

# SYNOPSIS OF PROJECT

Project Title :- Craft-Verse

Project Type :- E-Commerce & Community Platform

Objective :-

The objective of the Craft-Verse Project is to create a dynamic online platform that seamlessly integrates an e-commerce marketplace with a vibrant community for artisans and craft enthusiasts. This platform aims to empower independent crafters by providing them with a digital storefront to showcase and sell their handmade products while making unique, handcrafted items accessible to a global audience.

Propose :-

The Craft-Verse Project propose a unique fusion of an e-commerce Marketplace and an interactive Creative hub, specifically designed for artisans and craft enthusiasts.

Unlike traditional online marketplace, CraftVerse will not only facilitate buying and selling but will also empower crafters with tools for custom order management, virtual craft workshops and customized product recommendations. A standout feature will be the "Craft-Connect" matchmaking system, which intelligently pairs buyers with artisans based on style preferences and customization needs. Additionally, the platform will integrate augmented reality (AR) previews, allowing buyers to visualize handmade items in their space before purchase. With a strong focus on community engagement, secure transactions, and mobile-first design, CraftVerse will redefine how handmade goods are bought, sold, and experienced in the digital world.

Technologies used :-

Frontend :- HTML, CSS, Javascript

Backend :- Java entity class,  
Hibernate, Thymeleaf.

Database :- MySQL.

Authentication :- Spring boot.

## System setup:-

- \* Installation & setup of database (MySQL / PostgreSQL)
- \* Installation & Setup of Java JDK
- \* Installation & System checking of VS code.
- \* Create a Spring Boot Project and set it up in VS code.
- \* Set up VS code with GitHub by initializing Git, connecting to a GitHub repository, and using the GitHub extension for version control.

# Task: Designing the Landing Page

1. Find templates for fonts, colors, themes and design.
2. Design a logo for the application
3. The landing page of the Craft-verse Project will be designed to provide an engaging, visually appealing and user-friendly experience. It will highlight the platform's purpose, key features, and showcase handcrafted products to attract users.

## \* Layout & Sections:-

1. Header (Navigation Bar)
  - Logo (Craft-verse)
  - Navigation Links: New Arrivals, Art & Craft, Brushed & Tools, Art Accessories, Stationery and Artworks.
  - Signin/Signup, wishlist, Cart Button.
  - Search Bar for quick access

## 5. Footer Section

- \* Quick Links (Privacy Policy, Terms of Use, FAQ)
- \* Social Media Icons (Instagram, Facebook, Twitter)
- \* Contact information and Support.

\* To products.

2. Hero Section (Main Banner)  
\* High-quality banner image and video.

3. Featured Categories (Browsing by Categories)

- \* Grid layout displaying different Craft Categories (e.g. - Resin Art Projects, Lipgloss etc.)
- \* Hover effects with short descriptions.

4. Product Shows in different Section are:  
\* Product You'll Love  
\* 2025 Planner calendar

\* Aesthetic journal

\* Our Latest collection

\* Personalized Gifts!

\* Shop By Price.  
supremo

Q1 - 16/01 / 2025

Q1 - 17 / 1 / 2025

Task :- Designing the Product Listing Page(PDP)

Task :- Designing the Product Detail Page

1. In Spring Boot with Thymeleaf, used fragments in the home page for the header, navbar and footer across multiple pages to include them in the PDP (Preserved listing page).
2. Layout & Features:-  
Designed a grid-based product listing page with high-quality images, detailed product information, and customer review section. Buttons like "Add to cart" and "Buy Now".

1. To maintain consistency, fragments from the home page, such as the header, navbar, and footer are used in the PDP.

07-18/01/2025

## Task:- Designing the Admin Dashboard.

The Admin Dashboard for the Craft-Vessel Project. The dashboard provides an intuitive and interactive interface for managing products, users, orders, and reports. Key features include product management, order tracking, user analytics, and sales reports with interactive charts. A responsive layout and navigation sidebar ensure seamless usability for administrators.

07-20/01/2025

## Task:- Setting GitHub and Git

1. Setup in Git and GitHub

2. How to push code to GitHub

3. Git pull & Git push commands to in git & github.

4. Creating Zip folder ~~and~~ on Craft-Verse, extraction of file.

*Srinidhi*  
21.01.25

01-21/01/2025

## Task :- Creation of Controller Page

1. Created the controller layer for the Craft-Verse project using Spring Boot. The controller is responsible for handling HTTP requests and directly refers to the appropriate service methods.

→ User Controller.

2. Create a Controllers folder and file are created in

→ AdminController

→ CardController

→ LoginController

→ OrderController

→ PaymentController

→ ProductController

→ ReviewController.java

01-22/01/2025

## Task :- Developing the Home Page (HTML & CSS)

→ Working on designing and coding the home page for the Craft-Verse project. Created customer folder, the create folder in template folder in create home.html file and create home.css file.

→ home.html file structured layout with a nav, header, footer and body section.

BT-23/01/2025

Task :- Fixing UI/UX Design issues in Home Page

- Worked on improving the design of the home page by fixing layout issues in `home.html` and updating styles in `home.css`.
- Adjusted the hero section, featured products, and navigation bar to ensure better alignment and responsiveness.

BT-24/01/2025

Task:- Configuring MySQL in vs code .

→ Set up MySQL in vs Code for the Craft-Verses Project to manage the database efficiently.

→ Installed the MySQL extension in VS Code and configured the database connection using MySQL Server.

01-25/01/2025

Task:- Creating a GitHub Branch and Writing Code.

01-21/01/2025

Task:- Controller class

- Create a new GitHub branch to work off specific lectures without affecting the main codebase.
- Review and test the changes in the home-page branch.
- Open a pull request for code review.
- Merge the branch into the main repository after approval.
- Used HTTP methods appropriately
  - GET (Retrieve data)
  - POST (Add new data)
  - PUT (Update existing data)
  - DELETE (Remove data)

01-28/01/2025

01-29/01/2025

## Task:- Controller Class.

- Implemented input validation using Springboot's @Valid annotation to prevent incorrect data submission.
- Spring MVC is used.
- Java for backend logic implementation.

Suresh  
29.01.25

## Task:- Designing Entity Relationships for Database.

- Worked on designing the Entity-Relationship (ER) Model for this Project to define database structure and relationship between entities.

01-30/10/2025

04-31/10/2025

## Task :- Entity class

### Task :- Entity class

→ Worked on developing the entity layer for the Craft - Verse web application.

→ Created entities such as  
→ User

→ Product

→ Order

→ Cart

→ Payment

→ Category

→ The entity class represent database tables and map the data to Java objects.

01-01/2/2025

Task :- Merging home-page Branch into Master.

01-3/2/2025

Task :- issue Fixing

→ Merged the home-page branch into the master branch in the FullHyb repository for the Craft-Versus project.

→ Test the master branch for any issues.

01-3/2/2025

Task :- Creating Database Tables in VS Code using MySQL

→ Worked on Creating database tables for the Craft-Versus Project using VS Code and MySQL.

→ The MySQL extension in VS Code to connect to the database and execute SQL queries.

01-5/02/2025

## Task:- Creating Database Tables :-

→ Table created include:  
→ Customer & Product

    → Orders

    ↳ Category

    → Order-Item

    → Review

    → WishList

    → Payment.

01-6/2/2025

## Task:- Creating a Database Folder and Writing SQL Script.

→ Created a database folder in the project directory to store SQL scripts for database setup and management.

→ Inside this folder, added a script.sql file to define the database schema and insert initial data.

→ The script includes table creation, relationships, and constraints, to ensure a structured and efficient database design.

Syrah  
7.02.25

01-12/12/2025

Task:- Designing Entity-Entity  
Relationships in Database.

→ Worked on designing Entity-Entity (E-E) relationships for the Craft-Vorese project to define how different entities interact within the database.

→ Using MySQL and JPA in Spring Boot I created relationships between entities like User, Products, Orders, Categories, and Cart using proper primary keys, foreign keys, and constraints.

01-08/03/2025

Task:- Create Relationship.

\* key relationships implemented:

1. One-to-many

2. Many-to-One

3. Many-to-Many

4. One-to-One

04-10 / 2 / 2025

## Task:- Implementing Repository in Spring Boot.

- Created the repository layer for the craft-verb Project using Spring Data JPA.
- The repository is responsible for interacting with the db to perform (CRUD (Create, Read, Update, Delete))
- Created repository interface for key entities like:-
  - Category Repository
  - Product Repository
  - User Repository
  - Widget Repository

04-11 / 2 / 2025

## Task:- Implementing Repository

- Used Spring Data JPA to implement the JpaRepository interface, Providing build-in methods like
  - findAll()
  - findByEntity()
  - save(Entity)
  - deleteBy()

01-12/12/2025

Task:-

Added custom query methods  
to fetch specific data efficiently

→ FindBy Category

→ FindBy Status etc.

→ Used Springboot JPA for ORM.

01-13/12/2025

Task:- Worked on enum class

→ Created a folder in constant  
under file names are  
in

→ Category Status

→ OrderItemStatus

→ PaymentMethod

→ PaymentStatus

→ ProductOrderStatus

→ ReviewStatus

→ UserStatus

→ WishStatus

01-14/12/2025

Task:-

Worked on Product Controller class to fetch the page, using getMapping.

Saurabh  
15.02.25

01-15/12/2025

Task:- Fragment used.

→ Create folder in Fragment worked in common file area store.

→ Create common.html file which store in homepage common area.

→ Data Binding in home page

01/14/2025

→ Learn on JDBC Connection which include http request dispatcher Servlet /Front Controller Handler mapper controller , View resolve etc .

01-18/2/2025

→ Merge the code in the github  
→ The conflict occurs and resolve the conflict .

01-19/2/2025

01-19/2/2025

01-20/2/2025

- Learn about UUID Universally Unique Identifier which are 128-bit numbers used to uniquely identify objects in computer system.
- Implemented it on entity class as @GeneratedValue(strategy = UUID).

→ Create Login Page design code in HTML & CSS & JavaScript.

→ Data binding in Home Page : And data loop used in html page .

01-21/2/2025

## Task:- Data Binding

→ Data Binding from database  
and bind it on front-end  
home page map the category.

→ Design in the PIP Page.

→ Data Binding in PIP and  
PIP Page And data  
transfer in backend  
Front-end to database.

→ Branch merge in GitHub.

Suresh  
23.02.25

04-24/10/2025

Task:- Admin Dashboard.

→ Working on Admin Dashboard  
Create folder in Admin  
and file create.

→ Create Admin Dashboard  
different Page Design.

→ Working on Admin Dashboard  
backend Part.

→ Issue Fixed

04-25/10/2025

01-26/12/2025

Task:- Admin Dashboard.

01-25/12/2025

Task:- Admin Dashboard.

→ Working on Admin Dashboard Category Page.

→ Working on backend Part of the dashboard Page.

→ Design in Category Page .  
Code written in HTML, CSS  
and JavaScript .

→ Working on Card Page .

01-28/3/2023

→ Working On Admin Dashboard Product Page Design and fix in size issue.

→ Working on Payment Page.

01-13/2023

Task:- Implementing Data Binding for Categories and Products.

→ Working on data binding in the Category and Product Pages to automatically display information from the database using Spring Boot Thymeleaf, and JPA.

→ Category and product data from the database and bound it to the frontend using Spring Model attributes.

01-3/3/2025

→ Working on image uploading in admin dashboard.

→ Working on upload image in category and product page.

01-4/3/2025

→ Worked on Search button.

→ Used JpaRepository (productString) to leverage built-in CRUD operation and simplify database interaction.

Summary  
01-03-25

④ - 5/3/2025

→ Working On Widget Page in Admin Dashboard.

→ Widget Page Design.

④ - 6/3/2025

→ Working On Widget Page cleda binding.

→ Fixing issue in Widget Page.

01-03/2025

to

01-08/2025

01-10/2025

→ Working on Widget Page  
in the Admin Dashboard.

→ Widget Page dynamically  
displays great time  
statistics such as  
different section Show  
in home Page.

→ Worked on implementing a  
Search functionality in  
the project to allow users  
to search for products  
dynamically.

→ The search feature was  
integrated into the product  
page using Spring Boot,  
Thymeleaf and JPA to fetch  
data from the database and  
display relevant results.

01-12/3/2025

01-12/3/2025

→ Worked on backend of  
Widget page and  
data table.

→ Create Widget entity class

→ Link it to the database.

→ Worked on login & Signup  
errors and fix it.

Suraj  
13-03-25

01-13/3/2025.

→ Created Widget repository.

Render data from database to Frontend.

01-14/3/2025

→ Working on Admin dashboard to render the dynamic data from the database and show it on Frontend.

01-15/3/2025

→ Create a Order Page in Admin Dashboard.

→ Space adjustment and overall design of widget list page.

→ Model to the widget HTML page to show widget list page.

01-17/03/2025

01-18/03/2025

→ Working on Edit button.  
Edit button working in  
auto-fil in model page.

→ Create on backend of  
widget and widget exist  
page.

→ Createdotto Repository,  
under Repository folder  
to extend JPA Repository.

→ Created edit and delete  
button on Category and  
Product page under  
Admin Dashboard.

→

→ Worked on delete button.

→ Fixing issue in Edit &  
Delete button.

Dmruki  
10/03/25

01-20/3/2025

→ Created edit and delete button on product page.

→ Created DTO repository under repository folder.

→ Edit & delete button alert binding.

01-21/3/2025

→ Working on Spring Boot security to project ensuring controlled access based on user roles and permission.

→ Applied role-based authentication & authorization restricting access to

Sensitive operations to authorized user only.

01-22/3/2025

→ Used Bcrypt Password encoding to securely store & verify user credentials.

→ Added custom login and logout functionality with proper session handling.

→ Ensured CSRF protection by enabling CSRF tokens in filter.

→ Implemented dependency injection with @Authorized to integrate the UserRepository for seamless interaction with MySQL database.

Swati  
32.03.23  
supremo