
Software Requirements Specification

for

“PORTFOLIYO”

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Experiment No. 1

Introduction

Purpose

The purpose of a portfolio is to showcase an individual's skills, achievements, experiences, and work samples in a professional manner. It serves as a marketing tool for individuals, such as job seekers, freelancers, or entrepreneurs, to present themselves to potential employers, clients, or partners.

A portfolio can also demonstrate an individual's creativity, problem-solving abilities, and communication skills to others. It can help to establish their personal brand and reputation in their field.

In short, a portfolio provides a way for individuals to showcase their strengths and accomplishments and differentiate themselves from others. It is an essential tool for anyone looking to advance their career or business.

Document Conventions

- Title Page: The title page should contain the name of the portfolio, the date of the document, the name of the author, and the version number.
- The introduction should provide a brief overview of the portfolio, its purpose, and its intended audience.
- Introduction: The introduction should provide a brief overview of the portfolio, its purpose, and its intended audience.
- Functional Requirements: This section should outline the specific functions that the portfolio should be able to perform. It should include both functional and non-functional requirements.
- Use Cases: Use cases describe how the portfolio will be used by its intended audience. Each use case should include a description of the user's goal, the steps they will take to achieve that goal, and any potential issues that may arise.
- User Interface: This section should describe the user interface of the portfolio, including any design guidelines or standards that must be followed.
- Performance Requirements: This section should outline the expected performance of the portfolio, including response times, processing times, and any other performance metrics.
- Security Requirements: This section should outline any security requirements for the portfolio, including data encryption, user authentication, and authorization.
- Assumptions and Dependencies: This section should outline any assumptions made during the development of the portfolio, as well as any dependencies that the portfolio has on other systems

or components.

The conventions are not set in stone and can be modified to meet the specific needs of the portfolio and its intended audience.

Intended Audience and Reading Suggestions

Intended Audience:

- Potential employers
- Clients or collaborators
- Peers or students

Reading Suggestions:

- Potential employers:
- Tailor the portfolio content to the specific job, include relevant projects, add a resume or CV, and a cover letter
- Clients or collaborators: highlight best work and skills, include project descriptions, visuals, and results achieved, add a summary of skills and experience
- Peers or students: provide detailed information about projects and skills, include project descriptions, visuals, and technical details, add a reflection on the work and the process of creating the portfolio
- Overall, ensure the portfolio is well-organized, visually appealing, and easy to navigate. Ensure the intended audience can easily find the information they need and understand the creator's skills.

Product Scope

The scope of a portfolio can vary depending on the individual's goals and objectives. However, the primary scope of a portfolio is to showcase an individual's skills, experiences, and accomplishments in a professional manner.

Overall, the scope of a portfolio is to provide a comprehensive and professional representation of an individual's skills, experiences, and accomplishments that will help them achieve their goals and advance their career or business.

References

⇒ <https://www.w3schools.com>

⇒ <https://www.youtube.com>

⇒ <https://www.google.com>

Overall Description

Product Perspective

- **Purpose:** The purpose of the portfolio is to demonstrate the creator's skills and accomplishments to potential employers, clients, or collaborators. The portfolio should be designed to meet the needs of its intended audience and communicate the creator's unique strengths and expertise.
- **Features:** The portfolio should be well-designed, visually appealing, and easy to navigate. The key features of the portfolio may include the organization and layout, the types of projects included, and the way in which the creator presents their work. The portfolio should effectively highlight the creator's best work and demonstrate their abilities.
- **User Needs:** The portfolio's intended audience includes potential employers, clients, or collaborators. The portfolio should meet the needs of its target audience and provide them with the information they need to evaluate the creator's skills and experience. The portfolio should be tailored to the specific needs of the audience, whether it's showcasing work experience, technical skills, or creative abilities.
- **Maintenance:** The portfolio should be regularly updated and maintained to ensure that it remains current and relevant. The creator should periodically review the portfolio and add new projects or remove old ones as needed. The portfolio should reflect the creator's most recent work and accomplishments.

Product Functions

- **Demonstrate expertise:** This portfolio should effectively communicate the creator's skills and expertise in a specific field. It should showcase the creator's best work and demonstrate their ability to produce high-quality results.
- **Highlight achievements:** This portfolio should highlight the creator's achievements and accomplishments, including successful projects, awards, or recognition. This helps to establish credibility and build trust with potential employers or clients.
- **Showcase creativity:** the portfolio should showcase the creator's unique creative vision and style. It should demonstrate their ability to produce original and engaging work that stands out from the crowd.
- **Communicate professionalism:** The portfolio should communicate the creator's professionalism and attention to detail. It should be well-organized, visually appealing, and easy to navigate.
- **Tailored to audience:** The portfolio should be tailored to the specific needs and expectations of its intended audience. It should provide the information that potential employers or clients are looking for and effectively communicate the creator's value proposition.

User Classes and Characteristics



USE CASE DIAGRAM OF PORTFOLIO

Actors:

- i. Visitor: A person who visits the website but is not registered.
 - ii. Administrator: A person who manages the website and has special privileges.
- Visitors can view portfolios but cannot create, edit, or delete them until they register and become a registered user.
 - Registered users can create, edit, and delete their own portfolios, and view portfolios created by other registered users.

System Boundary:

- The system boundary in this use case diagram includes the website and its interaction with users who access it via a web browser or mobile device.

Use Cases:

- View Portfolio: All actors can view portfolios that have been created by registered users.
- Create Portfolio: Registered users can create a new portfolio.
- Edit Portfolio: Registered users can edit their own portfolios.
- Delete Portfolio: Registered users can delete their own portfolios.
- Search for Portfolios: All actors can search for portfolios based on keywords or categories.
- Manage Users: Administrators can manage user accounts.
- Manage Portfolios: Administrators can manage portfolios created by all users.
- Relationships:

Operating Environment

- Windows 2000
- Windows XP
- Windows VISTA
- Windows 7
- Windows 8
- Windows 10
- Mac OS X

Design and Implementation Constraints

This website is developed by the help of HTML, CSS, JavaScript in frontend and PHP for server-side MySQL for database in backend Xampp as virtual platform. It uses Xampp for its virtual platform. It uses friendly environment where all users are familiar.

User Documentation

- User manual

Assumptions and Dependencies

The website shall be hosted on a web server that supports PHP and MySQL. The website shall use third-party libraries and frameworks, such as Bootstrap and to speed up development and improve the user interface.

External Interface Requirements

Home Page

The home page will serve as the main entry point of the website. It will contain the following elements:

- A header section with the owner's name, logo, and navigation links to other pages.
- A hero section with a background image or video, a welcome message, and a call to action button.
- A section displaying the owner's skills, presented as icons or badges.
- A section showcasing the owner's latest projects, displayed as thumbnails or cards with brief descriptions and links to project pages.

About Page

The about page will provide more information about the owner's background, education, and experience. It will contain the following elements:

- A header section with a navigation link to the home page.
- A hero section with a background image or video, the owner's photo, and a brief introduction.
- A section displaying the owner's education, presented as a timeline with details.
- A section displaying the owner's experience, presented as a timeline with details.
- A section displaying the owner's awards, certificates, and achievements, represented as badges or icons.

Projects Page

The projects page will showcase the owner's work in more detail. It will contain the following elements:

- A header section with a navigation link to the home page.
- A hero section with a background image or video, a title, and a brief description.
- A section displaying the owner's projects, presented as cards with images, titles, descriptions, and links to live demos or GitHub repositories.

Contact Page

The contact page will enable visitors to contact the owner. It will contain the following elements:

- A header section with a navigation link to the home page.
- A hero section with a background image or video, a title, and a contact form.
- The contact form will include fields for name, email, subject, and message.
- A button to submit the form and send an email to the owner's email address.

Responsiveness

The website shall be responsive and display correctly on different devices, including desktops, laptops, tablets, and smartphones.

Hardware Interfaces

- Processor: core 2 duo
- Ram: 2Gb
- Hard disk: 150Gb

Software Interfaces

- Front-End: HTML, CSS, JavaScript
- Back-End: MySQL, PHP
- Localhost: Apache Server (XAMPP)
- OS: Windows 1

Communications Interfaces

You just have the internet connection to access our website from anywhere . There is no restriction on this website to a specific network protocol as long as the performance requirements are satisfied.

System Features

Homepage: The homepage of my portfolio is the first page that visitors see when they land on the website. It usually contains an introduction to the website, a brief description of the owner's skills and experience, and links to other pages on the website.

About Me: This page provides more detailed information about the website owner or team, including their background, experience, and interests.

Portfolio: The portfolio page is the main feature of a portfolio website. It showcases the owner's work and accomplishments, including examples of past projects, case studies, and testimonials.

Blog: Some portfolio websites also include a blog section where the owner can share their thoughts, ideas, and insights related to their industry or field of expertise.

Contact: The contact page provides visitors with a way to get in touch with the website owner or team. It usually includes a contact form, email address, phone number, and other relevant contact information.

Social Media Integration: Many portfolio websites include social media integration, allowing visitors to connect with the website owner or team on social media platforms such as LinkedIn, Twitter, or Instagram.

Responsive Design: A portfolio website should be designed to be responsive and mobile-friendly, meaning it can be easily accessed and viewed on various devices, including smartphones and tablets.

Analytics: Analytics tracking is essential for monitoring website traffic, user behavior, and other metrics related to website performance. Google Analytics or other similar tools can be integrated into the website to provide valuable insights into how visitors interact with the website.

Search Engine Optimization (SEO): SEO is a crucial system feature for portfolio websites to improve their visibility in search engine results pages. This includes optimizing the website's content, meta tags, and structure to improve its ranking and attract more visitors.

Security -

This is very important aspect of the design and should cover areas of hardware reliability, fall back procedures, physical security if the data. System design involves first logical design and then physical construction of the system.

Major Project Design Activities -

Several development activities are carried out during structured design. They are database design implementation planning, and system interface.

Design Process -

The system design process is an exercise of specifying how, the system will work. It is an interactive process which is based on what the system will be do as shown in the report. Mainly following two parts have been included in the system design process.

Other Nonfunctional Requirements

Performance Requirements

- It must be able to perform in adverse conditions
- Must have high data transfer rate

Safety Requirements

- Data which user enter must be correct
- Read terms and conditions carefully before booking
- Cross check the documents of staff

Security Requirements

- Your network should be protected
- Don't share your login id and password with anyone