LAB REPORT

Submitted by

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Under the Guidance of

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In partial satisfaction of the requirements for the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE ENGINEERING

with specialization in CSE

SCHOOL OF COMPUTING

COLLEGE OF ENGINEERING AND TECHNOLOGY

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

KATTANKULATHUR - 603203

JUNE 2022

SRM INSTITUTION OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR-603203

BONAFIDE CERTIFICATE

Certified that this lab report titled **Tamilnadu tourism** is the bonafide work done by Deepannita Paul (RA2011003011190) who carried out the lab exercises under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other work.

SIGNATURE

Dr. B. Arthi

SEPM – Course Faculty

Associate Professor

Department of Computer Science and Engineering

ABSTRACT

This System is an innovative website allowing the user to pre plan a trip from anywhere & anytime. The website will list out various tourist spots in a specific city, user can choose the locations as per their interest. People found it difficult to explore the places due to lack of detailed information but with the help of this website they can do it easily.

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LIST OF ABBREVIATIONS

ER -Diagram Entity Relationship

CAPEX -Capital expenditures

WBS -Work Breakdown Structure

SWOT -Strength, Weakness,Opportunities, Threats

RMMM-Risk Mitigation, Monitoringand Management

DFD-Data flow diagram

LIST OF FIGURES

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Department of Networking and

Communications SRM IST, Kattankulathur –

603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	1
Title of Experiment	To identify the Software Project, Create Business Case, Arrive at a Problem Statement
Name of the candidate	ADARSH RAJ
Team Members	DEEPANNITA PAUL, PRIYANSHU SHARMA, THATIPARTHY JAVALI
Register Number	RA2011003011188, RA2011003011190, RA2011003011186, RA2011003011222
Date of Experiment	16/03/2022

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To Frame a project team, analyze and identify a Software project. To create a business case and Arrive at a Problem Statement for the <title of the project>

Team Members:

S. No	Register No	Name	Role
1	RA2011003011188	ADARSH RAJ	Lead/Rep
2	RA2011003011186	PRIYANSHU SHARMA	Member
3	RA2011003011190	DEEPANNITA PAUL	Member
4	RA2011003011222	THATIPARTHY JAVALI	Member

Project Title:

Project Description

This System is an innovative website allowing the user to pre plan a trip from anywhere & anytime. The website will list out various tourist spots in a specific city, user can

choose the locations as per their interest. People found it difficult to explore the places due to lack of detailed information but with the help of this website they can do it easily.

Result

Thus, the project team formed, the project is described, the business case was prepared and the problem statement was arrived.

ONE PAGE BUSINESS CASE TEMPLATE

DATE	16/03/2022
SUBMITTED BY	ADARSH RAJ
TITLE / ROLE	Team Leader

THE PROJECT
In bullet points, describe the problem this project aims to solve or the opportunity it aims to develop.

1. It will provide information on all the famous places to visit so that users don't miss the best spots.
2. It will help save time and energy to search tourist spots.
3. It will help in pre-planning a journey better.

THE HISTORY
In bullet points, describe the current situation.

1. The individual has to ask multiple people to find and reach the actual destination.
2. The tourists face a language barrier.
3. Ambiguous knowledge of the state's tourist spots may leave the good places unexplored.
4. Traveling without adequate information will lead to an exhausting and bad traveling experience.

LIMITATIONS
List what could prevent the success of the project, such as the need for expensive equipment, bad weather, lack of special training, etc.

1. It requires a large database and memory.
2. It will be difficult for specially abled people to use.
3. It will be impossible to cover all the tourist places.
4. We will have to verify every spot before listing it on the website.

APPROACH
List what is needed to complete the project.

1. We need a database to store the details of all the places.
2. For a better visual idea we need good photographs of the places.
3. We will have to survey the spots for detailed information.

BENEFITS
In bullet points, list the benefits that this project will bring to the organization.

1. Users will be able to locate various places in a new city he/she is traveling in.
2. Ease of access in finding best spots, hotels in the city.
3. Can be accessed from anywhere, anytime.
4. Very helpful tool in pre-planning a journey.
5. Language Barriers will be reduced to an extent for the user.

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603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	2
Title of Experiment	Identification of Process Methodology and Stakeholder Description
Name of the candidate	Adarsh Raj
Team Members	Deepannita Paul, Thataparthy Javali, Priyanshu Sharma
Register Number	RA2011003011186, RA2011003011188, RA2011003011190, RA2011003011222
Date of Experiment	23/03/2022

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To identify the appropriate Process Model for the project and prepare Stakeholder and User Description.

Team Members:

Sl No	Register No	Name	Role
1	RA2011003011188	**Adrash Raj**	**Rep/Member**
2	RA2011003011186	**Priyanshu Sharma**	**Member**
3	RA2011003011190	**Deepannita Paul**	**Member**
4	RA2011003011222	**Thatiparthy Javali**	**Member**

Project Title:

Selection of Methodology

Agile development methodology:

- This methodology best suits our project because in our project we focus to minimize the risk such as bugs, cost overruns, and changing requirements.
- Also, it involves constant collaboration with stakeholders and continuous improvement at every stage.
- It enables teams to deliver value faster, with greater quality and greater aptitude to respond to change.

Incorporate information to below table regarding stakeholders of the project [Make use of below examples]

Stakeholder Name	Activity/ Area /Phase	Interest	Influence	Priority (High/ Medium/ Low)
Team leader	Responsible for planning, executing and promoting the activities that a	High	High	1

	project undertakes.			
Member	Play a defining role in the strategy, tactics, and operations the team carries out.	High	High	1
Supervisor	Supervise and verifies the progress of the project.	High	Mid	2
Tamilnadu govt	Provides the necessary funding and resources.	Mid	High	3
Local tourist guide	Provides information and pictures of the place.	Mid	Mid	2
User	Provide feedback.	Low	Mid	4

Result

Thus the Project Methodology was identified and the stakeholders were described.

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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	**3**
Title of Experiment	System, Functional and Non-Functional Requirements of the Project
Name of the candidate	Adarsh Raj
Team Members	Deepannita Paul, Thataparthy Javali, Priyanshu Sharma
Register Number	RA2011003011186, RA2011003011188, RA2011003011190, RA2011003011222
Date of Experiment	01-04-2022

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Aim

To identify the system, functional and non-functional requirements for the project.

Staff Signature with date

Team Members:

S No	Register No	Name	Role
1	RA2011003011188	**Adrash Raj**	**Rep/Member**
2	RA2011003011186	**Priyanshu Sharma**	**Member**
3	RA2011003011190	**Deepannita Paul**	**Member**
4	RA2011003011222	**Thatiparthy Javali**	**Member**

Project Title :- Tamilnadu Tourism Website

System Requirements :-

Hardware Requirements :-

Component	Minimum	Recommended
Processor	1.9 gigahertz (GHz) x86- or x64-bit dual core processor with SSE2 instruction set	3.3 gigahertz (GHz) or faster 64-bit dual core processor with SSE2 instruction set
Memory	2-GB RAM	4-GB RAM or more
Display	Super VGA with a resolution of 1024 x 768	Super VGA with a resolution of 1024 x 768

Network Requirements :-

- Bandwidth greater than 50KBps (400 KBps)
- Latency under 150 ms

Software Requirements :-

Supported Web Browsers :

- Microsoft Edge (latest publicly-released version) running on Windows 11, Windows 10, Windows 8.1
- Mozilla Firefox (latest publicly-released version) running on Windows 11, Windows 10, Windows 8.1
- Google Chrome

  -Google Chrome (latest publicly-released version) running on Windows 11, Windows 10, Windows 8.1

  -Google Chrome (latest publicly-released version) running on the two latest publicly-release Mac OS versions
- Apple Safari (latest publicly-released version) running on the two latest publicly-release Mac OS versions

Functional Requirements :-

- Authentication of a user when he/she tries to log into the system.
- Verification email is sent to the user whenever he/she registers for the first time on some software system.
- System shutdown in the case of a cyber attack.

Non-Functional Requirements :-

- Each request should be processed within 10 seconds.
- The site should load in 3 seconds when the number of simultaneous users is >10000.
- Emails should be sent with a latency of no greater than 12 hours.

Result

Thus the requirements were identified and accordingly described.

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603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	4
Title of Experiment	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities
Name of the candidate	Adarsh Raj
Team Members	Deepannita Paul,Thatiparthy Javali,Priyanshu Sharma
Register Number	RA2011003011186, RA2011003011188, RA2011003011190, RA2011003011222
Date of Experiment	11-04-2022

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To Prepare Project Plan based on scope, Calculate Project effort based on resources, Find Job roles and responsibilities

Team Members:

Sl No	Register No	Name	Role
1	RA2011003011188	Adrash Raj	Lead
2	RA2011003011186	Priyanshu Sharma	Member
3	RA2011003011190	Deepannita Paul	Member
4	RA2011003011222	Thatiparthy Javali	Member

Requirements

<Incorporate the Project plan template>

Result:

Thus, the Project Plan was documented successfully.

1. Project Management Plan

Describe the key issues driving the project. **[Min 3 Focus Areas]**

Focus Area	Details
Integration Management	Governance Framework Project Team Structure Roles & Responsibilities of Team Change Management (Change Control, Issue Management) Project Closure
Scope Management	Scope Statement Requirement Management (Gathering, Control, Assumption, Constraint Stakeholder) Define Deliverable Requirement Change Control Activities and Sub-Tasks
Cost Management	Estimate Effort Assign Team Budget Control
Quality Management	Quality Assurance: Quality assurance will be managed including governance, roles and responsibilities, tools and techniques and reporting Quality Control: Specify the mechanisms to be used to measure and control the quality of the work products
Resource Management	Estimate and Manage the need People: People & Skills Required Finance: Budget Required Physical: Facilities, IT Infrastructure
Stakeholder	Identifying, Analyzing, Engaging Stakeholders

2. Estimation

2.1. Effort and Cost Estimation

Activity Description	Sub-Task	Sub-Task Description	Effort (in hours)	Cost in INR
Login	Sign up	User will enter his email id and password.	3	3000
	Verification	A mail will be send to the registered email for verification.		
	Sign in	Now user login into the website.		
Search Box		Also user can search for the place he wants to visit.	5	5000
		All the information related to that place will be displayed on the website along with some photographs.		

Effort (hr)	Cost (INR)
1	500

2.2. Infrastructure/Resource Cost [CapEx]

Infrastructure Requirement	Qty	Cost per qty	Cost per item
Data Base	10	1,50,000	15,00,000

2.3 Maintenance and Support Cost [OpEx]

Category	Details	Qty	Cost per qty per annum	Cost per item
People	Network, System, Middleware and DB admin Developer, Support Consultant	3	2,000,000	6,000,000
License	Operating System Database Middleware IDE	10	10000	100,000
Infrastructures	Server, Storage and Network	20	20000	400,000

3. Project Team Formation

3.1. Identification Team members

Name	Role	Responsibilities

Adarsh Raj	Key Business User (Product Owner)	Provide clear business and user requirements

Priyanshu Sharma	Project Manager	Manage the project
Deepannita Paul	Business Analyst	Discuss and Document Requirements
Priyanshu Sharma	Technical Lead	Design the end-to-end architecture
Adarsh Raj	UX Designer	Design the user experience
Javali Thatiparthy	Frontend Developer	Develop user interface
Javali Thatiparthy	Backend Developer	Design, Develop and Unit Test Services/API/DB
Deepannita Paul	Tester	Define Test Cases and Perform Testing

3.2. Responsibility Assignment Matrix

RACI Matrix	**Team Members**			
Activity	**Name (BA)**	**Name (Developer)**	**Name (Project Manager)**	**Key Business User**
User Requirement Documentation	Deepannita Paul(A)	Javali Thatiparthy(C)	Priyanshu Sharma(I)	Adarsh Raj(R)

A	Accountable
R	Responsible
C	Consult
I	Inform

Reference

1. https://www.pmi.org/
2. https://www.projectmanagement.com/
3. https://www.tpsgc-pwgsc.gc.ca/biens-property/sngp-npms/ti-it/ervcpgpm-dsfvpmpt-eng.ht ml

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School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	5
Title of Experiment	Prepare Work breakdown structure, Timeline chart, Risk identification table
Name of the candidate	Esha Mishra
Team Members	Jahnavi Singh,Rushali Singh ,Esha Mishra
Register Number	RA2011003011245,RA2011003011228,RA2011003011250
Date of Experiment	22-04-22

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To Prepare Work breakdown structure, Timeline chart and Risk identification table

Team Members:

Sl No	Register No	Name	Role
1	RA2011003011250	**Esha Mishra**	**Rep**
2	RA2011003011245	**Rushali Singh**	**Member**
3	RA2011003011228	**Jahnavi Singh**	**Member**

WORK BREAKDOWN STRUCTURE:

0.0 Retail Web Site

1.0 Project Management

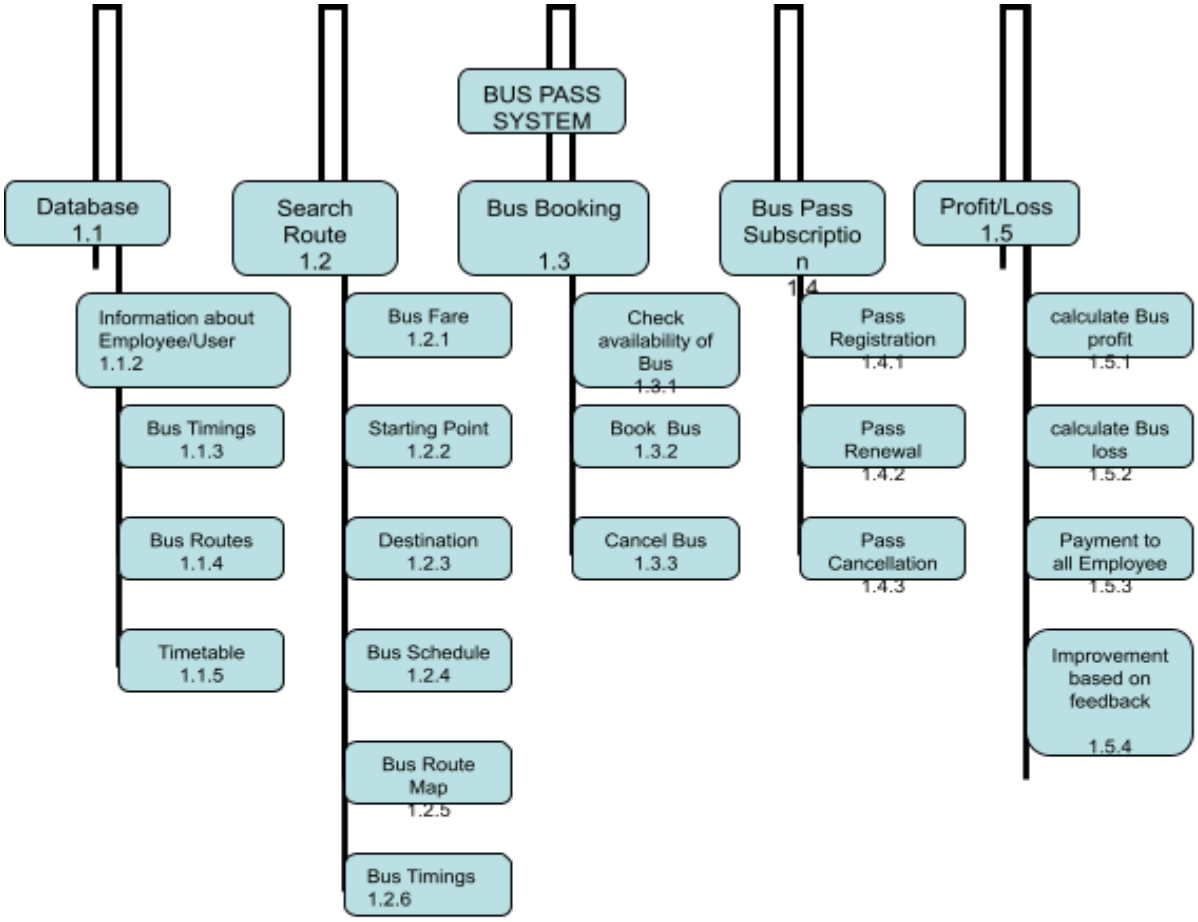
2.0 Requirements Gathering

3.0 Analysis & Design

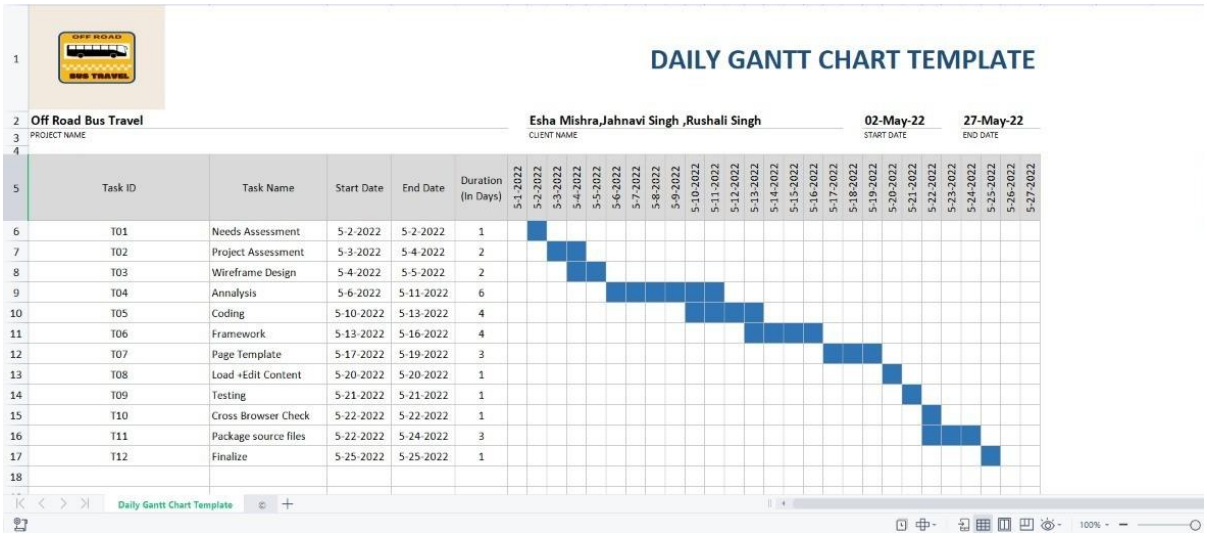
4.0 Site Software Development

- 4.1 HTML Design and Creation
- 4.2 Backend Software
  - 4.2.1 Database Implementation
  - 4.2.2 Middleware Development
  - 4.2.3 Security Subsystems
  - 4.2.4 Catalog Engine
  - 4.2.5 Transaction Processing
- 4.3 Graphics and Interface
- 4.4 Content Creation

5.0 Testing and Production



TIMELINE – GANTT CHART



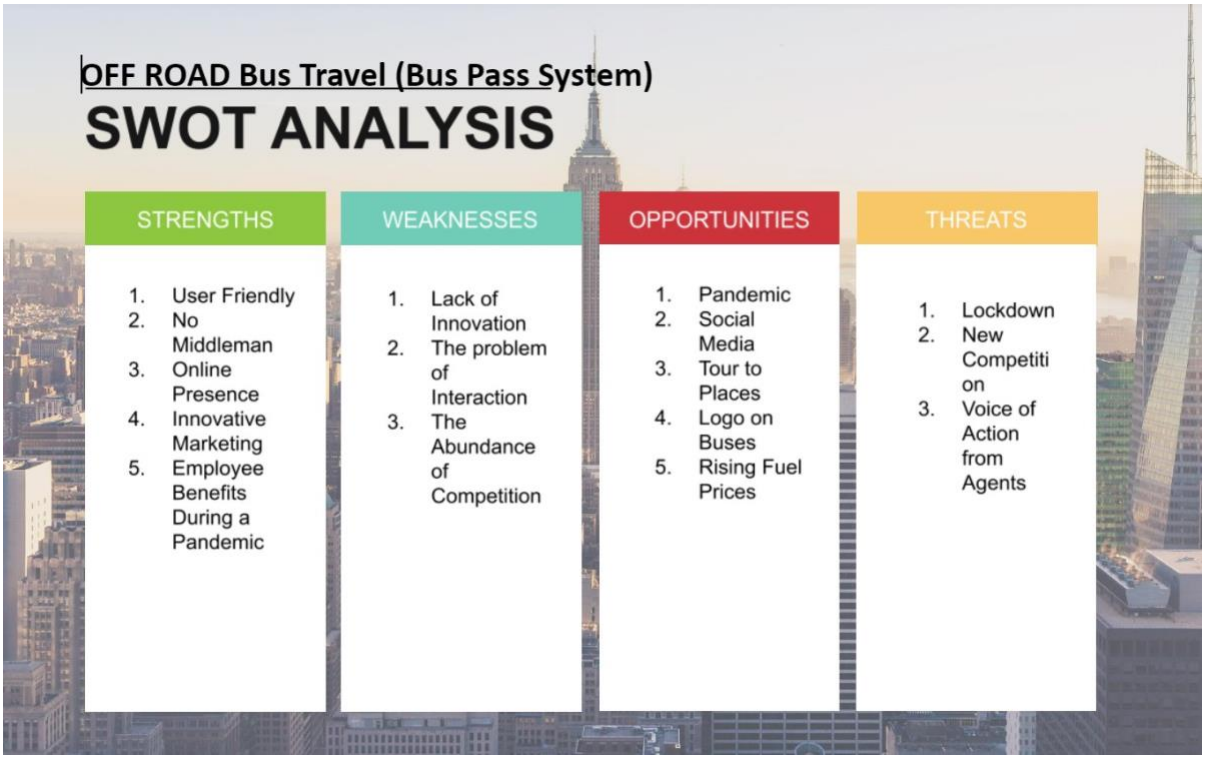
DAILY GANTT CHART TEMPLATE

Off Road Bus Travel (PROJECT NAME) | Esha Mishra,Jahnavi Singh ,Rushali Singh (CLIENT NAME) | 02-May-22 (START DATE) | 27-May-22 (END DATE)

Task ID	Task Name	Start Date	End Date	Duration (In Days)
T01	Needs Assessment	5-2-2022	5-2-2022	1
T02	Project Assessment	5-3-2022	5-4-2022	2
T03	Wireframe Design	5-4-2022	5-5-2022	2
T04	Annalysis	5-6-2022	5-11-2022	6
T05	Coding	5-10-2022	5-13-2022	4
T06	Framework	5-13-2022	5-16-2022	4
T07	Page Template	5-17-2022	5-19-2022	3
T08	Load +Edit Content	5-20-2022	5-20-2022	1
T09	Testing	5-21-2022	5-21-2022	1
T10	Cross Browser Check	5-22-2022	5-22-2022	1
T11	Package source files	5-22-2022	5-24-2022	3
T12	Finalize	5-25-2022	5-25-2022	1

Daily Gantt Chart Template

RISK ANALYSIS – SWOT & RMMM



RISK MANAGEMENT TABLE:

RISK IDENTIFICATION TABLE FOR BUS RESERVATION SYSTEM		
Category	**Risk**	**Description**
Technical	Inadequacy of the technical personnel	Absence of qualified people (person who has the experience and knowledge about the technology
Technical	Unavailability of Internet network for booking	Some local areas have poor connectivity which leads to difficulty in online booking
Political/Social	Government regulations	Legal and bureaucratic obstructions
Political/Social	Natural economic crisis	Economic crises and exchange rate fluctuations
Political/Social	Natual hazards	Earthquakes,flood etc
Market/Customer	Uncertainity in customer reports	Frequent change requests by customer
Market/Customer	Uncertainity in the commmunication with the customer	No previous experience of working together with the customer.
		Customer violating the writteen and oral agreements/understandings.
Market/Customer	Innovation by competitor	New technologies developed by the competirors
Market/Customer	Price	Probability that the actual unit price will turn out to be less than the forecast price
Project Team	Inadequate project experience	Inexperienced project head
		Lack of teamwork experience in the project team
Project Team	Poor communication	Inadequacy of communication with upper management
		Inadequacy of communication within the project team
Resource Management	Inadequate resources	Inadequacy of labour units for the project because of overloading
		Reduction in the project team size
Resource Management	Cost estimate/completion risk	Probability that the funds allocated to the project will be insufficient to complete the project.
Project Management	Change in strategy/project priorities	Changing objectives/expectations
Project Management	Little risk awareness	Omitting the project risks

Result:

Thus, the work breakdown structure with timeline chart and risk table were formulated successfully.

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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	6
Title of Experiment	Design a System Architecture, Use Case and Class Diagram
Name of the candidate	ADARSH RAJ
Team Members	THATIPARTHY JAVALI,DEEPANNITA PAUL,PRIYANSHU SHARMA
Register Number	RA2011003011188,RA2011003011222,RA2011003011190,RA2011003011186
Date of Experiment	12/05/2022

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	

Total	**10**	

Staff Signature with date

Aim

To Design a System Architecture, Use case and Class Diagram

Team Members:

Sl No	Register No	Name	Role
1	RA2011003011188	ADARSH RAJ	Rep
2	RA2011003011222	THATIPARTHY JAVALI	Member
3	RA2011003011190	DEEPANNITA PAUL	Member
4	RA2011003011186	PRIYANSHU SHARMA	Member

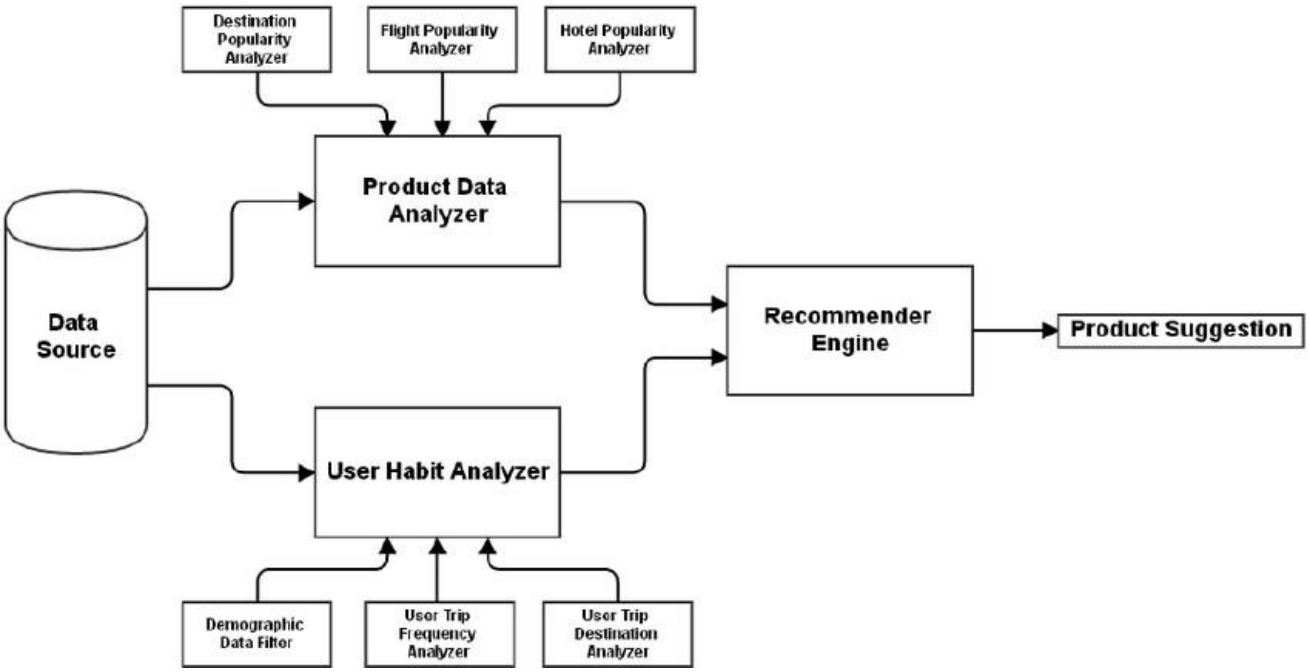
Requirements

<System Architecture, Use Case and Class Diagram>

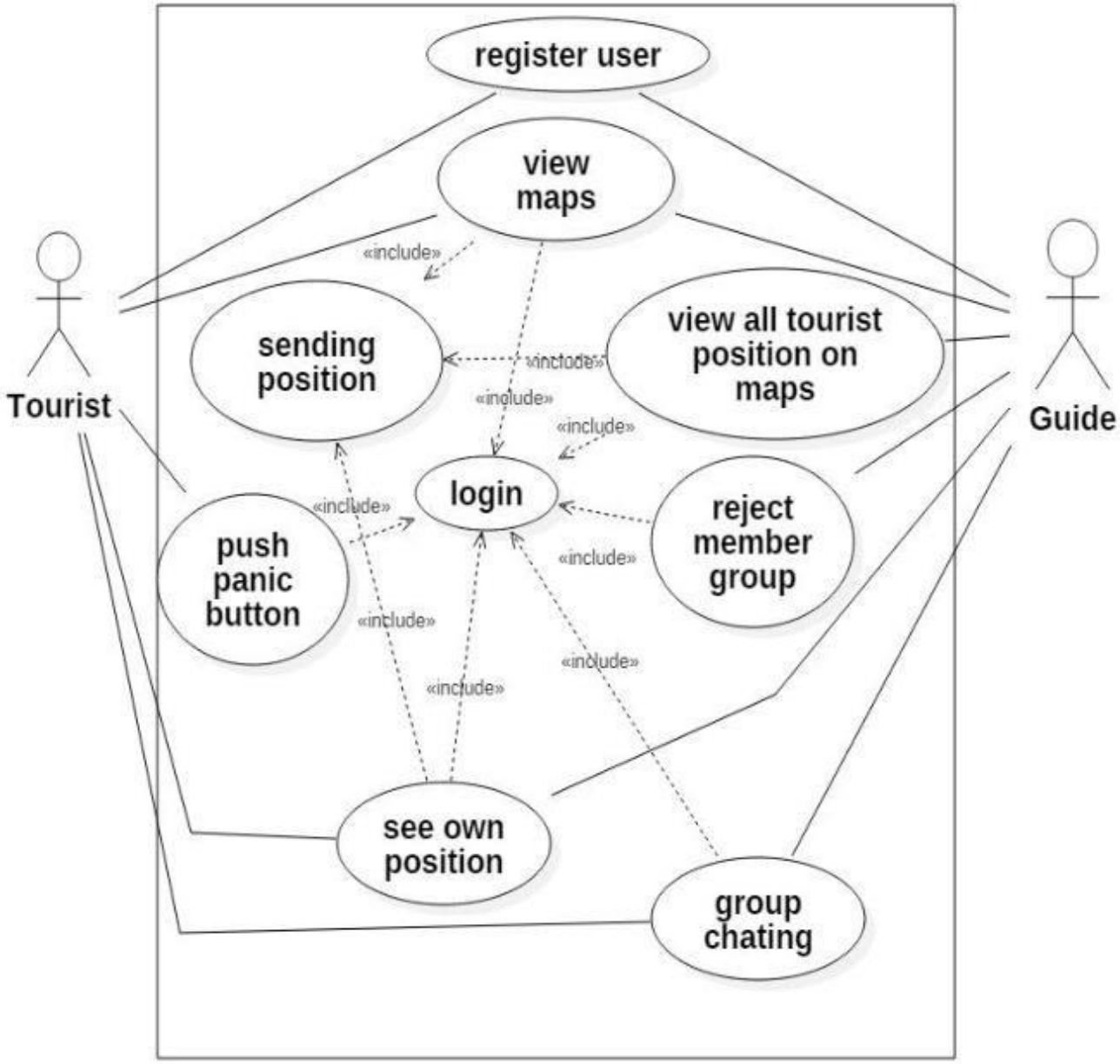
Result:

Thus, the system architecture, use case and class diagram created successfully.

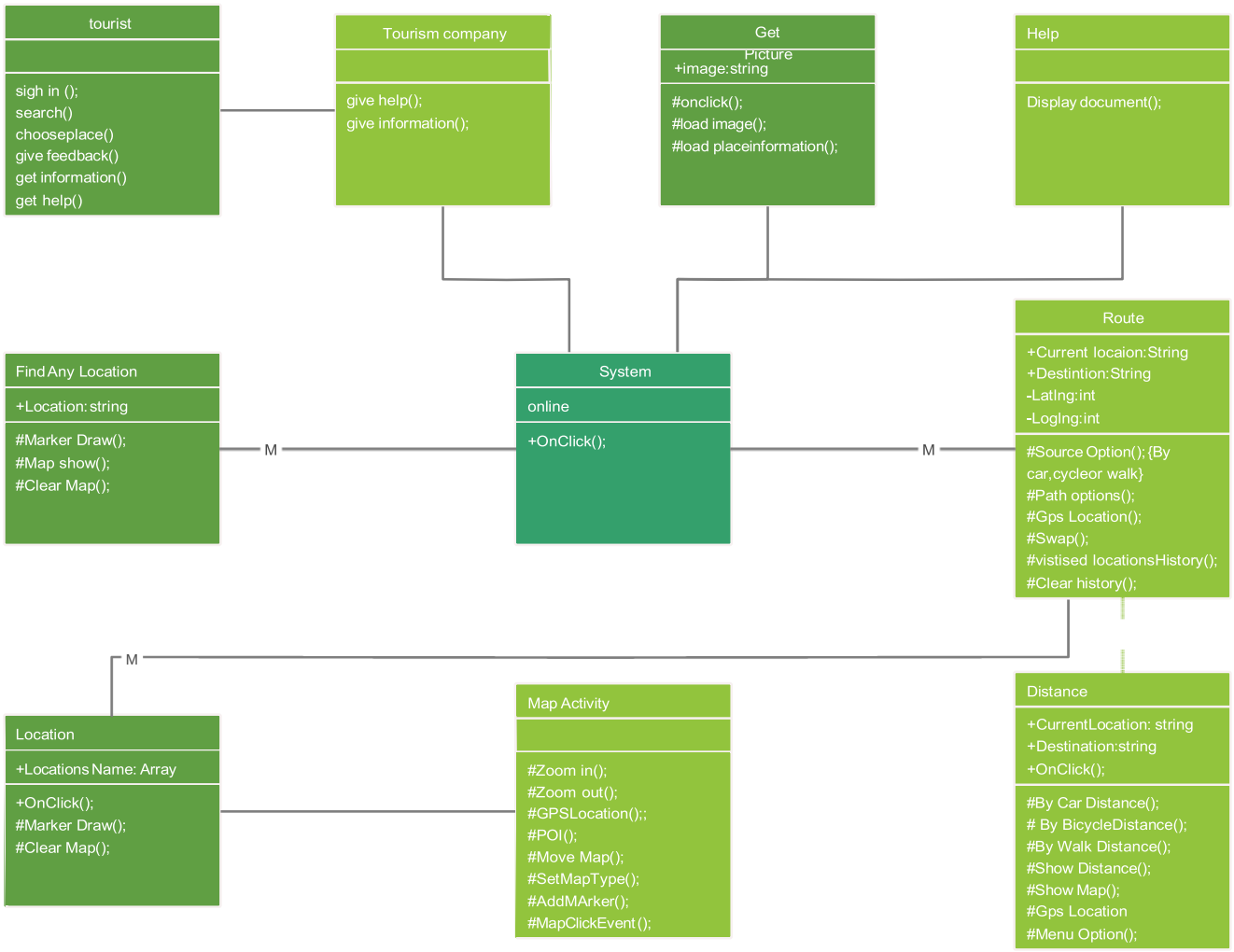
SYSTEM ARCHITECTURE –



USE CASE DIAGRAM –



CLASS DIAGRAM –



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Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	7
Title of Experiment	Design a Entity relationship diagram
Name of the candidate	Esha Mishra
Team Members	Rushali Singh,Jahnavi Singh
Register Number	RA2011003011250,RA2011003011245,RA2011003011228
Date of Experiment	09/05/22

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

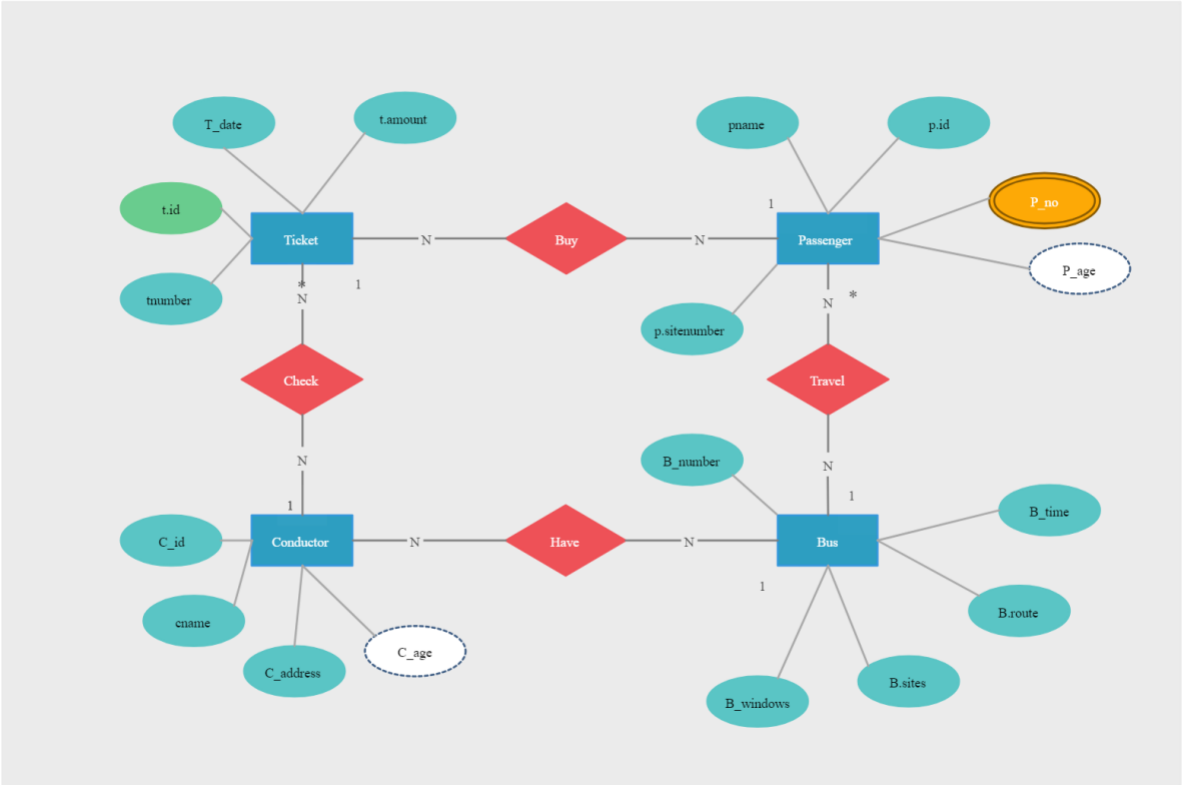
Aim

To create the Entity Relationship Diagram

Team Members:

S No	Register No	Name	Role
1	RA2011003011250	**Esha Mishra**	**Rep**
2	RA2011003011250	**Rushali Singh**	**Member**
3	RA2011003011250	**Jahnavi Singh**	**Member**

ENTITY RELATIONSHIP DIAGRAM:



Result:

Thus, the entity relationship diagram was created successfully.

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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	8
Title of Experiment	Develop a Data Flow Diagram (Process-Up to Level 1)
Name of the candidate	ADARSH RAJ
Team Members	DEEPANNITA PAUL, PRIYANSHU SHARMA, THATIPARTHY JAVALI
Register Number	RA2011003011188, RA2011003011190, RA2011003011186, RA2011003011222
Date of Experiment	19/05/2022

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

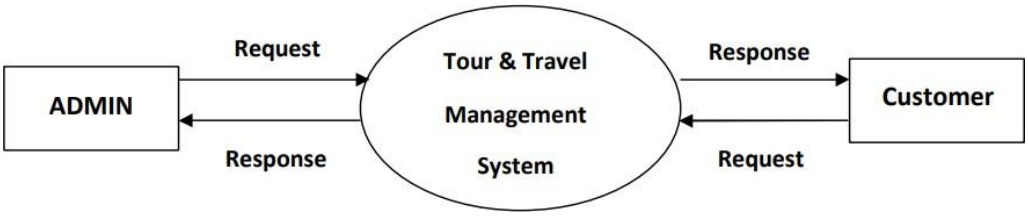
Aim:

To develop the data flow diagram up to level 1 for the <project name>

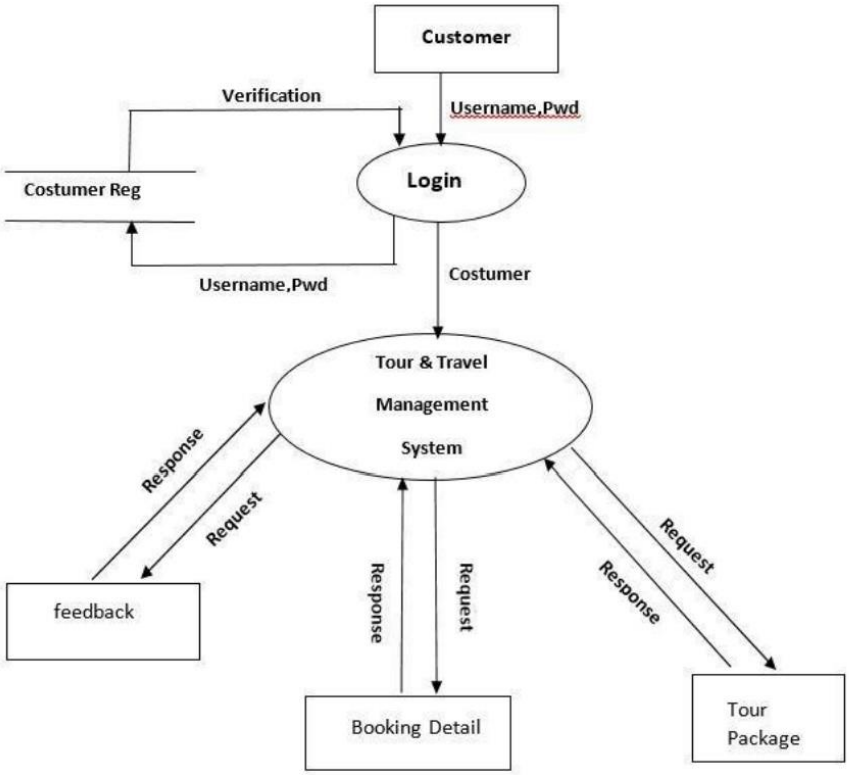
Team Members:

S No	Register No	Name	Role
1	RA2011003011188	**Adarsh Raj**	**Rep**
2	RA2011003011190	**Deepannita Paul**	**Member**
3	RA2011003011186	**Priyanshu Sharma**	**Member**
4	RA2011003011222	**Thatiparthy Javali**	**Member**

DFD LEVEL 0



DFD LEVEL 1



Result:

Thus, the data flow diagrams have been created for the Tamilnadu Tourism.

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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	9
Title of Experiment	Design a Sequence and Collaboration Diagram
Name of the candidate	ADARSH RAJ
Team Members	THATIPARTHY JAVALI,DEEPANNITA PAUL,PRIYANSHU SHARMA
Register Number	RA2011003011188,RA2011003011222,RA2011003011190, RA2011003011186
Date of Experiment	1 JUNE 2022

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

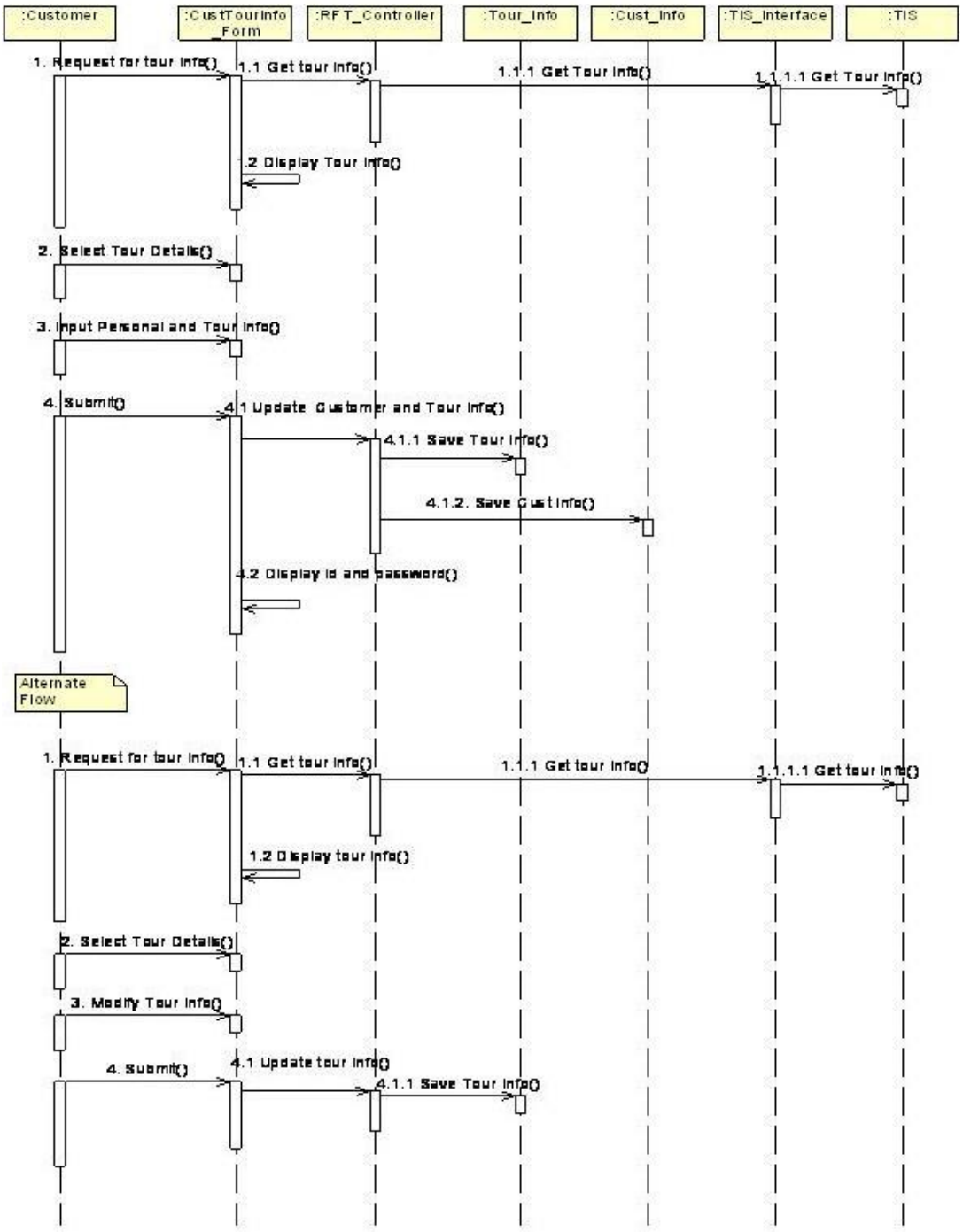
Aim

To create the sequence and collaboration diagram for the TAMIL NADU TOURISM

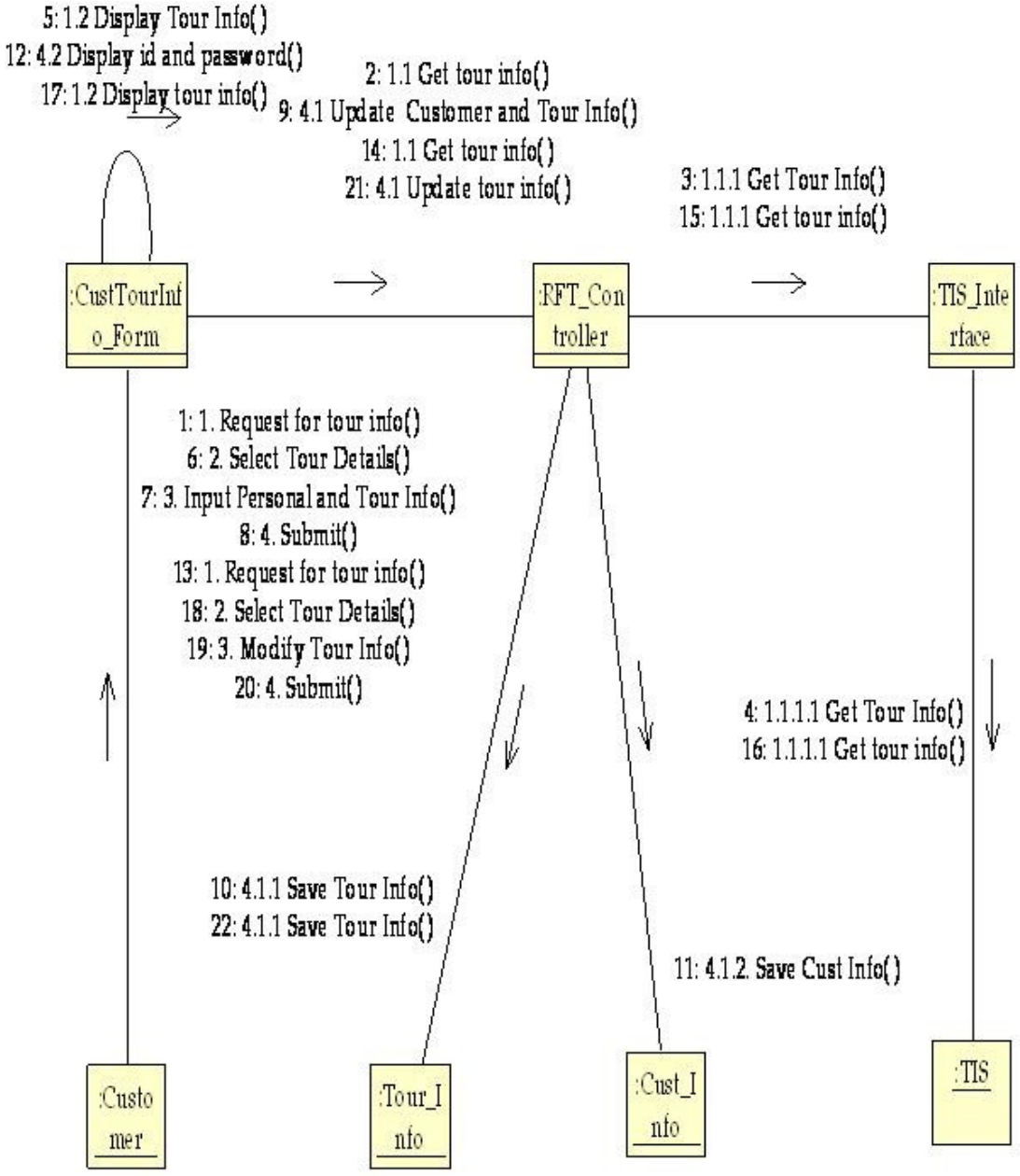
Team Members:

S No	Register No	Name	Role
1	RA2011003011188	ADARSH RAJ	Rep/Member
2	RA2011003011222	THATIPARTHY JAVALI	Member
3	RA2011003011190	DEEPANNITA PAUL	Member
4	RA2011003011186	PRIYANSHU SHARMA	Member

Sequence Diagram



Collaboration Diagram



Result:

Thus, the sequence and collaboration diagrams were created for the TAMILNADU TOURISM

School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	10
Title of Experiment	Develop a Testing Framework/User Interface
Name of the candidate	ADARSH RAJ
Team Members	THATIPARTHY JAVALI,DEEPANNITA PAUL,PRIYANSHU SHARMA
Register Number	RA2011003011188,RA2011003011222,RA2011003011190,RA2011003011186
Date of Experiment	6/06/2022

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To develop the testing framework and/or user interface framework for the TAMIL NADU TOURISM.

Team Members:

S No	Register No	Name	Role
1	ADARSH RAJ	RA2011003011188	Rep/Member
2	THATIPARTHY JAVALI	RA2011003011222	Member
3	DEEPANNITA PAUL	RA2011003011190	Member
4	PRIYANSHU SHARMA	RA2011003011186	Member

Functional Requirements:

- A Desktop Application
- System will provide "Operator Login" functionality
- System should generate a unique identification No. for each passengerthat is to differentiate between passengers with similar bio-data.
- System should generate daily report of no of viewers.
- Viewer will search the state and district he wants to visit in the search box provided in the website.
- Operator will be able to :

1. see the available tourism spots for the passengers.
2. see the bus route/train route/ship route for the passengers. 3.see the pictures of the places that they are going to visit.

NON-FUNCTIONAL REQUIREMENTS:

- Response Time of Searching should be less because it's a real-time application and its

response time depends upon performance and space. So, in short, the system should be efficient.

TEST ITEMS:

This section of the test plan lists all the items of the Railway TAMIL NADU TOURISM WEBSITE project that will be tested:

- User Registration/Login
- Search and show the tourism spots
- Search and show the route map
- Search and show the transport availability

TYPES OF TESTING:

UNIT TESTING

Unit Testing is a test that tests each single module of the software to check for errors.

This is mainly done to discover errors in the code of the TAMILNADU TOURISM WEBSITE.

The main goal of the unit testing would be to isolate each part of the program and to check the correctness of the code. In the case of the TAMILNADU TOURISM WEBSITE, all the web forms and the C# classes will be tested.

There are many benefits for this unit testing:

- The unit testing facilitates change in the code.
- It allows testing to be done in a bottom up fashion.

INTEGRATION TESTING

In Integration Testing, the individual software modules are combined and tested as a whole unit.

The integration testing generally follows unit testing where each module is tested as a separate unit.

The main purpose of the integration testing is to test the functional and performance requirements on the major items of the project. All the modules of the project developed individually would be

combined together and tested as a whole system in the integration testing.

SYSTEM TESTING

The system testing is mainly done on the whole integrated system to make surethat the project that has been developed meets all the requirements. The testcases for the system testing will be the combination of unit and integration tests.

USER ACCEPTANCE TESTING

This testing is generally performed when the project is nearing its end. This testmainly qualifies the project and decides if it will be accepted by the users of thesystem. The users or the customers of the project are responsible for the test

Types of Testing, Methodology, Tools

Category	Methodology	Tools Required
Functional Requirements	Manual	Word Template
Requirements	Utilize usecase	Star uml
Design	Diagnostic research design.	Affinity Designer
Implemention	Direct cutover	Lower case tools
Verification	PSL Assertions	Mapping
maintance	breadth test and depth test	Bugzilla

Result:

Thus, the testing framework/user interface framework has been created for the

TAMILNADU TOURISM.

School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	11
Title of Experiment	Test Cases
Name of the candidate	ADARSH RAJ
Team Members	Priyanshu Sharma, Deepannita Paul, Thatiparthy Javali
Register Number	RA2011003011188, RA2011003011186, RA2011003011190, RA2011003011222
Date of Experiment	13th June,2022

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim: To develop the test cases manual for the **Tamilnadu Tourism.**

Team Members:

S No	Register No	Name	Role
1	RA2011003011188	Adarsh Raj	**Rep/Member**
2	RA2011003011186	Priyanshu Sharma	**Member**
3	RA2011003011190	Deepannita Paul	**Member**
4	RA2011003011222	Thatiparthy Javali	**Member**

Functional Test Case:

Test Id	Test Scenario	Test Case	Execution Steps	Expected Output	Status	Remarks
101	Verify User Login	Accept valid Username and Password	• User click on User Login Button • Ener the usernam e and password	User should be taken to the main page of the website	• Pass • Fail	Successfully logged in Wrong Credentials

Non-Functional Test Case:

Test Id	Test Scenario	Test Case	Execution Steps	Expected Output	Status	Remarks
102	Verify there is a minimum of two users should be available for the chat	• Two users availabl e • Only one user availabl e	• Both user's chat • User ask the doubt	User get the reply	• Pass	Doubt solved

Result: Thus, the test case manual has been created for the**TAMILNADU TOURISM.**

School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	12
Title of Experiment	Manual Test Case Reporting
Name of the candidate	ADARSH RAJ
Team Members	DEEPANNITA PAUL, PRIYANSHU SHARMA, THATIPARTHY JAVALI
Register Number	RA2011003011188, RA2011003011190, RA2011003011186, RA2011003011222
Date of Experiment	20/06/2022

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

To prepare the manual test case report for the Tamilnadu Tourism.

Team Members:

S No	Register No	Name	Role
1	RA2011003011188	Adarsh Raj	Rep
2	RA2011003011190	Deepannita Paul	Member
3	RA2011003011186	Priyanshu Sharma	Member
4	RA2011003011222	Thatiparthy Javali	Member

Current State of Testing: After the development, serve of tests were conducted on the performance of the application. The test conducted were both functional and nonfunctional.

Functional tests include testing of login section, notification section, search bar and code file

Non-Functional requirements like performance testing, speed resting were also conducted.

Present Obstacles: Current Obstacles include:

• Increasing the synchronization of messages.

• Increasing the speed at which the code is formatted.

Category	Progress Against Plan	Status
Functional Testing	Green / Amber / Red	Not-Started / In-Progress / Completed
Sign up	Green	Completed
Login	Green	Completed
Search	Green	Completed

Non-Functional Testing		
Performance	Green	Completed
Speed	Green	Completed

Functional	**Test Case Coverage (%)**	**Status**
Module ID	30%	Not-Started / In-Progress / Completed
Module 1 (sign up)	100%	Completed
Module 2 (login)	100%	Completed
Module 3 (search)	80%	In-Progress

Result:

Thus, the test case report has been created for the Tamilnadu Tourism.

SRM INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	13
Title of Experiment	Provide the details of Architecture Design/Framework/Implementation
Name of the candidate	ADARSH RAJ
Team Members	DEEPANNITA PAUL, PRIYANSHU SHARMA, THATIPARTHY JAVALI
Register Numbers	RA2011003011188, RA2011003011190, RA2011003011186, RA2011003011222
Date of Experiment	20/6/2022

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

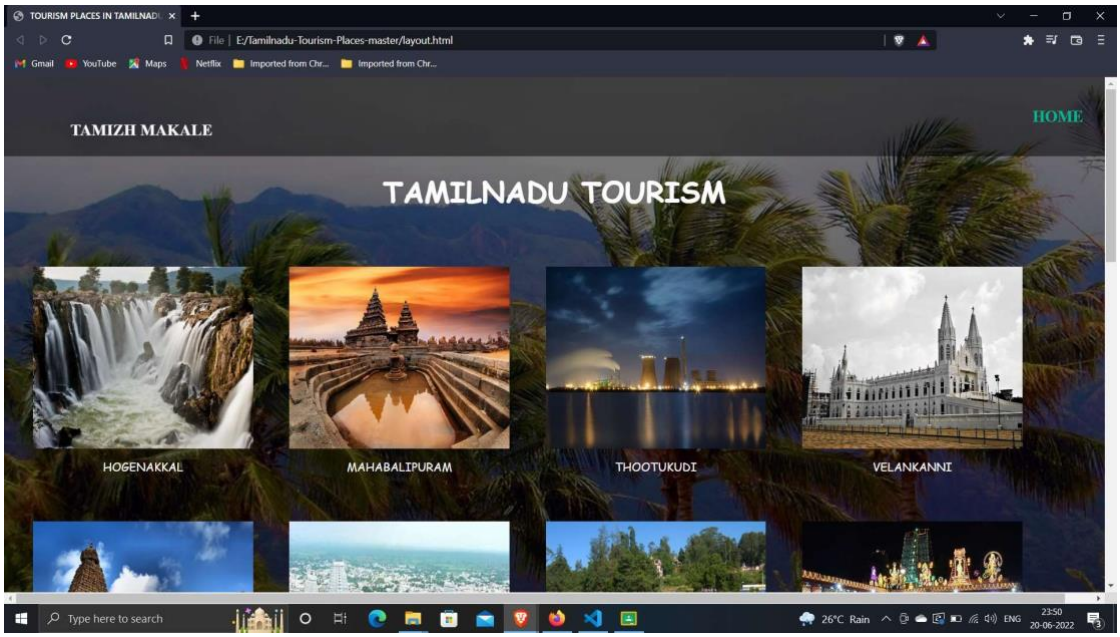
Aim

To provide the details of architectural design/framework/implementation

Team Members:

S No	Register No	Name	Role
1	ADARSH RAJ	RA2011003011188	Rep/Member
2	PRIYANSHU SHARMA	RA2011003011186	Member
3	DEEPANNITA PAUL	RA2011003011190	Member
4	THATIPARTHY JAVALI	RA2011003011222	Member

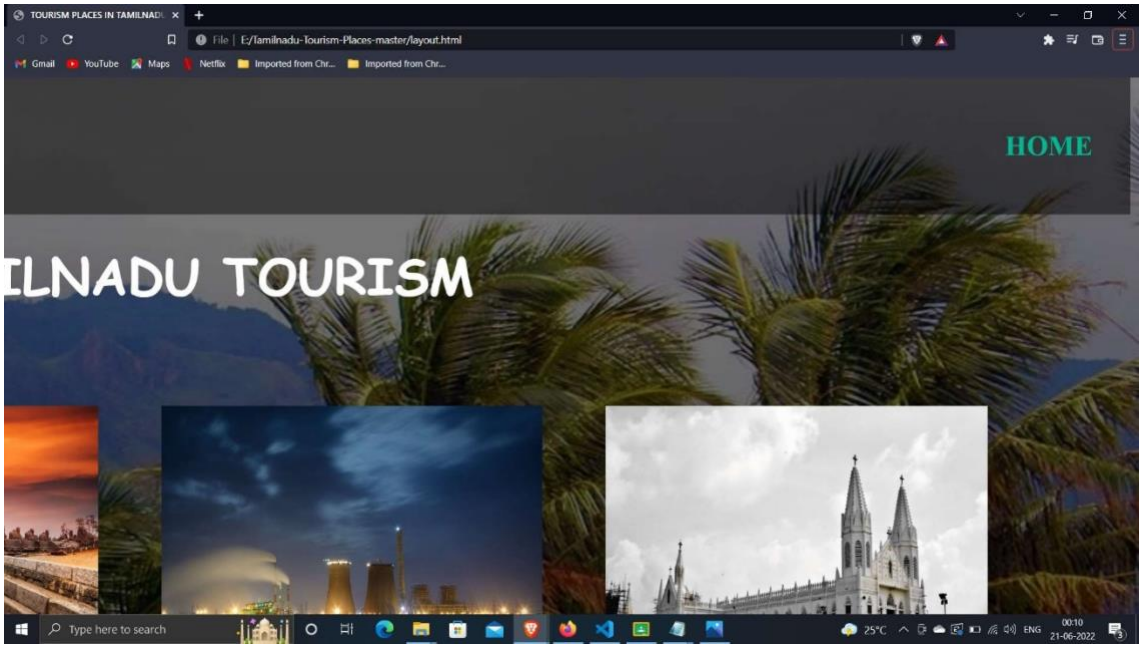
1. **Main page:** it shows the background photo and the title of our project. i.e.-Tamilnadu tourism.



Code:

```
<title>TOURISM PLACES IN TAMILNADU</title>
        <link rel="stylesheet" href="style.css">
        <meta name="viewport" content="width = device-width, initial-scale=1.0">
            <link
href="https://fonts.googleapis.com/css2?family=Caveat:wght@700&display=swap" rel="stylesheet">
            <link
rel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/3.7.2/animate.min.css">
            <link
href="https://fonts.googleapis.com/css2?family=Flamenco&display=swap" rel="stylesheet">
```

2. **The" HOME " Button:** It is at the top right corner. Its work is to bring the user back to the home page after surfing on the website. There is also a logo named 'TAMIZH MAKALE' on the top left corner which means Tamil people.



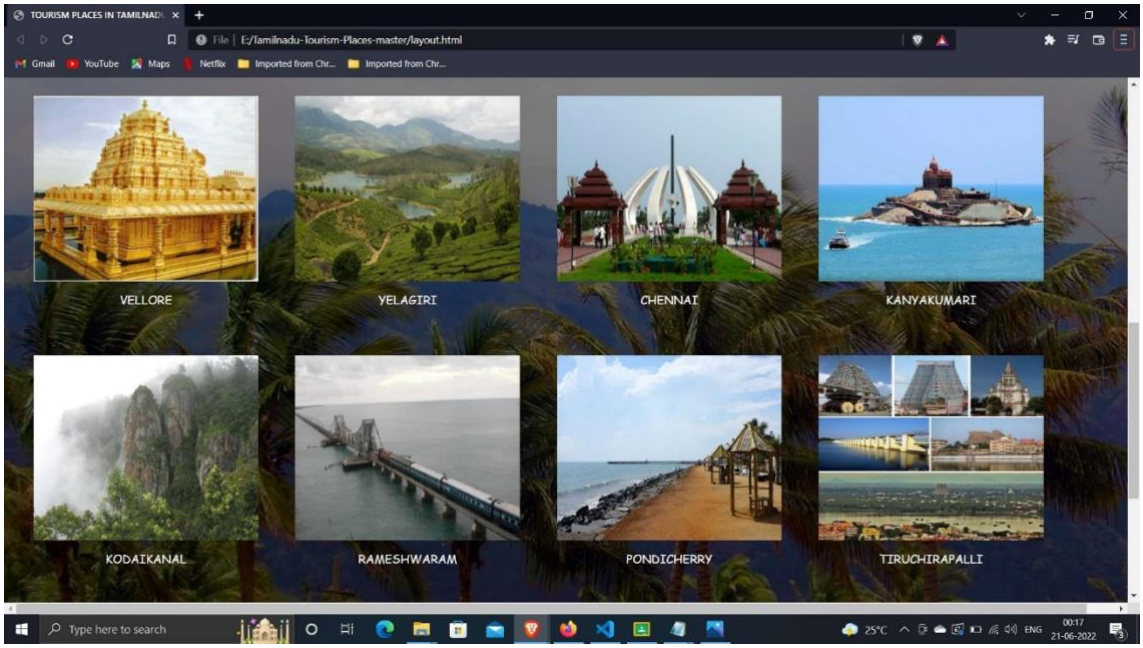
Code:

```
<section class="header">
<nav>
                    class="logo"><h1
<div                                class="animated
MAKALE</h1></div>
        <a href="layout.html">Home</a>
      </nav>
<div id="title"><h1>TAMILNADU TOURISM</h1></div>      infinite      heartBeat">TAMIZH

 <div class="container-fluid">
<div class="container">
<ul>
```

3.

Different photographed links for different places in Tamilnadu: Different places like- Chennai ,Madurai , Ooti etc , are there on the main page of the website so a user can easily find the perfect place for them to travel.



Code:

```
<li><a href="hogenakkal.html"><img class="just_fix" src="https://i.imgur.com/rxeGzua.jpg"></a><div class="title">HOGENAKKAL</div></li>
<li><a href="mahabalipuram.html"><img class="just_fix" src="https://i.imgur.com/8EibFzc.jpg"></a><div class="title">MAHABALIPURAM</div></li>
<li><a href="thootukudi.html"><img class="just_fix" src="https://i.imgur.com/ICUQnzb.jpeg"></a><div class="title">THOOTUKUDI</div></li>
<li><a href="velankanni.html"><img class="just_fix" src="https://i.imgur.com/fJKPUDw.jpg"></a><div class="title">VELANKANNI</div></li>
<li><a href="thanjavur.html"><img class="just_fix" src="https://i.imgur.com/RYXMZrJ.jpeg" ></a><div class="title">THANJAVUR</div></li>
<li><a href="thiruvannamalai.html"><img class="just_fix" src="https://i.imgur.com/dArIBNd.jpg" ></a><div class="title">THIRUVANNAMALAI</div></li>
<li><a href="ooty.html"><img class="just_fix" src="https://i.imgur.com/qtfmy6N.jpeg" ></a><div class="title">OOTY</div></li>
<li><a href="madurai.html"><img class="just_fix" src="https://i.imgur.com/PN7zqZ1.jpg" ></a><div class="title">MADURAI</div></li>
<li><a href="vellore.html"><img class="just_fix" src="https://i.imgur.com/PvQAZlp.jpg" ></a><div class="title">VELLORE</div></li>
<li><a href="yelagiri.html"><img class="just_fix" src="https://i.imgur.com/5B1EEJ2.jpeg"></a><div class="title">YELAGIRI</div></li>
<li><a href="chennai.html"><img class="just_fix" src="https://i.imgur.com/rfVAsl1.jpg"></a><div class="title">CHENNAI</div></li>
<li><a href="kanyakumari.html"><img class="just_fix" src="https://i.imgur.com/CmMKU62.jpg"></a><div class="title">KANYAKUMARI</div></li>
```

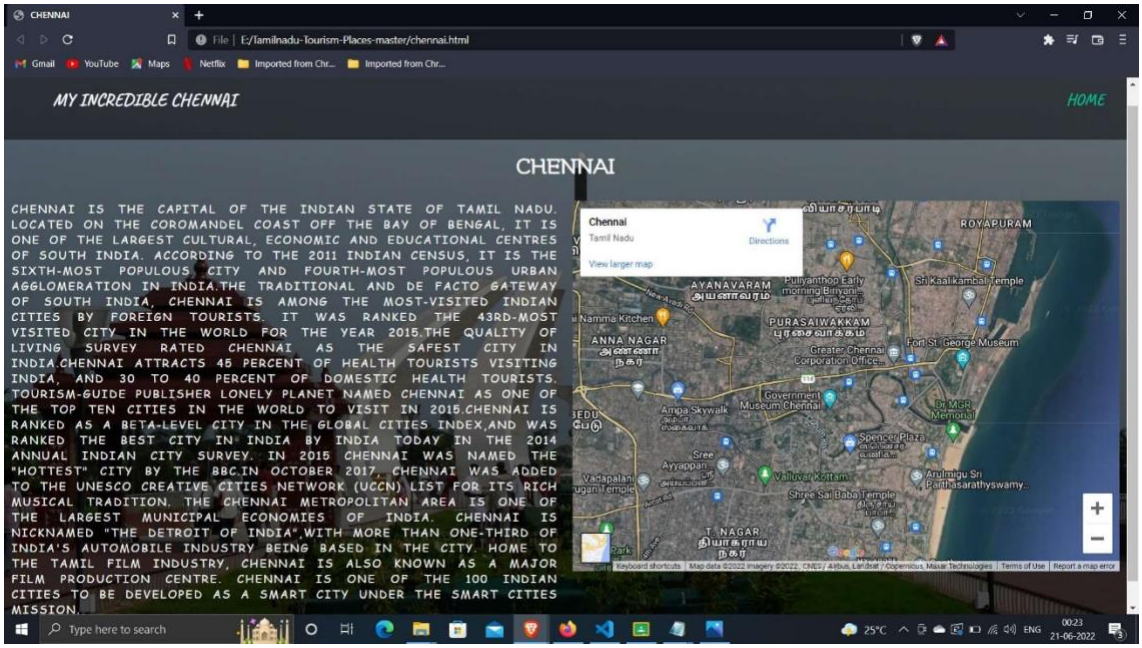
```
<li><a href="kodaikanal.html"><img class="just_fix" src="https://i.imgur.com/YxXo6zT.jpeg"></a><div class="title">KODAIKANAL</div></li>
<li><a href="rameshwaram.html"><img class="just_fix" src="https://i.imgur.com/SzbVLr1.jpeg"></a><div class="title">RAMESHWARAM</div></li>
<li><a href="pondicherry.html"><img class="just_fix" src="https://i.imgur.com/RdFreVk.jpg"></a><div class="title">PONDICHERRY</div></li>
<li><a href="tiruchirapalli.html"><img class="just_fix" src="https://i.imgur.com/COBgPoz.jpeg"></a><div class="title">TIRUCHIRAPALLI</div></li>
<li><a href="auroville.html"><img class="just_fix" src="https://i.imgur.com/c87HNAu.jpg"></a><div class="title">AUROVILLE</div></li>

<li><a href="kumbakonam.html"><img class="just_fix" src="https://i.imgur.com/1w7OiSE.jpg"></a><div class="title">KUMBAKONAM</div></li>
<li><a href="kanchipuram.html"><img class="just_fix" src="https://i.imgur.com/6eUeS5g.jpg"></a><div class="title">KANCHIPURAM</div></li>

<li><a href="chidambaram.html"><img class="just_fix" src="https://i.imgur.com/niCXVXa.jpeg"></a><div class="title">CHIDAMBARAM</div></li>

</ul>
</div>
</div>
```

4. **Link for Chennai((with location) :** this module includes the description of the place and the location on google maps, which helps the user to find the perfect place and get some knowledge about that place.



Code:

```
<div id="title"><h1>CHENNAI</h1></div>
                    <div class="description">
                    <span class="des">Chennai is the capital of the Indian state of Tamil Nadu. Located on the Coromandel Coast off the Bay of Bengal, it is one of the largest cultural, ..........
                    ..... also known as a major film production center. Chennai is one of the 100 Indian cities to be developed as a smart city under the Smart Cities Mission.
                    </span>
                    <br/>
                    </div>
                    <div class="map">
                <div class="mapouter"><div class="gmap_canvas"><iframe width="100%" height="500" id="gmap_canvas" src="https://maps.google.com/maps?q=chennai%20&t=k&z=13&ie=UTF8&iwloc=&output=embed" frameborder="0" scrolling="no" marginheight="0" marginwidth="0" frameborder="0" style="border:0;" allowfullscreen="" aria-hidden="false" tabindex="0"</iframe><a href="https://add-google-map.com"></a></div>
                </div>
                </header>
            </body>
</html>
```

Result:

Thus, the details of architectural design/framework/implementation along with the screenshots were provided.