

Software Requirements Specification (SRS)

1. Project Title

Hand_Made - Online Platform for Selling Handmade Products

2. Introduction

Purpose

The purpose of this project is to develop a web-based e-commerce platform, Hand_Made, that allows artisans and small sellers to showcase and sell handmade products such as customized keychains, decorated gifts, plates, and photo frames. This system aims to provide customers with a smooth online shopping experience and enable sellers to manage their product listings efficiently.

Scope

The system will include modules for product browsing, product search and filtering, cart and checkout functionality, user authentication, admin dashboard to manage products and users, and basic order management. It will be developed using HTML, CSS, and Django for backend and database operations.

3. Functional Requirements

User Module:

- Users can register, log in, and view products.
- Users can add products to their cart and place orders.
- Users can view order history.

Admin Module:

- Admin can add, update, and delete products.
- Admin can view orders and manage users.

Product Module:

- Each product has a name, image, price, description, and stock quantity.
- Products can be filtered by category or price range.

Cart & Order Module:

- Users can add multiple products to their cart.
- Orders are confirmed and tracked.
- Payment gateway integration can be added later.

4. Non-Functional Requirements

Performance: The website should load within 3 seconds for broadband users.

Scalability: The system should handle increasing product and user data.

Security: Passwords are encrypted; admin routes are protected.

Usability: The UI should be clean, responsive, and intuitive.

Availability: Accessible 24/7 unless under maintenance.

Maintainability: Django ensures modular and maintainable backend code.

5. Hardware and Software Requirements

Hardware:

- Processor: Dual Core or higher
- RAM: 4 GB minimum
- Hard Disk: 500 MB minimum

Software:

- OS: Windows or Linux
- Frontend: HTML5, CSS3
- Backend: Django (Python)
- Database: SQLite
- Browser: Chrome / Firefox

6. User Classes and Characteristics

Customer: Can browse, add to cart, and order handmade products.

Admin: Can manage products, users, and orders.

7. Assumptions and Dependencies

- Stable internet connection required.
- SQLite will be used as the default Django database.
- Payment gateway can be added in future versions.
- Browser support is required for full functionality.