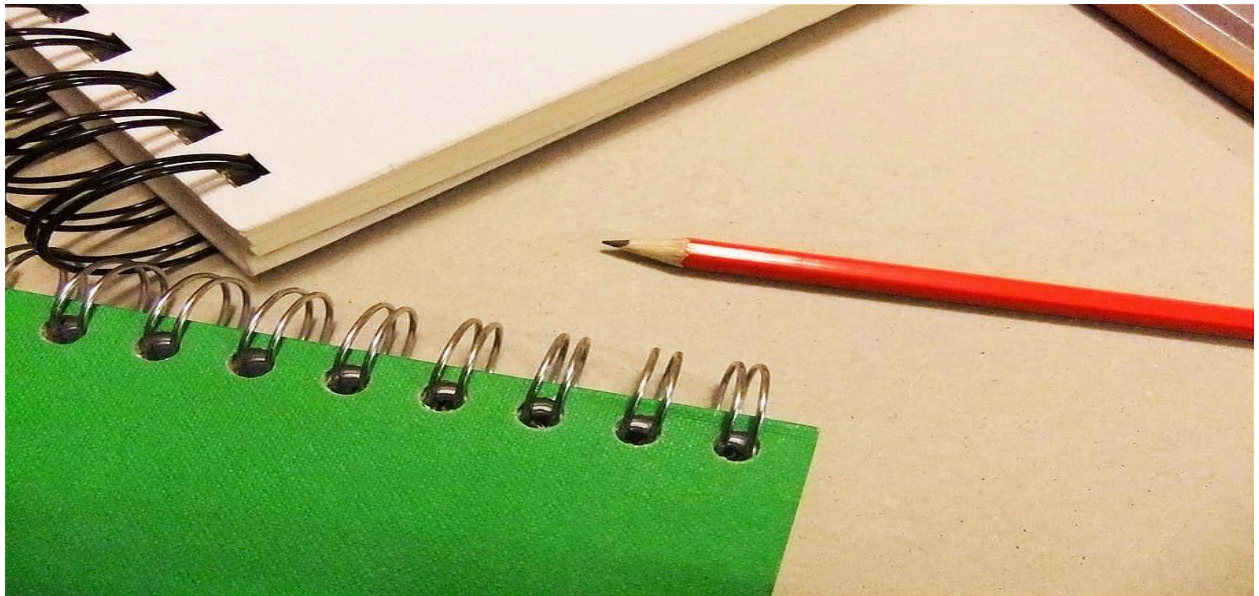


REQUIREMENT DOCUMENT

PROJECT - PORTFOLIO PAGE



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TABLE OF CONTENT

| | |
|------------------------------------|----|
| 1. Introduction..... | 3 |
| 1.1. Purpose..... | 3 |
| 1.2. Project Scope..... | 3 |
| 1.3. Definition..... | 4 |
| 2. Overview..... | 4 |
| 3. Biography..... | 5 |
| 4. Resume Web App..... | 5 |
| 5. AWS Development..... | 6 |
| 6. Technical Requirement..... | 7 |
| 6.1. Technologies to use..... | 7 |
| 6.2. Hosting..... | 8 |
| 7. Design Requirement..... | 9 |
| 7.1. Colours..... | 10 |
| 7.1.1. Colour Pallets..... | 10 |
| 7.2. Fonts..... | 10 |
| 8. Non-Functional Requirement..... | 11 |
| 8.1. Performance..... | 11 |
| 8.2. Usability..... | 12 |
| 8.3. Compatibility..... | 12 |
| 8.4. Security..... | 12 |
| 9. Conclusion..... | 13 |

1. INTRODUCTION

This project is about creating a personal portfolio website. The goal is to build an online space where I can showcase my work, skills, and experience which I have accomplished so far. Think of it as a digital resume. This project will help me in my future to know me through my qualifications and my skills.

This website will show my education background, my list of skills, and a simple way to contact me.

1.1 Purpose

The purpose of this project is to build a portfolio website where I can show my skills, projects, and experience.

I want this website to:

- Easy for people to understand me and my work and my accomplishments.
- Help me to find jobs while applying.
- And, also it will be an easy way for people to contact me.

1.2 Project Scope

The scope of this project is to create a personal portfolio website.

The website will include:

- **Homepage:** A brief introduction about me.
- **About Section:** Detail about my qualification, skills and experience.

- **Skill Section:** A list of tools, languages, and technologies.
- **Contact Section:** A way to Contact me directly.

This portfolio will be friendly, easy to navigate, and visually clean. It will be designed to load quickly, look professional, and work across all devices and browsers.

The website will be hosted online and accessible to anyone interested in learning more about me.

1.3 Definition

A portfolio page is a concise and visual representation of a resume. It is a unique way for an individual to show his/her education, work experience, skills and more in a compile way both academic and professional material.

A portfolio page often includes sections such as:

- A brief introduction
- A list of skills and experience
- A collection of past qualifications
- Contact information

The main goal of a Portfolio Page is to highlight a person's expertises in a professional and visually appealing way.

2. Overview

The main purpose of this project is to create a personal portfolio website. That will be an online platform where I can show my qualifications, skills and expertises. The website will focus on each and every small detail like - my qualification background, my skills, my expertises and a simple way to

contact me. It will be like an online resume that will help me stand out to employers or clients to give them a quick analysis about my experience.

3. Biography

The purpose of the biography is to know me properly, who i am, what i do, what are my specifications, and my qualification history. It is basically a brief explanation of who I really am in real life.

1. My name is Jashandeep Kaur Virk, I am a student by profession and going to pursue my masters in Cloud Computing from Dublin Business School of Ireland.
2. I have done my Bachelors in Computer Science Engineering from Uttarakhand Technical University of Dehradun in which I scored 71.2%.
3. And completed my schooling from Godwin Public School, Baheri where I scored 72.2% in class 12th and 65.6% in class 10th from CBSE Board.
4. I am good at problem solving, communication, leadership, management, and marketing.
5. My skills are computer science, cloud computing, software development, HTML, CSS and Java script.
6. I can speak three languages and they are English, Hindi and my mother tongue Punjabi.
7. I love to play games whether they are indoor or outdoor.

~~4. Resume Web Application~~

~~A resume web application is an online platform where anyone can create, manage, and share their digital resume. A resume web application provides a simple and user-friendly way to build a resume using varieties of templates, customization, and web-based features to make page more tempting.~~

Key features of a resume web application:

- **Template-based resume creation:** It is a very user friendly way where users can choose varieties of pre-designed templates according to them to make their resume more creative.
- **Customization:** In customization users can personalize their resumes by choosing different colour themes, font size, adding images, and adjusting layouts according to preferences.
- **Online access and storage:** As it is a web resume app which means web-based, so resumes will be stored online, which makes them easy to access and can be updated from anywhere, at any time.
- **Export Options:** Creating a web resume will help users to download it in various formats like in PDF, Word, or even in Open Document and can even open by direct via a link.
- **Data Security:** Web users provide data protection, ensuring that the personal details of an individual are secured.

One of the best Example of a web resume application is:

Linkedin: It allows you to create a resume directly on your linkedin profile, which can be shared and downloaded.

Why to use a web resume application?

The simple answer is that it has simple accessibility, easy to share, looks professional and can be updated anytime.

5. AWS Development

AWS stands for **Amazon Web Services**, which refers to the process of building, deploying, and managing applications and services, which include cloud computing platform offered by Amazon.

AWS provides a wide range of cloud-based services that helps developers or creators to create reliable and cost effective applications.

AWS offers:

- AWS helps to host your portfolio.
- Also improves performance and speed.
- Provides security from scammers.
- Helps to monitor and analyse.

6. What are Technical Requirement ?

Technical requirement refers to the specification of what needs to be there for a project to work properly. Basically, how the project should be built, and what technologies need to be used and how to make them work.

Key components of technical requirements are:

- **Software Requirement:** The tools, framework, programming languages, and libraries that help to build the project.
Example: Like HTML, CSS, JavaScript, Python, Django, jQuery, etc.
- **Hardware Requirements:** The physical hardware resources required to support the project.
Example: CPU, Memory, Storage, etc.
- **Network Requirements:** The necessary network infrastructure to work smoothly.
Example: Internet speed, Cloud services, Security protocols, etc.
- **Security Requirements:** The security needs to protect the project from unwanted sites.
Example: Encryption, Authentication, and Access control.

- **Performance Requirements:** This specifies how reliable and fast the system is.

Example: Response time

6.1 Technologies to use

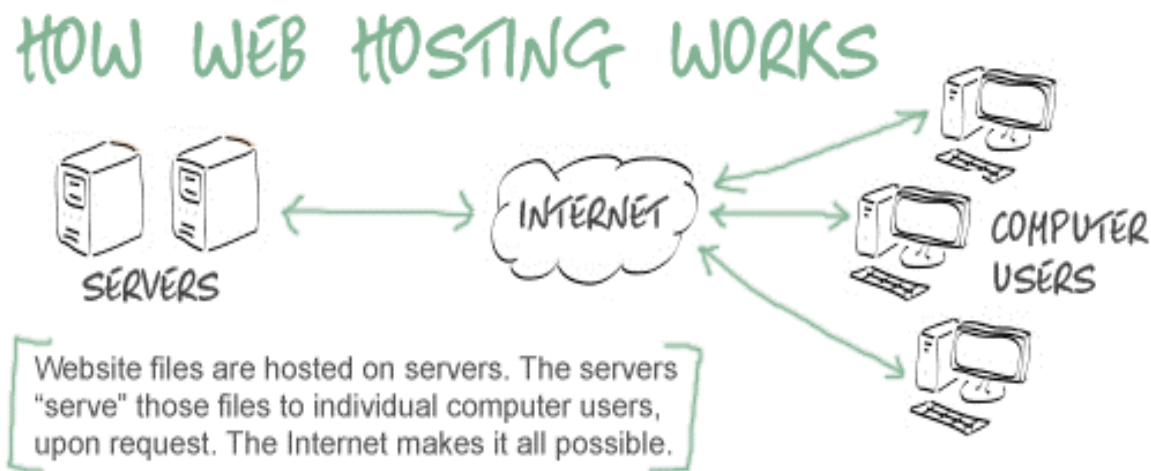
To build a portfolio page we require a combination of technologies that will complete a digital resume which will be easy to use and work with.

Here the technologies which we are using to build a portfolio page:

- **HTML:** HTML stands for HyperText Markup Language.
 - HTML is the “backbone” of every web application, it is used to give a structure to a webpage.
 - HTML is a frontend technology as it provides basic elements like- headings, paragraphs, links, images, and many other content.
 - HTML works as a foundation for other web technologies like CSS and JavaScript.
- **CSS:** CSS stands for Cascading Style Sheets.
 - CSS is used for “decoration” of a webpage as it makes a page look more organized and pretty.
 - CSS is used to select background colours, font size, and layouts.
- **JavaScript:** JavaScript is a programming language used to make webpage dynamic and interactive.
 - JavaScript enhances the animation of the web page.
 - It provides smooth scrolling between sections.
 - Javascript helps to fetch or display real-time data.

6.2 Hosting

Hosting means a service which is 24/7 available for users where anyone and any time can make or store web applications online by storing their files on a server.



Now, after creating a portfolio page we need a server where it can be hosted and accessible to others on the internet, for that i am using AWS (Amazon Web Service) because it is a trusted and free server and easy to use.

How Web Hosting works for a Portfolio Page ?

1. Create a Portfolio Page.
2. Choose a hosting service.
3. Upload files in it.
4. Then it will store files on a server.
5. Domain
6. And, then it will be accessible to everyone.

7. Design Requirements

In a portfolio page, design requirements should be simple, clean, clear, and user-friendly so that any one can understand it without any problem.

Things to focus on:

- **Simple:** Keep the page as minimalist to make it look professional.
- **Clean and Clear:** Use colors and fonts according to the theme.
- **User-Friendly:** Easy accessible, smooth scrolling and fast response.

7.1 Colors

Colors play a big role in portfolio page creation, it makes the page look professional, attractive, memorable. Colors are one of the ways for viewers to judge the web application by its way of looking, so it is very important to make the application presentable.

- First impressions matter a lot.
- The right colors make applications more professional.
- Bright and vibrant colours show creativity.
- Choose colors to highlight important topics.
- Choose colors that show your work and personality

7.1.1 Color Palette:

Color palette plays a vital role in making a website. It is very important to Keep color contrast as simple and clear so that no one gets trouble reading and understanding the context of the sentence.

1. **Primary color:** It attracts the viewer's attention or eye catching color.
Like: Blue or Pink
2. **Secondary color:** It supports the primary color. Like: Dark Blue or Purple.

- 3. Neutral color:** It keeps the background clean and readable. Like: White or Light Grey.

7.2 Fonts

Fonts plays a huge role in making a portfolio page, it focuses on how professional, stylish, and readable the application looks. The right font size makes the website feel creative and elegant.

- Fonts set the impression of the portfolio.
- It should be stylish and elegant.
- Use fonts to highlight important things.
- Pick maximum 2-3 fonts only.
- Use different font sizes for different headings.

8. Non-Functional Requirements

Non-Functional Requirements refers to how your system should work. It basically focuses on non-functional parts like quality, performance, security, and its usability.

It is important because:

- It improves the user experience means how fast, smooth and easy to use it is.
- It prevents errors and crashes.
- It protects personal data.

8.1 Performance

Performance means how fast and smooth a website or application runs. A well performing website loads quickly and responds in seconds. It is very

necessary that a website should be smooth because users don't like late responses which may lead to losing their interest in an application.

- Quick response time.
- Smooth animation.
- Runs on both phones and tablets.

8.2 Usability: Usability means how easy and efficient a website or application is because a good usability is simple to understand and work on.

- Simple, clear and easy to use.
- Should be accessible on phones, tablets and laptops.
- Should be fast.

8.3 Security

Security means protecting data from unwanted and unauthorized attacks. A secure website ensures that personal data of users stays safe.

- Protect personal data.
- Build high security.
- Use strong passwords.

8.4 Compatibility

Compatibility means that a website should work on different devices, browsers and systems without any buffer.

- A website should work smoothly on different platforms.
- No errors or buffers should occur.

9. Conclusion

In conclusion, the project is about a digital resume which is made with the help of three languages: HTML, JavaScript, and CSS and will be hosted on AWS with simple specifications and can be viewed by anyone at any time and also worked on non-functional technologies like on its performance, usability, security, and on its compatibility to run on different platforms. This project will also help me in future to showcase my talent to others and i learned a lot from this project.

Project Specifications

Project: Build a Web Application in AWS

Get three project ideas

1. Project Presentation (3 days)
2. Requirement DOCS (7 days)
3. Project Implementation (14 days)

* Give daily updates on google docs.

Start Date: 12/03/2025

Due Dates:

1. 14/03/2025 completed on 15/03/2025
2. 21/03/2025 completed on 01/04/2025 (sorry)
3. 04/04/2025

Thank You