PROJECT REPORT

ON

# ECOMMERCE SALES

SUBMITTED FOR PARTIAL FULFILLMENT OF AWARD OF

## MASTERS OF COMPUTER APPLICATION (MCA)

**BY:**

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MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES

(DEEMED TO BE UNIVERSITY)

FARIDABAD, HARYANA

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### DECLARATION

I do hereby declare that project work entitled “ECOMMERCE SALES” submitted by me for the partial fulfillment of the requirement for the award of **Masters of computer application (MCA)** is a record of my own work. The report embodies the finding based on my study and observation and has not been submitted earlier for the award for any degree or diploma to any

Institute or University.

SIGNATURE

Name: GAUTAM YADAV

Roll No: **(24/SCA/MCA/017)**

Date: 15/07/2025

### CERTIFICATE

This is to certify that the project report entitled “ECOMMERCE SALES” submitted in partial fulfillment of the degree of Masters in computer application **(MCA)** to Manav Rachna International Institute of Research & Studies, Faridabad, Haryana is carried out by Mr. Gautam Yadav, Roll No. **(24/SCA/MCA/017)** under my guidance.

Signature of the Guide

Name: Dr. Parul Gandhi

Designation: Professor

Date:

Head of the Department (HoD) Name: Dr. Suhail Javed Quraishi

Date:

### ACKNOWLEDGEMENT

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This opportunity is a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, to attain desired career objectives. I hope to continue cooperation with all of you in the future.

### ABSTRACT

This project report presents an in-depth analysis of ECOMMERCE SALES data using Microsoft Power BI. The primary objective is to identify key patterns, trends, and factors contributing to ECOMMERCE SALESs, with the goal of supporting data-driven decision-making for road safety improvements.

The study uses a comprehensive dataset containing information such as accident locations, time of occurrence, types of vehicles involved, severity, weather conditions, and casualty details. Power BI’s data modeling and visualization capabilities are leveraged to transform raw data into interactive dashboards that highlight critical insights, such as accident hotspots, peak accident times, and correlations between road conditions and accident frequency.

The interactive dashboard enables stakeholders — including traffic authorities, urban planners, and policy-makers — to filter and drill down into specific accident parameters, allowing for focused investigation and strategic interventions. The findings can help in formulating better traffic management policies, designing safer road infrastructures, and launching targeted awareness campaigns.

In conclusion, this project demonstrates how Power BI can be effectively used to analyze ECOMMERCE SALES data, uncover hidden trends, and contribute towards enhancing road safety through informed actions.

### I. PROJECT INTRODUCTION

Welcome to my Personal Portfolio Website, a carefully crafted digital space designed to showcase my skills, projects, and professional journey. Developed using HTML, CSS, and JavaScript, this website serves as an engaging platform to present my capabilities to a global audience and connect with potential collaborators, employers, and like-minded individuals. **About Me:**

At the heart of this website is a comprehensive "About Me" section that provides a glimpse into my background, experiences, and aspirations. Through a compelling introduction, I share my passion for my chosen field and offer insights into the journey that has shaped me both personally and professionally.

**Projects Showcase:**

One of the highlights of this portfolio is the "Projects" section, where I proudly display a curated selection of my work. Each project is accompanied by captivating images, detailed descriptions, and, in some cases, interactive elements powered by JavaScript. This showcase is a testament to my creativity, problem-solving abilities, and technical expertise.

**Homepage:**

The homepage serves as a dynamic gateway to the different facets of my portfolio. It features an aesthetically pleasing design and user-friendly navigation, allowing visitors to explore my work and achievements effortlessly. The seamless integration of HTML, CSS, and JavaScript ensures a responsive layout that adapts seamlessly to various devices.

**CV Button:**

For a comprehensive overview of my qualifications and professional background, the website includes a prominent "CV" button. With a single click, visitors can access and download my detailed curriculum vitae, providing them with a deeper understanding of my academic achievements and work experiences.

**Social Redirects:**

To facilitate meaningful connections and networking, I have integrated social media redirects into the website. Visitors can easily find and engage with me on various social platforms, fostering a community of professionals and creatives.

**Conclusion:**

This Personal Portfolio Website, thoughtfully developed with HTML, CSS, and JavaScript, is a reflection of my passion, dedication, and commitment to my craft. As a dynamic showcase of my skills and projects, it opens doors to new opportunities and collaborations.

### AIM

**The aim of a project is to provide a professional and engaging online platform for individuals to showcase their skills, accomplishments, and work to a global audience.**

**The primary objectives of a personal portfolio website are:**

1. **Showcasing Skills and Expertise: The website serves as a showcase of the individual's skills, talents, and expertise in their chosen field. It allows them to present a comprehensive overview of their abilities, professional strengths, and areas of specialization.**

1. **Displaying Projects and Work Samples: A personal portfolio website offers a dedicated space to exhibit the individual's past projects, creative works, and professional accomplishments. Through visually appealing and well-documented project showcases, visitors gain insights into the quality and diversity of the individual's work.**

1. **Creating a Professional Online Presence: The website acts as a digital resume and an extension of the individual's professional identity. It allows them to present themselves in a polished and professional manner to potential employers, clients, collaborators, and peers.**

1. **Building Credibility and Trust: By providing a platform to highlight their achievements and experiences, a personal portfolio website builds credibility and trust among visitors. It helps establish the individual as a competent and reliable professional in their field.**

1. **Facilitating Networking and Collaboration: The website enables easy communication and networking opportunities. With contact information readily available, visitors can connect with the individual for potential collaborations, job offers, or freelance opportunities.**

1. **Reaching a Global Audience: A personal portfolio website breaks geographical barriers, allowing the individual's work and accomplishments to reach a global**

### OBJECTIVE

1. Showcase Skills and Expertise: The primary objective of a personal portfolio website is to showcase the individual's skills, talents, and expertise in their chosen field. It serves as a platform to highlight their capabilities and demonstrate their proficiency to potential employers, clients, collaborators, and peers.

1. Display Projects and Accomplishments: The website aims to display a curated selection of the individual's projects, creative works, and professional accomplishments. By presenting tangible examples of their past work, the portfolio builds credibility and illustrates the quality of their output.

3.Create a Professional Online Presence: A personal portfolio website establishes a professional online presence for the individual. It acts as a digital resume and extends their professional identity beyond traditional means, providing a polished and accessible overview of their qualifications and achievements.

4. Build Credibility and Trust: Through the display of past projects and client testimonials, the portfolio website aims to build credibility and trust among visitors. This fosters confidence in the individual's abilities and reliability as a professional in their field.

5.Facilitate Networking and Collaboration: The website enables easy communication and networking opportunities. With contact information readily available, visitors can connect with the individual for potential collaborations, job opportunities, or freelance work.

In summary, the objective of a personal portfolio website is to serve as a powerful tool for professionals, freelancers, and creatives to showcase their skills, projects, and accomplishments, fostering credibility, expanding opportunities, and enhancing their career prospects.

### II. SYSTEM STUDY

1. **User Requirements Analysis:** As part of the initiative, individuals and organisations will be asked to contribute their user requirements for collection and analysis. To make sure the system fulfils the requirements and expectations, this will entail performing surveys, interviews, and focus groups.

1. **System Design:** Based on user specifications, the system will be created to offer workers and organisations a straightforward and understandable user interface. Volunteer registration, profile administration, chance discovery and application, event calendar, communication tools, and organisation-specific reporting powers will all be crucial features.

1. **Development and Implementation:** A appropriate technology stack will be used to create the volunteer gateway system, guaranteeing scale, security, and simplicity of upkeep. Agile development methods will be used to enable incremental enhancements and prompt feature release. The system will be housed on a cloud server to guarantee good speed and availability.

1. **Testing and Quality Assurance:** The system will go through extensive testing to make sure all features work as designed and satisfy the necessary specifications. Unit, integration, and user approval testing will all be carried out manually and automatically.

1. **Deployment and Support:** Following extensive testing and approval, the system will be made available to the intended audience. Any problems, bugs, or improvements that may surface after release will be addressed continuously. This covers routine system upkeep, customer assistance via email, phone, and online forums, as well as regular system updates.

1. **Training and paperwork:** Extensive training materials and paperwork will be created to guarantee the efficient use of the volunteer gateway system. This contains FAQs for workers and organisations as well as user manuals and instructional videos. Additionally, training workshops will be held for organisational employees to introduce them to the features and capabilities of the system.

### III. FEASIBILTY STUDY

A feasibility study for a personal portfolio website assesses the viability and practicality of developing and maintaining the website. It helps the website owner make informed decisions about whether to proceed with the project and identifies potential challenges and opportunities.

The key aspects examined in the feasibility study are as follows:

1. Technical Feasibility:

* Assess the technical capabilities and expertise of the website development team or individual to ensure they possess the necessary skills in HTML, CSS, JavaScript, and other relevant technologies.
* Evaluate the availability of suitable web hosting and domain registration services to ensure smooth website deployment and accessibility.

2. Economic Feasibility:

* Estimate the total cost of developing the website, including expenses for design, development, hosting, domain registration, and any third-party services or tools.
* Compare the projected costs with the potential benefits and returns the website can provide to determine if the investment is financially justified.

3. Operational Feasibility:

* Evaluate the operational aspects of maintaining the website, such as content updates, portfolio additions, and regular backups.
* Determine if the website owner or team has the necessary time and resources to manage the website effectively.

4. Legal and Ethical Feasibility:

* Assess whether the content and media used on the website comply with copyright laws and intellectual property rights.
* Ensure that the website adheres to ethical guidelines, data privacy regulations, and user consent requirements for any data collection.

5. Time Feasibility:

- Estimate the time required for the complete development and launch of the website, considering factors such as content creation, design, coding, testing, and deployment. - Determine if the timeline aligns with the website owner's expectations and any specific deadlines or events.

6. User Experience Feasibility:

* Evaluate the user experience (UX) aspects of the website design and navigation to ensure it meets the expectations of the target audience.
* Test the website's usability on various devices and browsers to ensure a seamless and engaging experience.

7. Market Feasibility:

* Analyze the competitiveness of the personal portfolio website market to understand the potential demand for such a website in the owner's niche or industry.
* Identify opportunities to differentiate the website from competitors and attract a target audience.

Based on the findings of the feasibility study, the website owner can make informed decisions about proceeding with the project, making necessary adjustments, or considering alternative approaches. A well-conducted feasibility study contributes to a successful personal portfolio website that fulfills the owner's objectives and resonates with its intended audience.

### IV. PROJECT MONITORING SYSTEM

Setting specific objectives, measuring development, recognising hazards, and fostering open communication among team members are all necessary for efficient project monitoring. Establish the project's goals, scope, and schedule first. Assign assignments to people or teams after breaking them down into smaller, more manageable parts. To see progress and deadlines, use project management tools like Gantt charts or software. Compare performance measurements with established expectations on a regular basis. Hold meetings to go through updates, issues, and goals again. Use risk management techniques to reduce possible problems. Encourage communication among team members and a collaborative environment. You can secure the project's success by remaining transparent and keeping a close eye on it.

### IV (a). GANTT CHART



### V. SYSTEM ANALYSIS

A substance is divided into parts for study, implementation, and in-depth examination through system analysis.

Prior to planning any framework it is vital that the idea of the business and the manner in which it at present works are plainly perceived. The specific information required for designing to ensure that all of the client's requirements are met is provided by the detailed examination. The feasibility study serves as the primary foundation for the investigation or study carried out during the analysis phase. Maybe it wouldn't be inappropriate to say that the examination and attainability stages cross-over. The feasibility study is the beginning of the high-level analysis. This is not the case, even though analysis is portrayed as a component of the system development life cycle (SDLC). Investigation starts with framework instatement and go on until its upkeep.

Indeed, even after fruitful execution of the framework, examination might assume its part for occasional support and up degree of the framework. One of the primary drivers of undertaking disappointments is lacking comprehension, and one of the primary drivers of insufficient comprehension of the necessities is the lack of common sense of framework examination.

### V (a). SOFTWARE SYSTEM ATTRIBUTES

1. **Reliability:** This application is a dependable product that quickly and accurately generates all of its output.

1. **Availability:** They will be able to use this programme, which will make carrying out their tasks easier.

1. **Security:** This application will be made in a way that makes it easy to maintain. New needs may be easily included into the various components.

### V (b). REQUIREMENT SPECIFICATION

1. **HTML:** HTML or Hypertext Markup Language is the standard markup language used to make site pages.

HTML is written in the form of tags enclosed in angle brackets (like <html>) that make up HTML elements. Most HTML tags are paired, like "<h1>" and "</h1>," but "<img>" and other tags that represent empty elements are unpaired. The start tag is the first tag in a pair, and the end tag is the second (also known as the opening tag or the closing tag). However not generally essential, it is best practice to add a cut to labels which are not matched with an end tag. A web browser reads HTML documents and transforms them into web pages that can be seen or heard. The HTML tags are used by the browser to interpret the page's content rather than being displayed. HTML portrays the construction of a site semantically alongside signals for show, making it a markup language as opposed to a programming language.

HTML components structure the structure blocks, everything being equal. HTML can be used to create interactive forms and embed images and objects. It gives a way to make organized reports by indicating primary semantics for text like headings, passages, records, connections, quotes and different things. It is able to embed JavaScript-based scripts that alter the behavior of HTML web pages.

1. **CASCADING STYLE SHEETS (CSS):** It is a template language utilized for depicting the look and designing of a report written in a markup language. While most frequently used to style website pages and connection points written in HTML and XHTML, the language can be applied to any sort of XML record, including plain XML, SVG and XUL. CSS is a foundation particular of the web and practically all pages use CSS templates to portray their show.

The primary purpose of CSS is to allow for the separation of a document's content from its presentation, which includes elements like the layout, colors, and fonts. This separation can make content more accessible, give specification of presentation characteristics more control and flexibility, let multiple pages share formatting, and make structural content less complicated and repetitive.

The same markup page can be presented in a variety of styles using CSS for a variety of rendering methods, including voice (when read out by a speech-based browser or screen reader) and tactile devices based on Braille. It can also be used to make it possible for the web page to look different on different devices or sizes of screens. Readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified, despite the fact that the author of a document typically links that document to a CSS file. However, the browser's default style will be used if neither the author nor the reader linked the document to a specific style sheet.

**JAVASCRIPT**

 JavaScript is the scripting language of the Web. All modern HTML pages are using JavaScript. A scripting language is a lightweight programming language.JavaScript code can be inserted into any HTML page, and it can be executed by all types of web browsers. JavaScript is easy to learn.

**WHY TO USE JAVASCRIPT?**

 JavaScript is one of the 3 languages all web developers must learn:

 HTML to define the content of web pages

 CSS to specify the layout of web pages

 JavaScript to specify the behavior of web pages

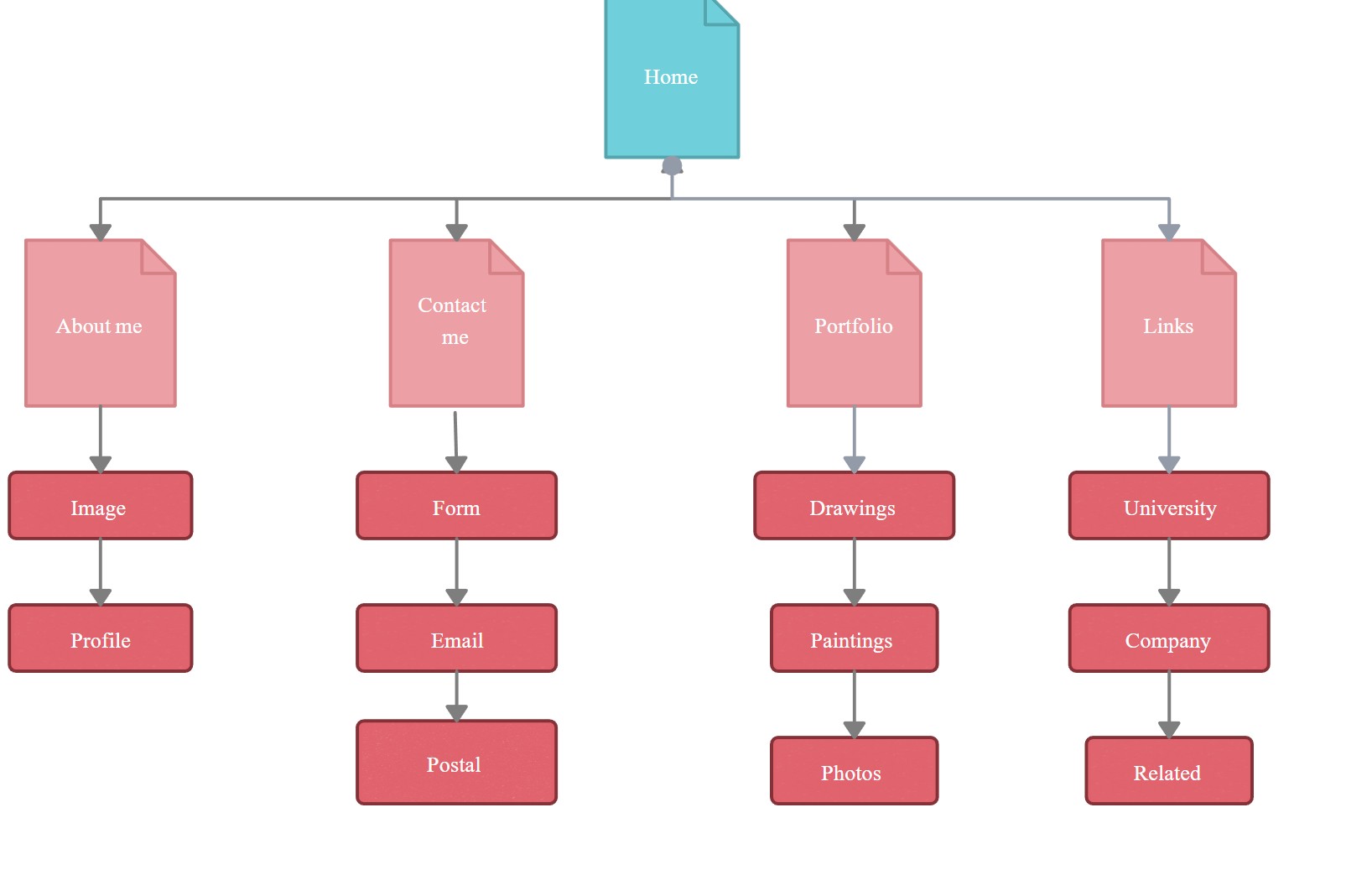
**JAVASCRIPT PROPERTIES**

 Properties are the values associated with a JavaScript object.

 A JavaScript object is a collection of unordered properties.

 Properties can usually be changed, added, and deleted, but some are read only.

### V (c). SYSTEM FLOWCHARTS



A diagram of a system's flow may be found above. Due to the way it illustrates how the system's key elements work together, the system flow chart is a useful presenting tool. It acts as a kind of system road map. The program's primary inputs and outputs are displayed in the system flow chart. The symbols' shapes reveal the different sorts of input or output devices.

1. POWER BI

Power BI is a business intelligence platform developed by Microsoft that allows users to visualize and analyze data. It transforms raw data into interactive dashboards and reports, enabling users to gain insights and make data-driven decisions. Power BI is used across various industries for data storytelling, analytics, and decision-making.

Key Features and Capabilities:

* **Data Visualization:**

Power BI offers a wide range of visual elements like charts, graphs, maps, and more to represent data in an understandable way.

* **Interactive Dashboards:**

Users can create interactive dashboards that allow for exploration and drill-down into the data.

* **Data Connectivity:**

Power BI can connect to various data sources, including Excel files, databases, cloud services, and more.

* **Data Transformation:**

It includes tools for cleaning, shaping, and transforming data to prepare it for analysis.

* **Sharing and Collaboration:**

Power BI enables users to share reports and dashboards with others, facilitating collaboration and data-driven decision-making.

* **AI-powered Insights:**

Features like Q&A and AI-powered insights help users discover hidden patterns and trends in their data.

* **Integration with Microsoft Fabric:**

Power BI is a core component of Microsoft Fabric, providing a comprehensive data analytics solution.

START

HOME PAGE

CLICK ON

3

LINES

IS MENU

SKILLS

IS MENU

ABOUT ME

IS MENU

CONTACT

HIRING NOW

IS MENU

ABOU

T

IS MENU

SOCIAL

REDIRECTS

IS MENU

DOWNLOAD CV

EXIT

STOP

### DFDs/ERDs (UPTO LEVEL 2)

The context diagram is the most abstract data flow representation of a system. It represents the entire system as a single bubble and. The various external entities with which the system interacts and the data flows occurring between the system and the external entities are also represented. The name context diagram is well justified because it represents the context in which the system is to exist i.e. the external entities (users) that would interact with the system and specific data items they would be receiving from the system.

###  CONTEXT LEVEL DFD

USER

PORTFOLIO

WEBSITE

COMPANIES

INFORMAT

ION

APPLICANTS

### VI. SYSTEM DESIGN

The system design of a personal portfolio website involves planning and defining the architecture, components, and functionalities of the website. It ensures that the website meets its objectives, provides an optimal user experience, and is scalable and maintainable. Below are the key components of the system design for a personal portfolio website:

1. Frontend Design:

* Choose the frontend technologies, such as HTML, CSS, and JavaScript, for the website's user interface and layout.
* Design the overall look and feel of the website, ensuring it aligns with the owner's personal branding and style.

2. Website Structure:

* Plan the website's structure and layout, including the home page, about page, skills page, projects page, contact page, and any additional sections.
* Define the navigation menu to ensure easy access to different sections of the website.

3. Responsive Design:

- Ensure the website is responsive, adapting seamlessly to various screen sizes and devices, such as desktops, tablets, and smartphones.

4. Content Management:

- Implement a content management system (CMS) or static site generator to manage and update the website content efficiently.

5. Projects Showcase:

* Design a visually appealing and organized layout to showcase the owner's projects and works.
* Implement image galleries, video embeds, and project descriptions for each portfolio item.

6. Skills and Expertise:

* Create a dedicated section to display the owner's skills, expertise, and areas of specialization.
* Consider visual representations, such as skill bars or tag clouds, to highlight skill proficiency.

7. About Me:

* Design the "About Me" section to present the owner's background, experiences, and career aspirations.
* Incorporate personal anecdotes and achievements to add a personal touch.

8. Contact Form and Social Media Integration:

* Implement a contact form to enable visitors to reach out to the website owner directly.
* Integrate social media links to connect visitors to the owner's social media profiles.

9. Performance Optimization:

* Optimize website performance for fast loading times and smooth user experience.
* Compress images, minify CSS and JavaScript files, and use caching techniques.

10. Security Measures:

* Implement security measures to protect the website from common vulnerabilities, such as cross-site scripting (XSS) and SQL injection.
* Use HTTPS encryption to secure data transmission.

11. Search Engine Optimization (SEO):

* Incorporate SEO best practices to improve the website's visibility in search engines.
* Use relevant keywords, meta tags, and descriptive URLs.

12. Analytics and Tracking:

* Set up website analytics, such as Google Analytics, to track visitor behavior and engagement.
* Use the insights to make data-driven decisions and improve the website's performance.

By carefully designing the system architecture and functionalities, the personal portfolio website can effectively showcase the owner's skills, projects, and accomplishments while providing an engaging and seamless user experience.

### VII. SYSTEM TESTING

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

System testing is a crucial phase in the development process to ensure that the personal portfolio website functions correctly and meets its intended objectives. The primary goal is to identify and rectify any issues before the website goes live. Here are the key aspects to consider during system testing:

**1) Preparation of Test Data**

Sample ECOMMERCE SALES data was prepared and validated for testing purposes. The dataset includes accident records with fields like location, time, vehicle type, severity, weather conditions, and casualties.

**2) Testing With Live Data**

The Power BI dashboard was tested with the actual dataset to verify that:

* All visuals reflect accurate accident counts.
* Filters and slicers correctly segment data by location, time, and severity.
* Drill-down features work as intended for detailed analysis.
* KPIs and charts update dynamically when filters are applied.

**3) Test Cases with Results**

| **Test Case ID** | **Description** | **Expected Result** | **Actual Result** | **Status** |
| --- | --- | --- | --- | --- |
| TC-01 | Filter by Accident Severity | Dashboard shows correct data for selected severity | Data displayed as expected | Pass |
| TC-02 | Filter by Location | Visuals show accidents for the selected area only | Accurate results | Pass |
| TC-03 | Time Drill-Down | User can drill from year → month → day | Drill-down hierarchy works | Pass |
| TC-04 | Weather Condition Filter | Accidents filtered by weather conditions | Data updates correctly | Pass |
| TC-05 | Data Refresh | Dashboard updates when new data is loaded | Data refresh successful | Pass |

4. Usability Testing:

* Evaluate the user experience by testing the website's ease of navigation and overall usability.
* Ensure that the website's design is intuitive, and users can easily find the information they need.

5. Performance Testing:

* Conduct performance testing to assess the website's loading speed and response times.
* Optimize images, CSS, and JavaScript to improve performance and reduce load times.

6. Content Verification:

- Check all textual content, including spellings, grammar, and formatting, to ensure accuracy and professionalism.

7. Form and Contact Testing:

* Test all forms on the website, such as the contact form, to ensure they submit data correctly and generate appropriate notifications.
* Verify that you receive emails or notifications when users submit contact forms.

8. Link Testing:

* Check all internal and external links to ensure they lead to the correct pages or external sources.
* Verify that links to downloadable files (e.g., PDF resume) are functioning correctly.

9. Security Testing:

* Implement security measures such as HTTPS to protect sensitive data and user privacy.
* Conduct security testing to identify potential vulnerabilities and address them.

10. Error Handling:

* Test the website's error handling mechanisms to ensure that users receive helpful error messages when encountering issues.
* Check for proper error handling in case of form validation errors or broken links.

11. Accessibility Testing:

- Evaluate the website's accessibility by testing it with assistive technologies like screen readers to ensure it is usable by individuals with disabilities.

12. Cross-Device Testing:

- Test the website on a variety of devices, including desktop computers, laptops, tablets, and smartphones, to ensure consistent performance and display.

13. Cross-Platform Testing:

- Verify the website's functionality on different platforms, including Windows, macOS, iOS, and Android.

Once the system testing phase is complete and all identified issues have been resolved, the personal portfolio website is ready for deployment. Regular maintenance and updates will be necessary to keep the website functioning optimally and up-to-date with new projects and experiences.

### VIII. SYSTEM IMPLEMENTATION

Implementation is the process of having system personal check out and provides new equipment‟s into use, train the user to install a new application and construct any files of data needed to use it.

System Implementation: Personal Portfolio Website

1. Domain and Hosting:

* Register a domain name that represents your personal brand or name.
* Choose a reliable web hosting service that meets your website's requirements.

2. Technology Stack Selection:

* Front-end: Decide on the front-end technologies you will use, such as HTML, CSS, and JavaScript, Power BI
* Front-end Framework: Consider using a framework like Bootstrap to speed up development and ensure responsiveness.
* Back-end (Optional): Determine whether you need a back-end to handle dynamic content.

If so, select a suitable server-side technology like Node.js, Django, or Ruby on Rails.

3. Website Structure and Navigation:

* Plan the website's structure, including the main pages (Home, About Me, Portfolio, Contact, etc.) and any subpages (individual project pages, etc.).
* Design a clear and user-friendly navigation menu to enable easy access to different sections.

4. UI/UX Design:

* Create wireframes and mock-ups to visualize the website's layout and design.
* Ensure a consistent and aesthetically pleasing user interface (UI).
* Focus on user experience (UX) by making the website intuitive and easy to navigate.

5. Responsive Design:

- Implement a responsive design to ensure the website looks great and functions well on various devices, including desktops, tablets, and smartphones.

6. Home Page Implementation:

* Develop the home page with a visually appealing hero section, including a profile picture and a catchy headline.
* Implement the "About Me" section to provide a concise summary of your background and skills.
* Add a section to highlight your core services or skills with relevant icons or graphics.
* Include a testimonial section to showcase positive feedback from clients or colleagues.
* Implement contact information, including an email address and links to social media profiles.
* Add a downloadable link to your resume or CV in PDF format.

7. Portfolio/Work Page Implementation:

* Design and develop a visually attractive portfolio page with a grid or carousel layout to showcase your projects or work samples.
* Create individual project pages with detailed descriptions, images, and any relevant links or references.
* Implement filtering or sorting options for users to easily browse through your projects.

8. Backend Implementation (Optional):

* If you require a back-end, set up the necessary server-side infrastructure and database.
* Connect the back-end with the front-end to enable dynamic content loading, such as adding or editing projects.

9. Testing and Bug Fixing:

* Conduct thorough testing to identify and resolve any issues or bugs in the website's functionality or design.
* Ensure cross-browser compatibility and validate the website's responsiveness.

10. Deployment:

* Upload the website files to the chosen web hosting service.
* Configure the domain settings to point to the hosting server.

11. Security:

- Implement necessary security measures to protect the website from potential threats, such as using HTTPS and keeping software up-to-date.

12. Maintenance and Updates:

* Regularly update your portfolio with new projects and experiences to keep it relevant.
* Monitor website performance and address any issues that arise.

By following this system implementation process, you can create a well-designed and functional personal portfolio website that effectively showcases your skills and work to potential employers and clients.

### VIII (a). SYSTEM IMPLEMENTATION (HARDWARE / SOFTWARE)

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

|  |  |
| --- | --- |
| **NAME OF COMPONENT** | **SPECIFICATION** |
| RAM | MINIMUM 4GB |
| HARD DISK | 20 GB OR MORE |
| MONITOR | ANY MONITOR |
| MOUSE | ANY MOUSE |
| KEYBOARD | ANY KEYBOARD |
| PROCESSOR | MINIMUM PENTIUM |
| OPERATING SYSTEM | WINDOWS XP, 7, 8, 10, 11, LINUX, MAC |
| DATABASE | MYSQL |

### IX. DOCUMENTATION

1. Introduction:

The ECOMMERCE SALES Analysis project aims to create a professional online platform to showcase the skills, experiences, and projects of [GAUTAM YADAV]. This website serves as a digital resume and portfolio to impress potential employers, clients, and anyone interested in exploring [GAUTAM YADAV]'s work.

1. Objectives:

* Display [Your Name]'s professional skills and expertise prominently.
* Showcase selected projects with detailed descriptions and visuals.
* Provide a clear and intuitive user interface for easy navigation.
* Present contact information to facilitate communication.
* Create a responsive design to ensure optimal viewing across various devices.

1. Features:

3.1 Home Page:

* An attractive hero section with a profile picture and a compelling tagline.
* An 'About Me' section summarizing [Your Name]'s background, skills, and passions.
* A section listing the core services or skills [Your Name] offers, accompanied by relevant icons or graphics.
* Testimonials from satisfied clients or colleagues to establish credibility.
* Contact information, including an email address and links to social media profiles.
* A downloadable link to [Your Name]'s CV or resume in PDF format.

3.2 Portfolio/Work Page:

* A grid or carousel showcasing [Your Name]'s best projects or work samples.
* Individual project pages with comprehensive descriptions of each project, including the challenges faced, methodologies used, and the final outcome.
* An image gallery featuring high-quality visuals of each project's key aspects and stages of development.
* Links to live websites, GitHub repositories, or other relevant platforms for accessing the projects.
* Filtering or sorting options for users to easily browse through the projects.

4. Technologies Used:

* Front-end: HTML, CSS, JavaScript
* Front-end Framework: Bootstrap
* Back-end: (Optional, if applicable, mention the backend technologies used)
* Version Control: Git
* Hosting: (Specify the hosting platform or service used)

5. Design and Development Process:

* Explain the steps taken during the website's design and development, including wireframing, prototyping, and coding.
* Highlight any challenges faced during the process and how they were overcome.
* Mention any iterations made based on feedback from peers or potential users.

6. Responsiveness and Compatibility:

* Detail the steps taken to ensure that the website is responsive and compatible with various devices and browsers.
* Include screenshots from different devices and browsers to demonstrate responsiveness.

7. Future Improvements:

* Identify potential areas for improvement or additional features to enhance the website further.
* Discuss plans for updating the portfolio regularly with new projects and experiences.

8. Conclusion:

* Summarize the project's success in meeting its objectives and fulfilling [Your Name]'s vision for a professional portfolio website.
* Express any key takeaways or lessons learned during the development process.

9. References:

* List any external resources or tutorials used during the project's development.
* Include links to relevant websites, code repositories, or design inspiration sources.

10. Appendix (Optional):

- Provide additional documentation, code snippets, or project assets if deemed necessary.

The above documentation provides a comprehensive overview of the personal portfolio website project, its features, technologies used, development process, and future considerations. It serves as a valuable resource for understanding the project's scope and objectives, and can also aid in future updates and enhancements to the website.

### X. SCOPE OF THE PROJECT

Scope of a ECOMMERCE SALES Analysis(2 Pages):

1. Home Page:

* Introduction: A brief and engaging introduction that showcases your name, profession, and a headline that highlights your expertise or passion.
* Navigation: A clear and concise navigation menu that allows visitors to access different sections of your website easily.
* Hero Section: A visually appealing and professional hero section that includes a highquality profile picture and a call-to-action (CTA) button leading to your full portfolio or work samples.
* About Me: A concise and well-written "About Me" section that provides an overview of your background, skills, and interests. Keep it focused and relevant to your profession.
* Services/Skills: A section highlighting your key skills or services with short descriptions. Use icons or graphics to make it visually appealing and easy to understand.
* Testimonials: Showcase a couple of client testimonials or recommendations to build trust and credibility.
* Contact Information: Display your contact details, including email address and social media profiles, for potential clients or employers to get in touch.
* Resume/CV: Offer a downloadable link to your resume or CV in PDF format for those interested in knowing more about your experience.
* Footer: Include a footer with basic copyright information and links to your privacy policy and terms of service if applicable.

2. Portfolio/Work Page:

* Portfolio Showcase: Organize your work samples or projects in a visually appealing grid or carousel format, allowing visitors to click on each project for more details.
* Project Details: Create separate pages for each project, providing a detailed description of the work done, your role, technologies used, challenges faced, and the final outcome.
* Image Gallery: Include multiple high-quality images or screenshots showcasing the project's different aspects and stages of development.
* Project Links: If applicable, include links to live websites, GitHub repositories, or any other relevant platforms where the projects can be viewed or accessed.
* Filtering/Sorting: Implement filtering or sorting options to help users easily navigate and find specific types of projects or work samples.
* Back to Home: Provide an option to return to the home page or access the main navigation menu to explore other sections of the website.
* Call-to-Action: Include a prominent CTA that encourages visitors to contact you for inquiries, collaborations, or potential work opportunities.

Keep in mind that the scope of your personal portfolio website can be tailored to suit your specific needs and preferences. The above outline is a starting point, and you can add or modify elements depending on your professional background and the type of work you wish to showcase. Additionally, make sure your website is mobile-friendly, visually appealing, and easy to navigate to leave a positive impression on visitors.

### XI. BIBLIOGRAPHY

1. https://stackoverflow.com
2. https://w3schools.com
3. https://youtube.com
4. https://javatpoint.com
5. https://wikipedia.com