

DEZAART, artist's digital portfolio  
System Requirements Specification

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## **1. Introduction**

### **1.1 Purpose of this Document**

This document is system requirements specification for DEZAART, an artist's digital portfolio. Its function is discussed in greater detail in the following sections.

### **1.2 Intended Audience**

This document is intended to be used by the product developers, testers, and project manager. It is also meant for the use of the product owner as the primary stakeholder.

### **1.3 Intended Use**

This document provides a full definition of the product's purpose and functionalities, whilst providing a description of the product's requirements in addition to listing all deliverable items in the product. Thus, it should provide an effective reference for its intended audience that can be reviewed as project development progresses.

### **1.4 Scope**

The scope is relatively limited, as it only constitutes a very minor project.

Below is a list of the product's success criteria.

- All requirements are fulfilled
- A functioning website is created.
- The website does not experience any issues or errors in its function after release.
- The website is able to be freely used by the product owner.

### **1.5 Definition of Risks**

Detailed here is a list of risks that may pose a hindrance to the product's development and completion, or negatively impact the development team during the development process, including recommendations for the development team that may mitigate any negative impacts.

Risk	Type	Description	Recommendation
Developers unable to work for personal reasons	Project	The developers either get sick, are affected by a natural disaster, or are influenced by any external circumstances that prevent them from working.	Adjust the project schedule to be flexible enough to account for unforeseen circumstances. Also practice good documentation to ensure nothing is lost during development delays

Developers lack skills and experience to create the product/ capabilities are overestimated.	Project, Product	As it is understood that it is the first time that the developers are working on a project of this type, there is a risk that development might face delays due to insufficient knowledge.	Ensure the developers do proper research for each of the project's requirements before starting on development, while collecting enough resources to ensure that no hiccups occur during the development.
Loss of progress	Project	Progress made on the project is lost for whatever reason	Regularly backup existing files, documenting the process.
There is insufficient time	Project, Product	This describes situations where the developers are behind on the project and will not be able to complete every goal before the deadline.	Make sure the developers focus on creating a minimum viable product that is at the very least functional, and fulfills all requirements, leaving the polishing for later.

## **2. Overall Description**

### **2.1 User Needs**

This product is a website that functions as an online artist's portfolio. It is to be used by two distinct groups- the website owner and website visitors, who function as primary and secondary users respectively.

Below is a table listing each intended user with a group of corresponding user stories.

User type	User story
Website Owner (primary user)	As an artist, I want to be able to make my art visible to people who view my website, and make the website look pleasing to any visitors.
	As an artist, I want potential clients to have a means of contacting me.
	As an artist, I want to encourage visitors to interact with and give their input on my work.
	As the website owner, I want to manage and control who views the website and interacts with it for security reasons.
	As the website owner, I want to ensure that user sessions are handled properly to maintain login security.

	As the website owner, it is in my best interest to ensure the information entered by visitors is kept protected and secure from malicious actors.
Website Visitor (secondary user)	As a website visitor, I want to have easy access to the content the website displays
	As a website visitor, I want to leave comments and input.
	As a potential client for the website owner, I want to have a convenient place to contact the artist.
	As a website visitor, I want to make sure my data is kept secure.

## 2.2 Assumptions and Dependencies

Provided are lists of conditions that are assumed to be true for the product's development, in addition to some factors that the product's success will be highly dependent on.

- The website is to be made for modern internet browsers, using modern technology.
- The website is non-commercial, and made for personal use.
- The project's scope is kept small so that it will be manageable for the inexperienced development team.
- The website will use HTML, CSS, and Javascript for its front end.
- The website will use PHP and MySQL for its back end.
- This website will be effective as long as support for the four aforementioned languages continues, which is safe to depend on.
- The website is to be hosted on a remote server, and will be subject to all advantages and disadvantages of doing so.

## 3. System Features and Requirements

### 3.1 Functional Requirements

Detailed here is the list of services the product provides to its users, derived from the list of user stories detailed earlier in this document. Each service is accompanied by a list of measures that provides a clear goal for the developers to follow.

Service	Measure
Image hosting	Website displays images uploaded by the site owner. Images are stored on the website itself.

Contact Us page	Website has a page containing the website owner's contact info.
Comments feature	Allows site visitors to leave comments.
Login and Sign Up features	Allows visitors to create an account. Allows visitors to log in with existing accounts.
Session handling	Ends sessions when a visitor logs out. Ends sessions when a visitor is inactive for a certain amount of time.

### 3.2 System Features

Detailed here are the functional requirements for the system in particular.

System Requirement	Measure
Server Access	Must be hosted on a remote server
Database Interfacing	Must be able to interface with a database with MySQL support, reading and writing to the database as required.
Database for comments	Needs a database to hold comment history. Comments are written to the database, and read from the database to display on the site.
Database for User Accounts	Needs a database to store all user accounts. User accounts are saved to, and accessed from a database.
Data Hashing	Encrypts information entered to the user accounts database. Decrypts that information when it needs to be accessed.

### 3.3 Nonfunctional Requirements

Detailed here is the list of requirements that are not concerned with the specific services of the product, yet are integral to its reliability and usefulness as a whole.

Property	Measure
Ease of use / Accessibility	Intuitive user interface Comprehensible user interface Proper amount of help windows is provided.

Reliability	Probability of service unavailability is low Rate of error or failure occurrence is low
Size	Must be lightweight enough to load on any browser
Portability	Supported on a number of target systems and devices
Speed and Responsiveness	Fast loading speed Fast user input response time Fast screen refresh time

#### **4. Deliverables**

Provided here is a list of all deliverable items pertaining to this product.

- Each individual file for the website.
  - HTML files for website content.
  - PHP files for backend interfacing.
  - CSS file for style and design
  - Javascript file for site functionalities,
- The images to be hosted on the website.
- Database info containing comments and user account information.