LAB REPORT

Submitted by

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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 CORE



SCHOOL OF COMPUTING

COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR - 603203
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SRM INSTITUTE OF SCIENCE & TECHNOLOGY S.R.M. NAGAR, KATTANKULATHUER – 603 203 Chengalpattu District

BONAFIDE CERTIFICATE

Register No. RA2111003010935 Certified to be the bonafide work done by RAUNAK SHARMA of II Year/IV

Sem B. Tech Degree Course in the Practical Software Software Engineering and Project Management 18CSC206J in SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, Kattankulathur during the academic year 2022 – 2023.

LAB INCHARGE

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Date :

ABSTRACT

An online travel website is a platform that allows users to search, compare, and book travel products and services, such as flights, hotels, car rentals, and vacation packages, through the internet. These websites provide users with a convenient way to plan and book their travel, allowing them to browse multiple options and compare prices and features to find the best deal. Online travel websites use a variety of features such as search filters, user reviews, and paymentgateways to provide a seamless user experience. Additionally, some travel websites offer loyaltyprograms and special deals to encourage users to book through their platform. Overall, online travel websites have revolutionized the way people plan and book their travel, providing a one- stop-shop for all their travel needs.

Online travel websites have become increasingly popular in recent years, with the rise of internetand mobile technology making it easier than ever to book travel online. These websites offer a range of benefits to users, such as the ability to search and compare multiple options, access to exclusive deals and discounts, and the convenience of booking from the comfort of their own home. They also provide a platform for travelers to share their experiences and provide feedbackon their travels, helping others make informed decisions about their own travel plans.

To compete in the crowded online travel market, travel websites need to offer a range of features and services that cater to the needs and preferences of their users. This includes offering flexible payment options, providing real-time updates on pricing and availability, and offering personalized recommendations based on user preferences and past travel history. Additionally, travel websites need to provide a secure and reliable platform that protects user data and ensures aseamless booking experience.

As the travel industry continues to evolve, online travel websites are likely to play an increasinglyimportant role in shaping the way people travel. They will need to continue to innovate and adapt to changing user needs and preferences to remain competitive and relevant in the years to come.

TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
	ABSTRACT	3
	LIST OF FIGURES	5
1	PROBLEM STATEMENT	6-8
2	STAKEHOLDERS & PROCESS MODELS	9-12
3	IDENTIFYING REQUIREMENTS	13-16
4	PROJECT PLAN & EFFORT	17-21
5	WORK BREAKDOWN STRUCTURE & RISK ANALYSIS	22-26
6	SYSTEM ARCHITECTURE, USE CASE & CLASS DIAGRAM	27-30
7	ENTITY RELATIONSHIP DIAGRAM	31-34
8	DATA FLOW DIAGRAM	35-38
9	SEQUENCE & COLLABORATION DIAGRAM	39-41
10	DEVELOPMENT OF TESTING FRAMEWORK/USER INTERFACE	42-46
11	TEST CASES	47-52
12	TEST CASES & REPORTING	53-55
13	ARCHITECTURE/DESIGN/FRAMEWORK/IMPL-MENTATION	56-68
	CONCLUSION	69
	REFERENCES	70
	APPENDIX (CODE)	71

LIST OF FIGURES

FIGURE NO	TITLE	PAGE NO
1 (EXPT-5)	WORK BREAKDOWN SYSTEM (WBS)	23
2 (EXPT-5)	TIMELINE-GANTT CHART	25
3 (EXPT-5)	RISK ANALYSIS – SWOT & RMMM	26
4 (EXPT-6)	SYSTEM ARCHITECTURE	28
5 (EXPT-6)	USE CASE	29
6 (EXPT-6)	CLASS DIAGRAM	30
7 (EXPT-7)	ER DIAGRAM	32
8 (EXPT-8)	DATA FLOW DIAGRAM LEVEL-0	37
9 (EXPT-8)	DATA FLOW DIAGRAM LEVEL-1	38
10 (EXPT-9)	SEQUENCE DIAGRAM	40
11 (EXPT-9)	COLLABORATION DIAGRAM	41
12 (EXPT-13)	ARCHITECTURAL DESIGN i. Home Page	57-59
	ii. Blog Page	
	iii. Service Page	
	iv. Destination Page	



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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	24/01/2023

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, analyse and identify a Software project. To create a business case and Arrive at a Problem Statement for the BAGpacker.

Team Members:

S. No	Register No	Name	Role
1	RA2111003010951	Bhavya Malhotra	Lead/Rep
2	RA2111003010935	Raunak Sharma	Member

Project Title: BagPacker

Problem Statement:

ONE PAGE BUSINESS CASE TEMPLATE

DATE	01/02/2023
SUBMITTED BY	Raunak Sharma
TITLE / ROLE	Menber



THE PROJECT

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

- Deciding on a travel destination can be a difficult and time-consuming task, especially when there are so many options to choose from.
- Our aim is to simplify the travel destination decision making by creating an interface
 that takes into consideration a user's travel preferences, budget and other factors to
 recommend the most suitable destinations from them.
- The interface will use a data analysis to make recommendations for better results.

THE HISTORY

In bullet points, describe the current situation.

- Earlier the people used to find it difficult to decide a travel destination.
- Increase in the number of travelers every year.
- With the help of some clicks, now user don't have to ask other person for suggestions, budget, etc

LIMITATIONS

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

- Reliance on user generated content.
- Limited coverage of destinations.
- Need for information about these places from a database that isn't very cheap.
- Privacy concerns.

APPROACH

List what is needed to complete the project.

- The user's current location needs to be fetched.
- The location needs to be sent to Google Maps API so that we can get all the information we need about nearby places.
- Then the information needs to be displayed in a user-friendly way.
- Data collection, user engagement, continuous improvement.

BENEFITS

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

- <u>Time-saving:</u> A travel destination decider website can save travelers time by providing them with relevant information and recommendations based on their preferences. This can help them make informed decisions about their travel destination without having to spend hours researching and comparing different options.
- <u>Personalized recommendations:</u> The website can provide users with personalized recommendations based on their individual preferences and interests. This can help users discover destinations that they might not have considered otherwise and make the most of their travel experience.
- **Convenience:** The website can be accessed from anywhere, at any time, making it easy for travelers to plan their trips from the comfort of their own home.
- Access to a wealth of information: The website can provide users with access to a
 wealth of information about travel destinations, including reviews, photos, maps, and
 local information.
- **Cost savings:** By providing users with recommendations based on their budget, travel destination websites can help users save money on their trips.
- Connecting with other travelers: Some travel destination decision websites offer forums and social media integration, which can help users connect with other travelers and share their experiences.
- <u>Improved trip planning:</u> By providing users with recommendations, a travel destination decider website can help users plan their trips more efficiently and effectively, ensuring that they get the most out of their travels.

Result:

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



SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	2
Title of Experiment	Identification of Process Methodology and Stakeholder
Name of the candidate	Description Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	01/02/2023

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	RA2111003010951	Bhavya Malhotra	Rep/Member
2	RA2111003010935	Raunak Sharma	Member

Project Title: BAGpacker **Selection of Methodology**

- Agile Model: Agile model believes that every project needs to be handled differently and the existing methods need to be tailored to best suit the project requirements. In Agile, the tasks are divided to time boxes (small time frames) to deliver specific features for a release.
- Iterative approach is taken and working software build is delivered after each iteration. Each build is incremental in terms of features; the final build holds all the features required by the customer
- Here is a graphical illustration of the Agile Model



Fig. Agile Model

Stakeholder Name	Activity/ Area /Phase	Interest	Influence	Priority (High/ Medium/ Low)
Owner	Decision making, policies	product developmen t	High	High
UI & UX designers	interface of app and website	designs for best user experience	high	high
Developers	building and managing software	building, thinking and organizing interest areas	high	high
Project manager	responsibility for writing the project proposal, project cost estimation, scheduling, project staffing	planning, organizing and directing	high	high
Investors	promoter of the investment	financial resource	medium	medium
Reso urce man ager	Resource planning and Allocation	Ensuring Quality resources according to budget	medium	medium
User	Feedback	Feedback	Low	Low

. Interest and Influence matrix

Interest	Influence
High	High
Low	Low
Low	High
High	Low

Stakeholder	Interests	Estimated	Estimated Priority
0	A -1: t - T1	Project Impact	Priority
Owner	Achieve targets, Increase sales margin	High	1
Sponsor	Provides new market to expand ventures	Med	3
	Negotiate funding for project		
	Reviews changes to project environments.		
Team	Demand incentives	High	2
members	Retain and upgrade skills		
	New product excitement		
Project	Lead the team in every aspect.	High	
Manager	Accountable for entire project scope, team,		2
	success & failure		
Investors	Promoter of the investment,	Low	5
	Provides necessary financial resources		
Resource	Resource planning and allocation.	Med	4
Manager	Ensuring adequate resource according to		
	project needs and budget.		
Suppliers	Ensuring feasible and realistic in every aspect	Med	6
	Managing divergence from budgeted cost.		
End Users	Provides feedback	Low	7

Result:

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



SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	3
Title of Experiment	System, Functional and Non-Functional Requirements of the
Name of the candidate	Project Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	08/02/2023

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

Team Members:

S No	Register No	Name	Role
1	RA2111003010951	BHAVYA MALHOTRA	Rep/Member
2	RA2111003010935	RAUNAK SHARMA	Member

Project Title: BAGpacker

System Requirements:

- Web server: A website requires a web server to host the site and serve web pages to
 visitors. The web server may be a physical server or a cloud-based server, and it should
 meet the recommended specifications for the web server software being used.
- Operating system: The web server must have a compatible operating system installed, such as Windows or Linux.
- Web server software: The web server should be configured with the necessary software to support the website, such as Apache, Nginx, or IIS.
- Database: If the website relies on a database to store and retrieve data, the web server should have the appropriate database software installed, such as MySQL or PostgreSQL.
- Programming language: The website may be built using one or more programming languages, such as PHP, Python, or JavaScript. The web server should have the necessary language interpreters and libraries installed to support the website.
- Bandwidth and storage: The website will require sufficient bandwidth and storage to handle expected traffic and data storage needs.
- Security: The website should be designed with appropriate security measures in place to protect against attacks and data breaches.

It's important to consider these factors when developing and hosting a website to ensure that it is stable, reliable, and secure for visitors.

Functional Requirements: Functional requirements for a travel backend website may include the following:

- 1. User authentication and authorization: The website should provide a secure way for users to authenticate and authorize access to the system.
- 2. Flight booking and management: The website should allow users to search for available flights, select a flight, and book it. Users should also be able to manage their flight bookings, including canceling or modifying them.
- 3. Hotel booking and management: The website should allow users to search for available hotels, select a hotel, and book it. Users should also be able to manage their hotel bookings, including canceling or modifying them.
- 4. Car rental booking and management: The website should allow users to search for available cars, select a car, and book it. Users should also be able to manage their car rental bookings, including canceling or modifying them.
- 5. Payment processing: The website should be able to process payments for flight, hotel, and car rental bookings. It should also provide users with a secure way to store their payment information.
- 6. Customer support: The website should provide users with a way to contact customer support if they have any issues with their bookings.
- 7. Reporting and analytics: The website should provide administrators with a way to track bookings, revenue, and other key metrics. This data can be used to optimize the website and improve the user experience.
- 8. Integration with third-party services: The website may need to integrate with third-party services, such as airline booking systems or hotel reservation systems, to provide users with up-to-date availability and pricing information.

These functional requirements can help ensure that the travel backend website provides a seamless and reliable experience for users while also providing the necessary tools for administrators to manage and optimize the site.

Non-Functional Requirements: Non-functional requirements for a travel backend website are important to ensure that the website is performant, scalable, and secure. Here are some common non-functional requirements for a travel backend website:

1. Performance: The website should be fast and responsive, with quick page load times and minimal latency. It should be able to handle high traffic volumes without slowing down or crashing.

- 2. Scalability: The website should be designed to scale up or down based on changing traffic volumes. It should be able to handle spikes in traffic without affecting performance.
- 3. Reliability: The website should be reliable and available at all times, with minimal downtime or maintenance windows.
- 4. Security: The website should be secure, with measures in place to protect user data and prevent unauthorized access. It should comply with applicable security standards, such as PCI DSS or GDPR.
- 5. Accessibility: The website should be accessible to users with disabilities, with support for assistive technologies such as screen readers and keyboard navigation.
- 6. Usability: The website should be easy to use and intuitive, with a user-friendly interface and clear navigation.
- 7. Maintainability: The website should be easy to maintain and update, with a well-organized codebase and documentation.
- 8. Compatibility: The website should be compatible with a wide range of browsers and devices, with a responsive design that adapts to different screen sizes.

By addressing these non-functional requirements, the travel backend website can provide a high-quality user experience that is performant, reliable, secure, and accessible.

Result:

Thus the requirements were identified and accordingly described.



SRM IST, Kattankulathur – 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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	15/02/2023

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	RA2111003010951	BHAVYA MALHOTRA	Lead
2	RA2111003010935	RAUNAK SHARMA	Member

Project Title: BAGpacker

1. Project Management Plan

Focus Area	Details
Integration Management	Governance Framework Project Team Structure Roles & Responsibilities of Team Change Management (Change Control, Issue Management)
Scope Management	Scope Statement Requirement Management (Gathering, Control, Assumption) 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	People: People & Skills Required Finance: Budget Required
Communication Management	Determine communication requirements, roles and responsibilities, tools and techniques. [Type of Communication]
Risk Management	Identifying, analyzing, and prioritizing project risks

2. Estimation

2.1. Effort and Cost Estimation

Activity Description	Sub-Task	Sub-Task Description	Effort (in hour s)	Cost in INR
Design the user screen	E1R1A1T1 (Home Screen)	The website prompts to the home screen which provides the basic details of the website. KLOC=1.2	1.45	.50
	E1R1A1T2 (Privacy Policy)	The page will make sure that the user details are kept private and protected KLOC=0.2	0.5	375. 0
	E1R1A1T3 (User Login)	This is a webpage where users enter their username and password to access a website. KLOC=0.5	1.5	.0
	E1R1A1T4 (Main Page)	This webpage provides with variety of options for the user to choose one destination according to their desire. KLOC=1.9	6	4500
	E1R1A1T5 (Destination Specification Page)	This webpage will show the details of the destination chosen by the user. KLOC=1.0	2	1500
	E1R1A1T6 (Hotel booking)	Different hotels according to user's interest will occur on the screen and user will choose one and succeed towards payment. KLOC=1.6	4.5	3375
	E1R1A1T7 (Restaurants Suggestion)	This page shows the best restaurants according to user's interest. KLOC=1.5	3	2250
Database Management	E1R1A2T1 (Backend)	It stores and arranges data and also make sure everything on the client side of the website works fine. KLOC=4	20	1500 0

Effort (hr)	Cost (INR)
1	750

2.2. Infrastructure/Resource Cost [CapEx]

Infrastructure Requirement	Qty	Cost per qty	Cost per item
IR1	2	10000	20000
IR2	5	5000	25000

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

3. Project Team Formation

3.1. Identification Team members

Name	Role	Responsibilities
Raunak Sharma,	Key Business User (Product	Provide clear business and user
Bhavya Malhotra	Owner)	requirements
Bhavya Malhotra	Project Manager	Manage the project
Raunak Sharma	Business Analyst	Discuss and Document Requirements
Bhavya Malhotra	Technical Lead	Design the end-to-end architecture
Bhavya Malhotra,	UX Designer	Design the user experience
Raunak Sharma		
Raunak Sharma	Frontend Developer	Develop user interface
Bhavya Malhotra	Backend Developer	Design, Develop and Unit Test
		Services/API/DB
Bhavya Malhotra	Cloud Architect	Design the cost effective, highly
		available and scalable architecture
Raunak Sharma	Cloud Operations	Provision required Services
Bhavya Malhotra,	Tester	Define Test Cases and Perform
Raunak Sharma		Testing

3.2. Responsibility Assignment Matrix

RACI Matrix	Team Members			
Activity	Name (BA) Raunak Sharma	Name (Developer) Bhavya Malhotra	Name (Project Manager) Bhavya Malhotra	Key Business User
User Requirement Documentation	А	C/I	I	R
Website Designing	I	Α	R	
Data Integration and Security	С	A/R	A/R	
Database Management	R	I/A	R	

Α	Accountable
R	Responsible
С	Consult
1	Inform

Result:

Thus, the Project Plan was documented successfully.



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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	Raunak Sharma		
Team Members	Bhavya Malhotra (RA2111003010951)		
Register Number	RA2111003010935		
Date of Experiment	22/02/2023		

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

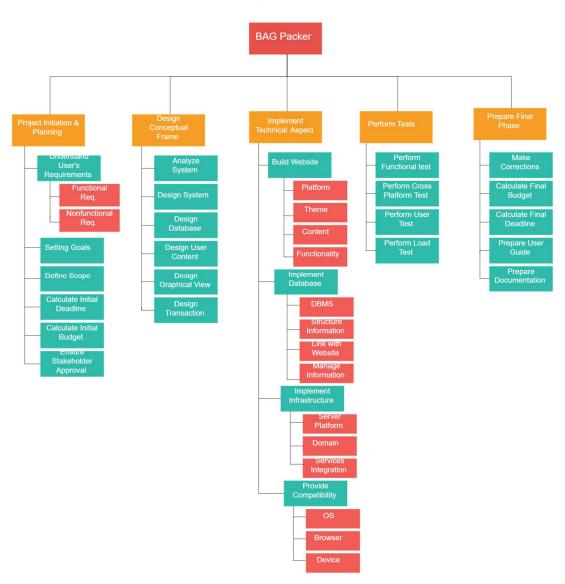
Team Members:

Sl No	Register No	Name	Role
1	RA2111003010951	Bhavya Malhotra	Rep
2	RA2111003010935	Raunak Sharma	Member

Project Title: BAGpacker

WBS

Travel agency service based WBS



0.0 BAG Packer

- 1.0 Project Initiation and Planning
 - 1.1 Understand User's requirements
 - 1.2 Setting goals
 - 1.3 Define Scope
 - 1.4 Calculate Initial Deadline
 - 1.5 Calculate Initial Budget
 - 1.6 Ensure Stakeholder Approval

2.0 Design Conceptual Frame

- 2.1 Analyze System
- 2.2 Design System
- 2.3 Design Database
- 2.4 Design user content
- 2.5 Design Graphical View
- 2.6 Design Transaction

3.0 Implement Technical Aspect

- 3.1 Build Website
- 3.2 Implement database
- 3.3 Implement Infrastructure
- 3.4 Provide compatibility

4.0 Perform Tests

- 4.1 Perform Functional test
- 4.2 Perform cross platform test
- 4.3 Perform user test
- 4.4 Perform load test

5.0 Prepare Final Phase

- 5.1 Make corrections
- 5.2 Calculate final budget
- 5.3 Calculate final deadline
- 5.4 Prepare user guide
- 5.5 Prepare documentation

TIMELINE – GANTT CHART

Task	Duration	Start Date	End Date
Phase 1: Planning	2 weeks	01/02/2023	14/02/2023
Define project scope	2 days	01/02/2023	02/02/2023
Conduct market research	3 days	03/02/2023	07/02/2023
Identify target audience	1 day	08/02/2023	08/02/2023
Create project plan	4 days	09/02/2023	14/02/2023
Phase 2: Design and Development	12 weeks	15/02/2023	09/05/2023
Develop website architecture	2 weeks	15/02/2023	28/02/2023
Design website layout	3 weeks	01/03/2023	21/03/2023
Develop website functionality	5 weeks	22/03/2023	25/04/2023
Implement payment gateway	2 weeks	26/04/2023	09/05/2023
Phase 3: Testing and Launch	4 weeks	10/05/2023	06/06/2023
Perform website testing	2 weeks	10/05/2023	23/05/2023
Address issues and bugs	1 week	24/05/2023	30/05/2023
Launch website	1 week	31/05/2023	06/06/2023

BAGPACKEP SWOT Analysis STRENGTHS Providing the best travel deals Best hotels in the area Wide range of travel options Wide range of travel options Convenience User reviews Convenience User reviews WEAKNESSES OPPORTUNITIES Mobile Optimization Current services are not personalized enough Current services are not personalized enough Description of the personalized enough Description in the personalized enough Description in the personalized enough Description in the personalized enough Description of the personal pe

Result:

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



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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	Raunak Sharma
Team Members	Bhavya Malhotra(RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	01/03/2023

Mark Split Up

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

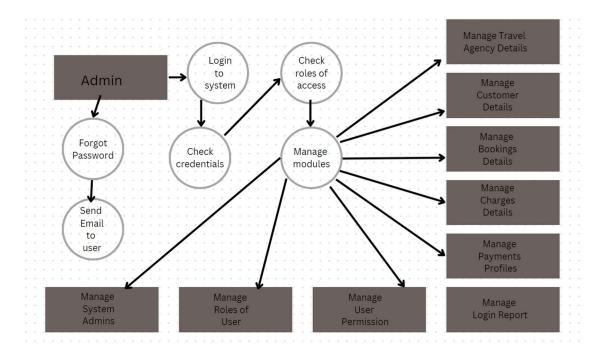
To Design a System Architecture, Use case and Class Diagram

Team Members:

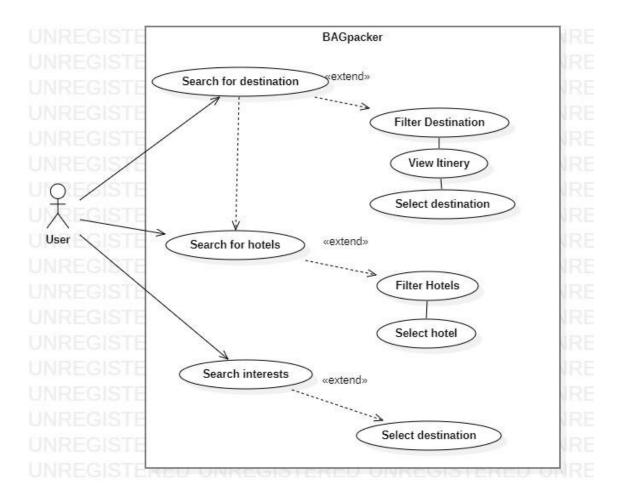
Sl No	Register No	Name	Role
1	RA2111003010951	BHAVYA MALHOTRA	Rep
2	RA2111003010935	RAUNAK SHARMA	Member

Project Title: BAGpacker

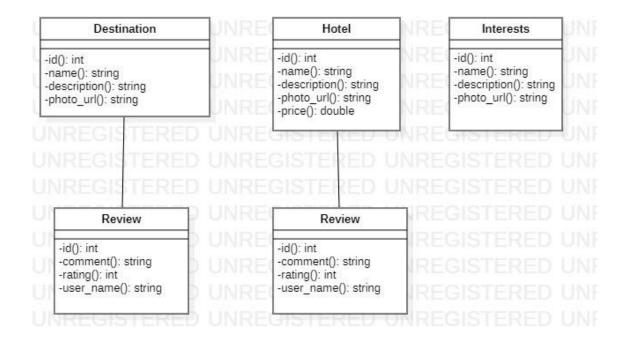
SYSTEM ARCHITECTURE



USE CASE DIAGRAM



CLASS DIAGRAM



Result:

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



SRM IST, Kattankulathur – 603 203

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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	09/03/2023

Mark Split Up

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

Staff Signature with date

Aim

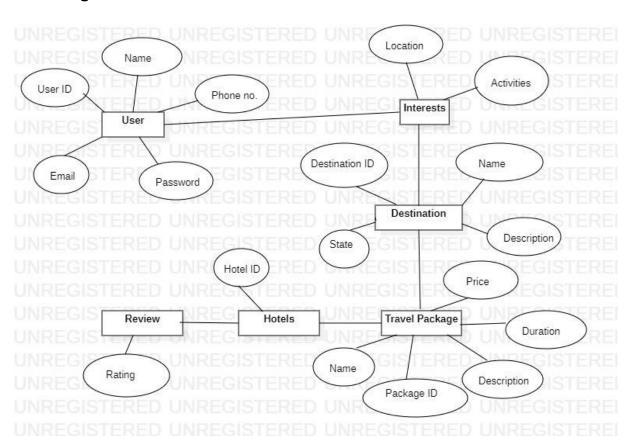
To create the Entity Relationship Diagram

Team Members:

S No	Register No	Name	Role
1	Bhavya Malhotra	RA2111003010951	Rep
2	Raunak Sharma	RA2111003010935	Member

Project Title: BAGpacker

ER Diagram



What is ER Diagram?

- ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships.
- ER Diagrams contain different symbols that use rectangles to represent entities, ovals to define attributes and diamond shapes to represent relationships.
- At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique. The purpose of ER Diagram is to represent the entity framework infrastructure.

What is ER Model?

- ER Model stands for Entity Relationship Model is a high-level conceptual data model diagram. ER model helps to systematically analyze data requirements to produce a well-designed database.
- ER Model represents real-world entities and the relationships between them. Creating an ER Model in DBMS is considered as a best practice before implementing your database.
- ER Modeling helps you to analyze data requirements systematically to produce a well-designed database. So, it is considered a best practice to complete ER modeling before implementing your database.

Why use ER Diagrams?

Here, are prime reasons for using the ER Diagram

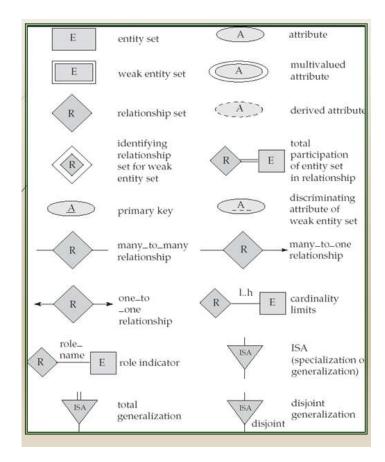
- Helps you to define terms related to entity relationship modeling
- Provide a preview of how all your tables should connect, what fields are going to be on each table
- Helps to describe entities, attributes, relationships
- ER diagrams are translatable into relational tables which allows you to build databases quickly
- ER diagrams can be used by database designers as a blueprint for implementing data in specific software applications
- The database designer gains a better understanding of the information to be contained in the database with the help of ERP diagram
- ERD Diagram allows you to communicate with the logical structure of the database to users

Components of the ER Diagram

This model is based on three basic concepts: Entities, Attributes, Relationships

ER Diagram – Notations

- Rectangles represent entity sets.
- Diamonds represent relationship sets.
- Lines link attributes to entity sets and entity sets to relationship sets.
- Ellipses represent attributes
- Double ellipses represent multivalued attributes.
- Dashed ellipses denote derived attributes.
- Underline indicates primary key attributes



Result:

Thus, the entity relationship diagram was created successfully.



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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	16/03/2023

Mark Split Up

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

Staff Signature with date

To develop the data flow diagram up to level 1 for the BAGpacker.

Team Members:

S No	Register No	Name	Role
1	Bhavya Malhotra	RA2111003010951	Rep
2	Raunak Sharma	RA2111003010935	Member

Project Title: BAGpacker

Data Flow Diagram

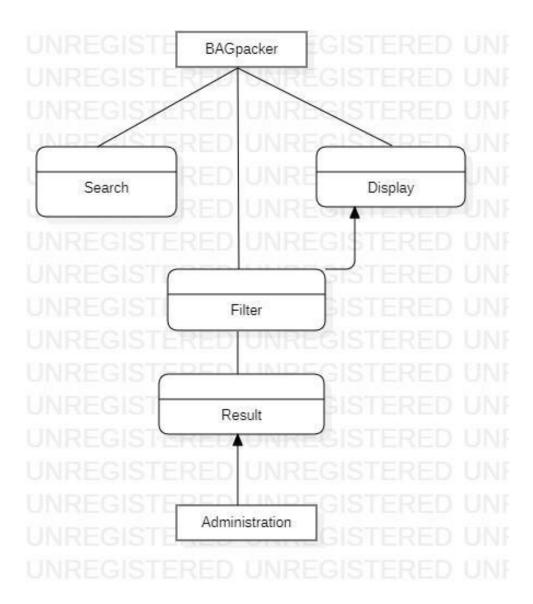
The DFD takes an input-process-output view of a system. That is, data objects flow into the software, are transformed by processing elements, and resultant data objects flow out of the software. Data objects are represented by labeled arrows, and transformations are represented by circles (also called bubbles). The DFD is presented in a hierarchical fashion. That is, the first data flow model (sometimes called a level 0 DFD or context diagram) represents the system as a whole. Subsequent data flow diagrams refine the context diagram, providing increasing detail with each subsequent level.

The data flow diagram enables you to develop models of the information domain and functional domain. As the DFD is refined into greater levels of detail, you perform an implicit functional decomposition of the system. At the same time, the DFD refinement results in a corresponding refinement of data as it moves through the processes that embody the application.

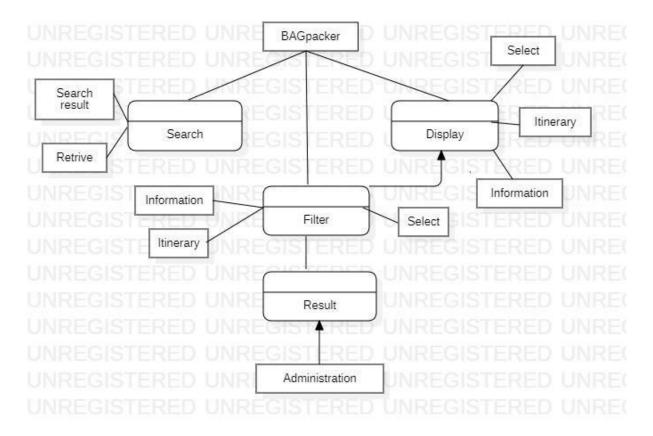
A few simple guidelines can aid immeasurably during the derivation of a data flow diagram:

- (1) Level 0 data flow diagram should depict the software/system as a single bubble;
- (2) Primary input and output should be carefully noted;
- (3) Refinement should begin by isolating candidate processes, data objects, and data stores to be represented at the next level;
- (4) All arrows and bubbles should be labeled with meaningful names;
- (5) Information flow continuity must be maintained from level to level and
- (6) One bubble at a time should be refined. There is a natural tendency to overcomplicate the data flow diagram. This occurs when you attempt to show too much detail too early or represent procedural aspects of the software in lieu of information flow.

DFD Level 0



DFD Level 1



Result:

Thus, the data flow diagrams have been created for the BAGpacker.



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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	24/03/2023

Mark Split Up

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

Aim

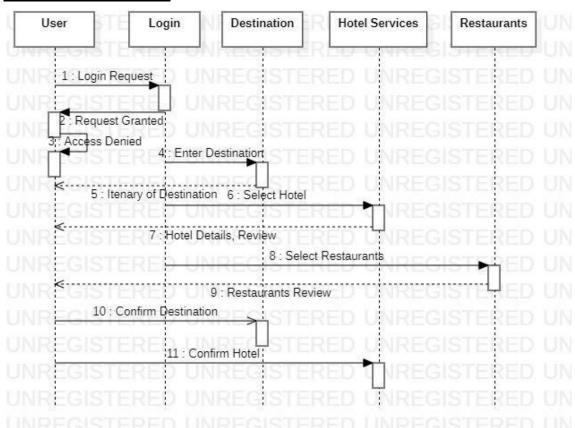
To create the sequence and collaboration diagram for the BAGpacker

Team Members:

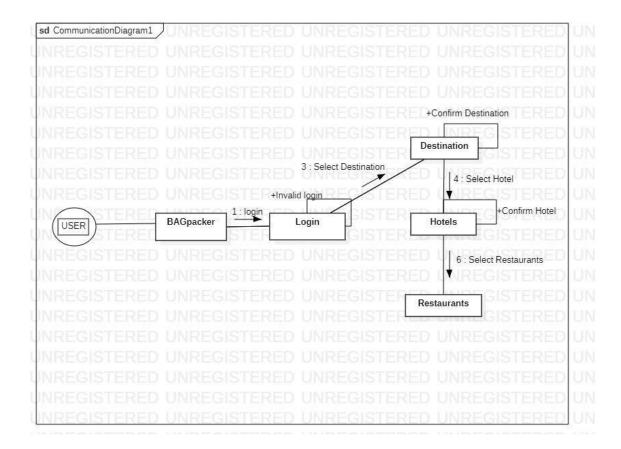
S No	Register No	Name	Role
1	RA2111003010951	Bhavya Malhotra	Rep/Member
2	RA2111003010935	Raunak Sharma	Member

Project Title: BAGpacker

SEQUENCE DIAGRAM:



Collaboration Diagram



Result:

Thus, the sequence and collaboration diagrams were created for the BAGpacker.



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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	31/03/2023

Mark Split Up

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

Aim:

To develop the testing framework and/or user interface framework for the BAGpacker.

Team Members:

1 Bhavya Malhotra	Rep/Member
5 Raunak Sharma	Member
	·

Project Title: BAGpacker

Executive Summary

Scope:-

The scope of our travel website "BAGpacker" includes typically serving as an online platform that allows travelers to research, plan and book their trips. Its scope can be broad and varied depending on the specific goals and target audience of the website. Some general points that must be included are:

- Destination Information: The website can provide information about various destinations, including popular attractions, local culture, accommodation options, transportation, weather, and local events.
- Travel Planning Tools: Many travel websites offer tools such as trip planners, itinerary builders, and budget calculators that can help users plan their trips.
- Booking and Reservations: A travel website can allow users to book flights, hotels, rental cars, and other travel-related services directly on the website.
- Reviews and Recommendations: Travel websites often include reviews and recommendations from other travelers, which can help users make informed decisions about their trips.
- <u>Travel Deals and Discounts: Many travel websites offer special deals and discounts on flights, hotels, and other travel-related services.</u>
- Travel Tips and Advice: A travel website can also provide travel tips and advice on topics such as packing, safety, and cultural etiquette.
- <u>Travel Blogs: Some travel websites have blogs that feature travel stories, destination guides,</u> and other related content.

Overall, the scope is to provide a one-stop-shop for travelers to plan, book, and research their trips, making their travel experience more convenient and enjoyable.

Objective:-

The objective of a travel website is to provide users with information about different travel destinations, accommodations, and other travel-related services. The main goal is to help users plan and book their travel experiences in an easy, convenient, and efficient way. A

travel website typically provides users with a variety of features, such as search and comparison tools for flights and hotels, user reviews and ratings of destinations and services, travel guides and recommendations, and booking and payment options. The ultimate aim is to provide users with a seamless and personalized travel experience that meets their specific needs and preferences. Additionally, a travel website may also aim to generate revenue by earning commissions or fees from bookings made through the site.

Approach to test the software application:-

- 1. Testing a travel website involves several aspects, such as functionality testing, usability testing, security testing, and performance testing. Here's an approach that can be used to test a software application for a travel website:
- 2. Define the testing scope: Identify the key features and functionalities that need to be tested. This could include features like flight and hotel booking, travel itinerary planning, search functionality, payment processing, user registration and login, etc.
- 3. Create test cases: Based on the testing scope, create a set of test cases that cover different scenarios, including positive and negative test cases. Test cases should be designed to ensure that the application meets the functional requirements, and also to identify any potential issues.
- 4. Perform functional testing: Execute the test cases to ensure that the application functions as expected. This includes testing for things like booking and canceling flights and hotels, search results accuracy, user registration and login, etc.
- 5. Perform usability testing: Evaluate the application's usability by observing users as they interact with the application. This could include testing things like the user interface, ease of use, and the overall user experience.
- 6. Perform security testing: Test the application's security to ensure that sensitive user data is protected. This could include testing for things like authentication and authorization, secure communication protocols, and data encryption.
- 7. Perform performance testing: Test the application's performance to ensure that it can handle a large number of users and transactions without slowing down or crashing. This could include testing things like page load times, server response times, and stress testing the application under heavy loads.
- 8. Document and report issues: Document any issues found during testing and report them to the development team. Issues should be prioritized based on their severity, and the development team should be notified of any critical issues that need to be addressed immediately.

Retest and verify fixes: After the development team has fixed the issues, retest the application to ensure that the fixes were successful and that there are no new issues introduced. By following this approach, you can ensure that the software application for the travel website is thoroughly tested and meets the needs of its users.

Test Plan

Scope of Testing

Functional:

Functional scope testing of a travel website would involve testing the website's features and functions to ensure that they work as intended and meet the requirements of the website's users. Here are some key areas that could be covered in functional scope testing for a travel website:

- 1. <u>User Registration and Login: Test the user registration process to ensure that users can create an account, log in, and reset their passwords if necessary.</u>
- 2. Search and Booking: Test the website's search and booking features to ensure that users can search for flights, hotels, and other travel options, and that they can book and pay for their reservations without any errors.
- 3. <u>Payment Processing: Test the website's payment processing functionality to ensure that transactions are secure and that payment information is handled appropriately.</u>
- 4. Reviews and Ratings: Test the website's reviews and ratings features to ensure that users can leave feedback on their experiences with different travel options, and that this information is displayed accurately and prominently.
- 5. <u>Notifications and Alerts: Test the website's notification and alert system to ensure that users receive timely and relevant information about their reservations, cancellations, and other important updates.</u>
- 6. <u>Mobile Responsiveness: Test the website's mobile responsiveness to ensure that users can access and use the website on a variety of devices, including smartphones and tablets.</u>
- 7. Customer Support: Test the website's customer support features to ensure that users can easily find answers to their questions, get help with any issues they encounter, and receive timely and helpful support from the website's staff.

Non-Functional:

Non-functional requirements are the attributes that define the performance, usability, and security of the software application. For a travel website, here are some non-functional requirements that should be considered:

- 1. Performance: The website should be responsive and fast, with short loading times for pages, search results, and payment processing.
- 2. <u>Usability: The website should be easy to navigate and use, with a user-friendly interface and clear instructions for booking travel arrangements.</u>
- 3. <u>Security: The website should be secure, with measures in place to protect user data and prevent unauthorized access.</u>
- 4. Reliability: The website should be reliable and available to users at all times, with minimal downtime for maintenance or updates.
- 5. <u>Scalability: The website should be able to handle a growing number of users and transactions over time, without compromising on performance or usability.</u>
- 6. <u>Compatibility: The website should be compatible with different browsers and operating systems, to ensure that it can be accessed by the widest possible audience.</u>
- 7. <u>Accessibility: The website should be accessible to users with disabilities, with features like screen readers and keyboard navigation.</u>

By considering these non-functional requirements, the travel website can provide a better user experience, improve user satisfaction, and increase user loyalty.

Types of Testing, Methodology, Tools

Category	Methodology	Tools Required
Functional	Manual	Word Template
Requirements		
1. Functional Testing:	This type of testing involves testing the website's features and functions to ensure that they work as intended.	Selenium: A popular open-source tool for automating web testing.
2. Performance Testing:	This type of testing involves testing the website's performance, including its response time, load capacity, and scalability.	JMeter: A tool for load testing and performance testing.
3. Security Testing:	This type of testing involves testing the website's security features to ensure that sensitive user information is protected and that the website is not vulnerable to attacks.	Burp Suite: A tool for security testing, including vulnerability scanning and penetration testing.
4. <u>Usability</u> <u>Testing:</u>	This type of testing involves testing the website's usability, including its ease of use, navigation, and user interface.	BrowserStack: A tool for cross- browser testing and compatibility testing.
5. Compatibilit y Testing:	This type of testing involves testing the website's compatibility with different browsers, operating systems, and devices.	TestRail: A tool for test management, including test case management and reporting.

Result:

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



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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	10/04/23

Mark Split Up

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

Aim

To develop the test cases manual for the BAGpacker

Team Members:

S No	Register No	Name	Role
1	RA2111003010951	Bhavya Malhotra	Rep
2	RA2111003010935	Raunak Sharma	Member

Project Title: BAGpacker

Test Case

Functional Test Cases

Test	Test	Test		Execution Steps	Expected	Actual	Status	Remarks
ID	Scenario	Case			Outcome	Outcome		
1	Registrati on Process	Verify the user regist ration proce ss	2.	Verify that the registration form is displayed correctly and that all the required fields are marked. Verify that the registration process completes successfully and the user is redirected to the homepage. Verify that the user receives a confirmation email after registration.	User should be taken to the next page and shown the home page	User is shown the home page	Pass	success
2	Search Destinati on	Searc hes desti natio n accor ding	1.	Verify that the search functionality returns accurate results based on the user's input criteria such as destination, departure date, and	The optimal destination is shown.	The optimal route should be displayed on the map with accurate estimated	Pass	success

3	Booking Process	Verify if a booki ng is corre ctly displa yed on the scree n	number of passengers. 2. Verify that the search results include relevant information such as the airline name, flight number, departure and arrival time, and price. 3. Verify that the user can refine their search results by applying filters such as airline, price range, and departure time. 1. Verify that the user can select a flight from the search results and proceed to the booking page. 2. Verify that the booking page displays the flight details and the total price. 3. Verify that the user can enter their personal and payment information and complete the booking process. 4. Verify that the user receives a confirmation email after booking.	The booking should be correctly displayed on the screen and the correct destinati on should be displayed when clicked	The booking should be correctly displayed on the screen and the correct destination should be displayed when clicked	Pass	success
4	User Account	Verify if the user accou nt is regist ered or not.	1. Verify that the user can access their account information and update their personal and payment details. 2. Verify that the user can view their past bookings and cancel or	The user should be registere d to the website.	The user should be registered to the website.	Pass	success

5	Custome r Support	To solve all the probl ems of user	modify their current bookings. 3. Verify that the user can earn and re deem loyalty points, if applicable. 1. Verify that the customer support page is easily accessible from the homepage. 2. Verify that the user can find answers to common questions and issues related to booking, payment, cancellation, and refunds. 3. Verify that the user can contact customer support through email, phone, or chat and receive a prompt and helpful response.	User problems were be solved	User problems were solved	Pass	Success
6	Mobile Responsi veness	Verify if the applic ation is comp atible with differ ent mobil e devic es and brow sers	1. Verify that the website is responsive and works well on different screen sizes and devices such as mobile phones and tablets. 2. Verify that the website loads quickly and the content is displayed correctly on all devices. 3. Verify that the user can easily navigate and interact with the website using touch gestures and virtual keyboards.	The website should be compatib le with different mobile devices and browsers , the user interface should be easy to use on a mobile device.	The application should be compatible with different mobile devices and browsers, the user interface should be easy to use on a mobile device, and location services should work correctly	Pass	Success

Non-Functional Test Cases

Test	Test	Test	Execution Steps	Expected	Actual	Status	Remarks
ID	Scenario	Case		Outcome	Outcome		
1	Performa nce Testing	Test the time taken by the website to load and display the home on differen t network	1.Open the website on a device connected to a network with a slow speed (e.g. 2G) 2.Note down the time taken for the website to load and display 3.Repeat the above steps for network speeds of 3G, 4G, and Wi-Fi	The website should load and display the map within a reasonable time frame on all network speeds	The website should load and display the map within a reasonab le time frame on all network speeds	Pass	success
2	Compati bility Testing	speeds Test the compati bility of the website with differen t web browser s	1.Open the website on different web browsers such as Google Chrome, Mozilla Firefox, and Microsoft Edge 2.Check if the website loads and displays correctly on each web browser	The website should be compatible with all major web browsers and should load and display correctly on each of them	The website should be compatib le with all major web browsers and should load and display correctly on each of them	Pass	success
3	Usability Testing	Test the usability of the website on differen t devices with varying	1.Open the website on different devices with varying screen sizes and resolutions such as mobile phones, tablets, laptops, and desktop computers 2.Check if the website and other elements of the user interface are	The website should be usable on all devices with varying screen sizes and resolutions	The website should be usable on all devices with varying screen sizes and	Pass	success

	screen	displayed properly on	, and the	resolutio	
	sizes	each device	user	ns, and	
	and	3.Check if the user	interface	the user	
	resoluti	interface is easy to	should be	interface	
	ons	navigate and use on	easy to	should	
		each device	navigate	be easy	
			and use on	to	
			each	navigate	
			device	and use	
				on each	
				device	

Result:

Thus, the test case manual has been created for the BAGpacker.



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	Raunak Sharma
Team Members	Bhavya Malhotra (RA2111003010951)
Register Number	RA2111003010935
Date of Experiment	18/04/2023

Mark Split Up

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

Aim

To prepare the manual test case report for the BAGpacker.

Team Members:

S No	Register No	Name	Role
1	RA2111003010951	Bhavya Malhotra	Rep/Member
2	RA2111003010935	Raunak Sharma	Member

Project Title: BAGpacker

Manual Test Case Report to be incorporated

Category	Progress Against Plan	Status
Functional Testing	Green / Amber / Red	Not-Started / In-Progress / Completed
1. Test the user interface to ensure that it is user-friendly and intuitive.	GREEN	IN-PROGRESS
2. Test the navigation of the app to ensure that it is easy to use and understand.	GREEN	IN-PROGRESS
3. Test the functionality of the features to ensure that they are working correctly.	AMBER	IN-PROGRESS
4. Test the performance of the app to ensure that it is responsive and loads quickly.	GREEN	COMPLETED
5. Test the security features to ensure that user data is protected and that the app meets all relevant security standards.	AMBER	IN-PROGRESS
6. Test the security features to ensure that user data is protected and that the app meets all relevant security standards.	GREEN	COMPLETED
Non-Functional Testing	Green / Amber / Red	Not-Started / In-Progress / Completed

1. Usability Test: Test the usability of the app by assessing the user experience and the overall flow of the app.	AMBER	IN-PROGRESS
2. Performance Test: Test the performance of the app by assessing the load time, response time, and server response time.	GREEN	COMPLETED

Functional Test case report

Functional	Test Case Coverage (%)	Status
Module ID	30%	Not-Started / In-Progress / Completed
1.MAIN PAGE INTERFACE	80%	IN-PROGRESS
2.SECURITY	60%	IN-PROGRESS
3.RESTAURANT CHOOSING/ANALYSIS	50%	IN-PROGRESS
4.DELIVERY MANAGEMENT	35%	NOT-STARTED
5.PAYMENT GETAWAY	45%	IN-PROGRESS

Result:

Thus, the test case report has been created for the BAGpacker.



SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	13				
Title of Experiment	Provide	the amework/Imp	details	of	Architecture
Name of the candidate	Raunak Sh		iomentation		
Team Members	Bhavya M	alhotra (RA2	111003010951	.)	
Register Numbers	RA211100	3010935			
Date of Experiment	25/04/2023	3			

Mark Split Up

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

Aim

To provide the details of architectural design/framework/implementation

Team Members:

Register No	Name	Role
RA2111003010951	Bhavya Malhotra	Rep/Member
RA2111003010935	Raunak Sharma	Member
	RA2111003010951	RA2111003010951 Bhavya Malhotra

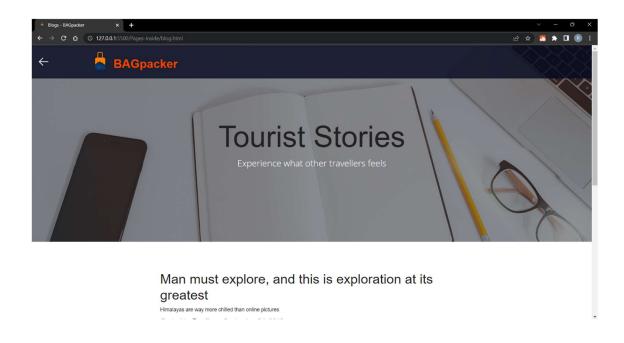
Project Title: BAGpacker

Architectural Design:

1) Home Page



2) Blog Page



3) Services Page



4) Destination Page



Source Code:

Index.html

```
Start Header Area
      <header class="default-header">
          <nav class="navbar navbar-expand-lg navbar-light">
                 <a class="navbar-brand" href="index.html">
                    10px;">BAGpacker
                 <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
                    data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
                    aria-expanded="false" aria-label="Toggle navigation">
                    <span class="text-white lnr lnr-menu"></span>
                    id="navbarSupportedContent">
                        <a href="./Pages-inside/blog.html">Blogs</a>
                        <a href="#service">Services</a>
<a href="./Pages-inside/About.html">About Us</a>

                        <a href="./Pages-inside/About.html">CONTACT</a>
       <!-- End Header Area -->
          <div class="overlay overlay-bg"></div>
             <div class="row fullscreen d-flex align-items-center justify-content-center">
                 <div class="banner-content col-lg-10">
                    <h5 class="text-uppercase">Be the part of this Wonderful Journey</h5>
                       Incredible India!
                    <a href="#portfolio" class="primary-btn text-uppercase">Explore Now</a>
       <!-- End banner Area -->
       <section class="portfolio-area section-gap" id="portfolio">
          <div class="row d-flex justify-content-center">
                 <div class="menu-content col-lg-10">
                        <h1 class="mb-10">You'll fall in love with India</h1>
                        Explore India from Kashmir to Kaniyakumari
             <div class="filters">
                    All
                    North
                    Central
                    North-Eastern
                    South
                 <div class="row grid">
     <div class="single-portfolio col-sm-4 all portal">
                        <div class="item"</pre>
```

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        <div class="cat">Delhi</div>
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       <div class="cat">Panaji</div>
<div class="single-portfolio col-sm-4 all corporate">
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       <a href="https://en.wikipedia.org/wiki/Gujarat">
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           <div class="p-inner">
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       <div class="cat">Gandhinagar</div>
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<div class="single-portfolio col-sm-4 all corporate">
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           <img src="img/himachal.jpg" class="p-img" alt="Work 1">
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               <h4>Himachal Pradesh
       <div class="cat">Shimla</div>
<div class="single-portfolio col-sm-4 all corporate">
   <div class="item";</pre>
       <a href="https://en.wikipedia.org/wiki/Jammu_and_Kashmir_(union_territory)">
           <img src="img/jammu.jpg" class="p-img" alt="Work 1">
           <div class="p-inner"
               <h4>Jammu & Kashmir
       <div class="cat">Srinagar</div>
<div class="single-portfolio col-sm-4 all personal">
        <a href="https://en.wikipedia.org/wiki/Jharkhand">
           <img src="img/jharkhand.jpg" class="p-img" alt="Work 1">
           <div class="p-inner">
               <h5>Jharkhand
       <div class="cat">Ranchi</div>
<div class="single-portfolio col-sm-4 all portal">
       <a href="https://en.wikipedia.org/wiki/Karnataka">
           <img src="img/karnataka.webp" class="p-img" alt="Work 1">
            <div class="p-inner"
```

```
<h4>Karnataka
        <div class="cat">Banglore</div>
<div class="single-portfolio col-sm-4 all portal">
        <a href="https://en.wikipedia.org/wiki/Kerala">
            <div class="p-inner">
                <h4>Kerala
       <div class="cat">Thiruvanthapuram</div>
<div class="single-portfolio col-sm-4 all personal">
       <a href="https://en.wikipedia.org/wiki/Madhya_Pradesh">
            <img src="img/madhya pradesh.jpg" class="p-img" alt="Work 1">
            <div class="p-inner
                <h4>Madhya Pradesh
       <div class="cat">Bhopal</div>
<div class="single-portfolio col-sm-4 all portal">
    <div class="item"
            <img src="img/maharasthra.cms" class="p-img" alt="Work 1">
            <div class="p-inner">
                <h4>Maharasthra
       <div class="cat">Mumbai</div>
<div class="single-portfolio col-sm-4 all agency">
   <div class="item"
           <img src="img/manipur.jpg " class="p-img" alt="Work 1">
                <h4>Manipur
        <div class="cat">Imphal</div>
<div class="single-portfolio col-sm-4 all agency">
   <div class="item";</pre>
        <a href="https://en.wikipedia.org/wiki/Meghalaya">
           <img src="img/meghalaya.jpg" class="p-img" alt="Work 1">
            <div class="p-inner">
                <h4>Meghalaya
       <div class="cat">Shillong</div>
<div class="single-portfolio col-sm-4 all agency">
   <div class="item":</pre>
        <a href="https://en.wikipedia.org/wiki/Mizoram">
            <img src="img/mizoram.jpg" class="p-img" alt="Work 1">
            <div class="p-inner">
                <h4>Mizoram
       <div class="cat">Aizwal</div>
<div class="single-portfolio col-sm-4 all agency">
```

```
<div class="item"
       <a href="https://en.wikipedia.org/wiki/Nagaland">
           <img src="img/nagaland.jpg" class="p-img" alt="Work 1">
           <div class="p-inner">
               <h4>Nagaland
       <div class="cat">Kohima</div>
<div class="single-portfolio col-sm-4 all portal">
       <a href="https://en.wikipedia.org/wiki/Odisha">
           <img src="img/Odisha.jpg" class="p-img" alt="Work 1">
            <div class="p-inner">
               <h5>Odisha
       <div class="cat">Bhubaneshwar</div>
<div class="single-portfolio col-sm-4 all corporate">
   <div class="item"
       <a href="https://en.wikipedia.org/wiki/Punjab, India">
           <img src="img/punjab.jpg" class="p-img" alt="Work 1">
               <h4>Punjab
       <div class="cat">Chandigarh</div>
<a href="https://en.wikipedia.org/wiki/Rajasthan">
           <img src="img/rajasthan.jpg" class="p-img" alt="Work 1">
           <div class="p-inner">
               <h4>Rajasthan
       <div class="cat">Jaipur</div>
<div class="single-portfolio col-sm-4 all corporate">
    <div class="item"
       <a href="https://en.wikipedia.org/wiki/Sikkim">
           <img src="img/sikkim.jpg" class="p-img" alt="Work 1">
           <div class="p-inner">
               <h4>Sikkim
       <div class="cat">Gangtok</div>
<div class="single-portfolio col-sm-4 all portal">
   <div class="item":
       <a href="https://en.wikipedia.org/wiki/Tamil_Nadu">
           <img src="img/tamilnadu.webp" class="p-img" alt="Work 1">
               <h4>Tamil Nadu
       <div class="cat">Chennai</div>
<div class="single-portfolio col-sm-4 all portal">
   <div class="item":
        <a href="https://en.wikipedia.org/wiki/Telangana">
           <img src="img/telangana.jpg" class="p-img" alt="Work 1">
           <div class="p-inner">
               <h4>Telangana
        <div class="cat">Hyderabad</div>
```

```
<div class="single-portfolio col-sm-4 all agency">
   <div class="item":</pre>
       <a href="https://en.wikipedia.org/wiki/Tripura">
            <img src="img/tripura.jpg" class="p-img" alt="Work 1">
            <div class="p-inner">
               <h4>Tripura
        <div class="cat">Agartala</div>
<div class="single-portfolio col-sm-4 all corporate">
       <a href="https://en.wikipedia.org/wiki/Uttarakhand">
           <img src="img/uttrakhand.cms" class="p-img" alt="Work 1">
<div class="p-inner">
               <h4>Uttrakhand
       <div class="cat">Dehradun</div>
<div class="single-portfolio col-sm-4 all corporate">
    <div class="item":
        <a href="https://en.wikipedia.org/wiki/Uttar_Pradesh">
            <div class="p-inner">
               <h4>Uttar Pradesh
        <div class="cat">Lucknow</div>
<div class="single-portfolio col-sm-4 all personal">
       <a href="https://en.wikipedia.org/wiki/West Bengal">
            <img src="img/west bengal.webp" class="p-img" alt="Work 1">
            <div class="p-inner">
               <h4>West Bengal
       <div class="cat">Kolkata</div>
<!-- End portfolio-area Area -->
<section class="service-area section-gap relative" id="service">
   <div class="overlay overlay-bg"></div>
    <div class="container">
            <div class="menu-content pb-60 col-lg-10">
                <h1 class="mb-10 text-white">Always in our customer Favour</h1>
                   Who are always with tight Budget
```

```
<section class="services-area pb-100">
       <div class="container">
               <div class="col-lg-4">
                    <div class="single-service">
                        <img class="img-fluid" src="img/s1.png" alt="">
                        <h4>Activities and tours</h4>
                           It offer users the different option to tours and activities at their travel
destinations, such as city tours, adventure activities, cultural experiences, and more.
               <div class="col-lg-4">
                    <div class="single-service">
                       <img class="img-fluid" src="img/s2.png" alt="">
                        <h4>Destination guides</h4>
                            In addition to travel guides this travel websites may offer comprehensive
destination guides that provide users with information about the best restaurants, attractions, and other local
recommendations.
                <div class="col-lg-4">
                   <div class="single-service">
                       <img class="img-fluid" src="img/s3.png" alt="">
                       <h4>Travel blogs and articles</h4>
                          Some travel websites may feature blogs or articles written by travel experts,
offering tips and advice on travel planning, destinations, and experiences.
    <!-- End services Area -->
    <!-- Start review Area -->
    <section class="review-area section-gap" id="testimonial">
                <div class="menu-content pb-60 col-lg-10">
                    <div class="title text-center">
                       <h1 class="mb-10">How Our Customers felt for Us</h1>
                       Who are in extreme love with friendly & inviting people
            <div class="row">
               <div class="col-lg-6">
                    <div class="single-review">
                       <img src="img/r2.jpg" alt="">
                        <div class="title d-flex flex-row">
                            <a href="#">
                               <h4>Varun Agarwal</h4>
                            <div class="star">
                                <span class="fa fa-star checked"></span>
                           It was a life Experience to visit such a beautiful cultural country.
                    <div class="single-review">
                        <img src="img/r3.jpg" alt="";</pre>
```

```
<div class="title d-flex flex-row">
                            <a href="#">
                               <h4>Himanshu Sharma</h4>
                            <div class="star">
                                <span class="fa fa-star checked"></span>
                            Just one Word - Incredible!
                <div class="col-lg-6">
                    <div class="single-review">
                            <a href="#":
                               <h4>Quinn</h4>
                            <div class="star">
                                <span class="fa fa-star checked"></span>
                            Damm! I'm thinking of staying here in this World.
                    <div class="single-review">
                        <div class="title d-flex flex-row">
                            <a href="#">
                               <h4>Joe Goldberg</h4>
                                <span class="fa fa-star checked"></span>
                                <span class="fa fa-star checked"></span>
                            Now, I am big fan of Power Yoga. Thanks for such a gift to this world.
    <footer class="footer-area section-gap">
       <div class="container">
               <div class="col-lg-5 col-md-6 col-sm-6">
                    <div class="single-footer-widget">
                        <h6>About Us</a></h6>
                            We Provide Tour Plans for your most comfortable travel ever. Let yourself dive into
the
                            Beauty, Culture & festivals of India. Have Your Good time at India.
```

```
Copyright ©
                           <script>document.write(new Date().getFullYear());</script> All rights reserved</a>
               <div class="col-lg-2 col-md-6 col-sm-6 social-widget">
                   <div class="single-footer-widget">
                       <h6>Follow Us</h6>
                       Let us be social
                           <a href="#"><i class="fa fa-facebook"></i></a>
                           <a href="https://twitter.com/Raunak_Sharma24"><i class="fa fa-twitter"></i></a>
                           <a href="https://t.snapchat.com/58uwU4DI"><i class="fa fa-snapchat"></i></a>
                           <a href="https://www.instagram.com/theraunaksharma_/"><i class="fa fa-</pre>
instagram"></i></a>
   <script src="js/vendor/jquery-2.2.4.min.js"></script>
   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"</pre>
       integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
       crossorigin="anonymous"></script>
   <script src="js/vendor/bootstrap.min.js"></script>
   <script src="js/easing.min.js"></script>
   <script src="js/jquery.ajaxchimp.min.js"></script>
   <script src="js/jquery.magnific-popup.min.js"></script>
   <script src="js/jquery.nice-select.min.js"></script>
   <script src="js/parallax.min.js"></script>
   <script src="js/isotope.pkgd.min.js"></script>
```

Result:

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

CONCLUSION

In conclusion, online travel websites have become an indispensable tool for travelers worldwide, offering a convenient and efficient way to search, compare, and book travel products and services. These websites provide a wealth of information and options, allowing users to tailor their travel plans to their individual preferences and budget. However, to remain competitive, travel websites need to continue to evolve and innovate, offering new features and services that cater to the changing needs and expectations of users. Ultimately, the success of online travel websites dependson their ability to provide a seamless and personalized user experience that inspires trust and loyaltyamong travelers.

Furthermore, online travel websites are not only beneficial for individual travelers but also for businesses in the travel industry. These websites provide a platform for travel suppliers such as airlines, hotels, and car rental companies to reach a wider audience, increase their visibility, and improve their booking processes. By partnering with online travel websites, these suppliers can tapinto new markets and leverage the latest technologies to provide a better customer experience. Additionally, online travel websites can help travel agents and tour operators streamline their operations and expand their reach, allowing them to serve more customers and grow their business.

However, the growth of online travel websites has also raised concerns about the impact on traditional travel agents and suppliers. As more travelers turn to online travel websites to book their travel, the role of traditional travel agents may become less relevant.

Additionally, some travel suppliers may struggle to compete with the lower prices and wider range of options offered by online travel websites. As the industry continues to evolve, it will be important to balance the benefits of online travel websites with the need to support traditional suppliers and ensure a level playing field for all businesses in the travel industry.

In summary, online travel websites have transformed the way people plan and book their travel, offering a range of benefits to users and suppliers alike. However, as with any disruptive technology, there are both opportunities and challenges associated with the growth of online travel websites. As the industry continues to evolve, it will be important to address these challenges and find ways to ensure that online travel websites continue to provide value to travelers and the broader travel industry.

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APPENDIX

Source Code

```
© File Edit Selection View Go Run Terminal Helip reduction - AC | Content of AC | Content of
```

