayanagar	05:10:00	05:15:00	4	200
Attiguppe	Vijayanagar	08:00:00	08:05:00	8	200
Baiyyappanahalli	S.V.Road	06:20:00	06:25:00	3	500
Baiyyappanahalli	S.V.Road	09:20:00	09:25:00	7	500
Banashankari	Jayaprakash Nagar	06:40:00	06:45:00	2	200
Banashankari	Jayaprakash Nagar	10:30:00	10:35:00	6	200
Banashankari	R.V.Road	07:00:00	07:05:00	1	400
Banashankari	R.V.Road	10:50:00	10:55:00	5	400
Chikpete	K.R.Market	06:05:00	06:10:00	2	100
Chikpete	K.R.Market	09:55:00	10:00:00	6	100
Chikpete	Majestic	07:35:00	07:40:00	1	300
Chikpete	Majestic	11:25:00	11:30:00	5	300
Cubbon Park	M.G.Road	05:50:00	05:55:00	4	500
Cubbon Park	M.G.Road	08:40:00	08:45:00	8	500
Cubbon Park	Vidhana Soudha	06:50:00	06:55:00	3	200



ROUTES AND STATIONS:





Nagasandra
National College
Peenya
Peenya Industry
R.V.Road
Rajajinagar
Sampige Road
Sandal Soap Factory
Shrirampura
South End Circle
Yelachenahalli
Yeshwantpur

Our Metro Phase 1 network consists of two corridors that include the East West and North-South corridors.

The eastwest corridor is named Purple Line (Purple Line)

The northernmost corridor is named Green Line (Green Line)

The two corridors will meet at Kempe Gowda Station and Kempe Gowda Station is a two-phase interchange station. The train needs to be replaced at Kempegowda Station from the one-stop station (as the Trinity in the purple route) to the other route to the station (take a pinna of green route). The traveler can purchase the same ticket for the entire journey

EXPLORE:

Namma Metro

From Wikipedia, the free encyclopedia

Namma Metro ("Our Metro" in Kannada), also known as **Bengaluru Metro** is a rapid transit system serving the city of Bengaluru, India.^[a] It is the fourth longest operational metro network in India after the Delhi Metro, Hyderabad Metro and Chennai Metro.^[a] It also contains the first underground metro line in South India.^[7] The metro network consists of two colour-coded lines, with a total length of 42.3 kilometres serving 40 stations. The system has a mix of underground, street level, and elevated stations using standard-gauge tracks. The metro has an average daily ridership of 400,000 passengers. By 2023, the system is expected to complete its phase 2 network and provide connectivity to the city's important tech hubs of Electronics City and Whitefield.

The Bangalore Metro Rail Corporation Ltd (BMRCL), a joint venture of Government of India and Government of Karnataka, built and operates the Namma Metro.^[8] Services operate daily between 05:00 and 23:00 running with a headway varying between 4–20 minutes.^[9] The trains are composed of three to six cars. The power output is supplied by 750 volt direct current through third rail. Namma Metro was the second rail transport system in India to use 750 V DC third rail traction, the first being the Kolkata Metro.

Contents [hide]	
1 Timeline	
1.1 Construction	
1.1.1 Underground construction	
1.2 Phase I	
1.2.1 Opening	
1.3 Phase II	
1.3.1 Phase 2A	
1.4 Phase III	
1.4.1 Airport rail link	
2 Current Network	
2.1 Namma Metro Lines	
2.1.1 Purple Line	
2.1.2 Green Line	
3 Finances	
3.1 Funding	

Overview

Owner	Bangalore Metro Rail Corporation Limited (BMRCL)
Locale	Bengaluru, Karnataka, India
Transit type	Rapid transit
Number of lines	2
Number of stations	40 ^[1]
Daily ridership	450,000 (2019) ^[2]
Annual ridership	131.7 million (2018) ^[2]

CONTACT:



CHAPTER 9

CONCLUSION

The project entitled **Metro Rail Management System** was completed successfully.

The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for metro rail management

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html &css, usage of responsive templates, designing of android applications, and management of database using mysql . The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications.

There is a scope for further development in our project to a great extend. A number of features can be added to the system in future like watch me module, each admin having separate permissions.

CHAPTER 10

REFERENCES

1. www.stackoverflow.com
2. www.youtube.com
3. www.w3schools.com
4. www.unsplash.com
5. www.csstricks.com