
SHIV NADAR UNIVERSITY



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Chapter One

Introduction

1.1 Problem Statement

The aim of this project is to provide a platform for exhibiting and selling the indigenous art forms of the country. We are developing a web application, to build a bridge between the indigenous artists and the international market, thereby providing global recognition to their products. The user would be able to order the products and support these artists from the comfort of their homes. This project is also a small step to promote the ‘Make in India’ initiative taken by the Government of India.

The web application aims to connect both artists and cultural organizations to the market thus completing the demand-supply chain. The artforms which are dying due to lack of visibility will finally have a platform to gain recognition and financial flow. To avoid the exploitation of artists, we provide direct transaction options and eliminate middlemen from the process.

1.2 Background Study

As far as art and culture are concerned, India is one of the most culturally rich countries in the world. Every culture has represented its distinct and traditional vibrancy through different art forms. Thus, Indian art embraces various artistry works in the form of handicrafts, sculpture, sarees, pottery, paintings, etc. Unfortunately, as the world moves towards modernization, these culturally rich goods and products are being left behind. The artists and workers whose livelihoods have depended solely on developing these artforms are now being challenged as never before. In the current economy, there is very little space left for these cultural forms to exist. As the result, each passing moment is seeing the death of these age-old arts.

1.3 Project Planning

Project planning is part of project management, which relates to the use of schedules such as Gantt charts to plan and subsequently report progress within the project environment. Initially, the project scope is defined and the appropriate methods for completing the project are determined. Following this step, the durations for the various tasks necessary to complete the work are listed and grouped into a work breakdown structure. The logical dependencies between tasks are defined using an activity network diagram that enables identification of the critical path. Float or slack time in the schedule can be calculated

using project management software. Then the necessary resources can be estimated and costs for each activity can be allocated to each resource, giving the total project cost. At this stage, the project plan may be optimized to achieve the appropriate balance between resource usage and project duration to comply with the project objectives. Once established and agreed, the plan becomes what is known as the baseline. Progress will be measured against the baseline throughout the life of the project

1.4 Purposes

The primary purpose of HindKala is to provide an online platform to the various endangered art forms of India and open them to the international market. Customers are provided with a smooth and hassle free shopping experience and are given the opportunity to explore various indigenous art forms of the country and learn about them.

The key features of HindKala include:

- Exhibits of the various indigenous handicraft products which are not generally available for sale on commercial e-commerce websites.
- A registration portal and a completely transparent order and payment system which supports payment through net banking, credit and debit cards, any online payment methods, etc.
- Products will be divided and classified into various subcategories for a user-friendly interface.
- The system provides product recommendations to the user based on their preferences and previous orders.
- Information about the culture and history of the products to promote sales.

As the team proceeds with the implementation of the project additional features will be added.

HindKala offers the user the following functionalities:

1. Inquire about various indigenous products
2. Register and Login to the portal
3. A cart to store all the selected products and review the order
4. Order products and pay for them online
5. Leave comments and reviews for the products
6. Sort and view the products according to different states and tags
7. Get access to authentic information about different art forms of india via HindKala's blog

Chapter Two

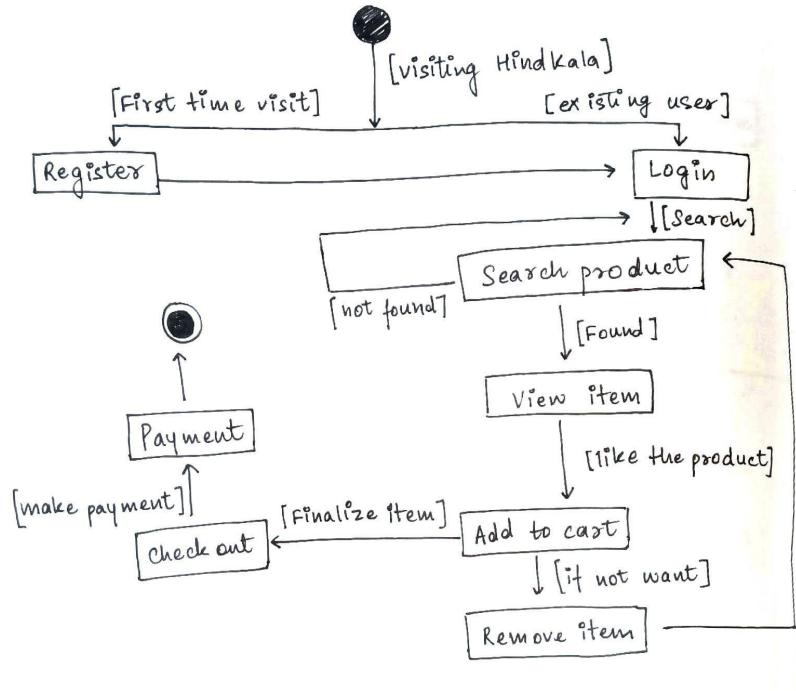
System Design

2.1 System Design

The system is divided into several parts: registration system, login system, search system, purchase system, order entry system, display system page with database representing server with PHP, MYSQL and XAMPP server. APACHE. The system diagram and system database diagram shown in the figure.

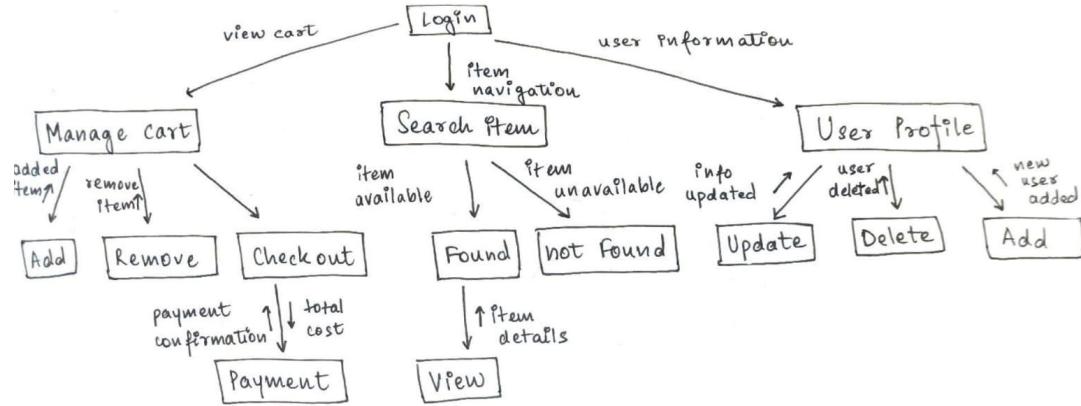
2.1.1 State Chart

They define different states of an object during its lifetime and these states are changed by events. Statechart diagrams are useful to model the reactive systems. Statechart diagram describes the flow of control from one state to another state. States are defined as a condition in which an object exists and it changes when some event is triggered. The most important purpose of Statechart diagram is to model lifetime of an object from creation to termination



2.1.2 Structure Chart

Structure diagram describes the flow of control from one state to another state. States are defined as a condition in which an object exists and it changes when some event is triggered. The most important purpose of Statechart diagram is to model lifetime of an object from creation to termination

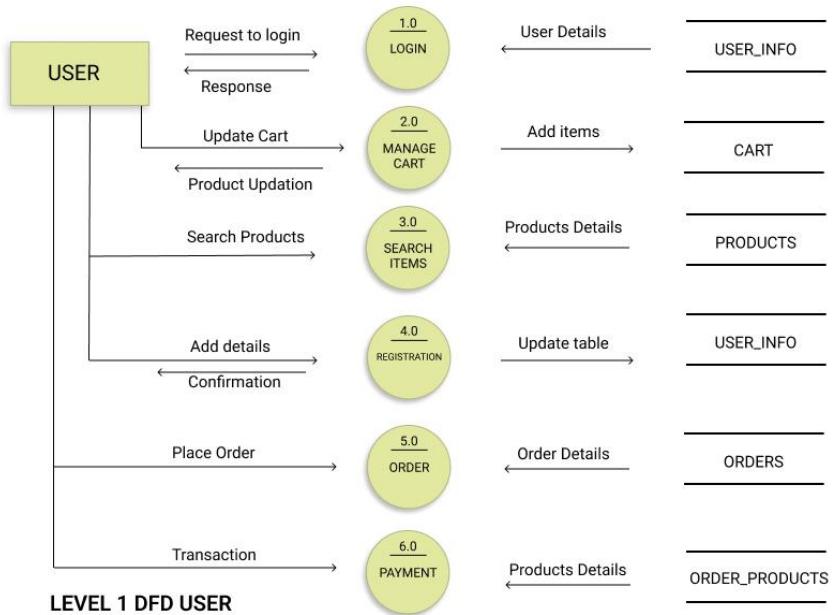
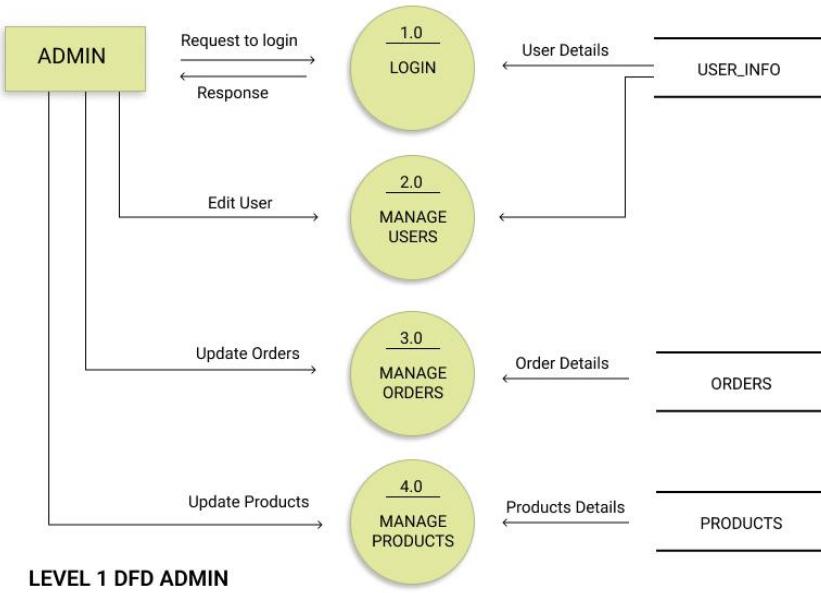


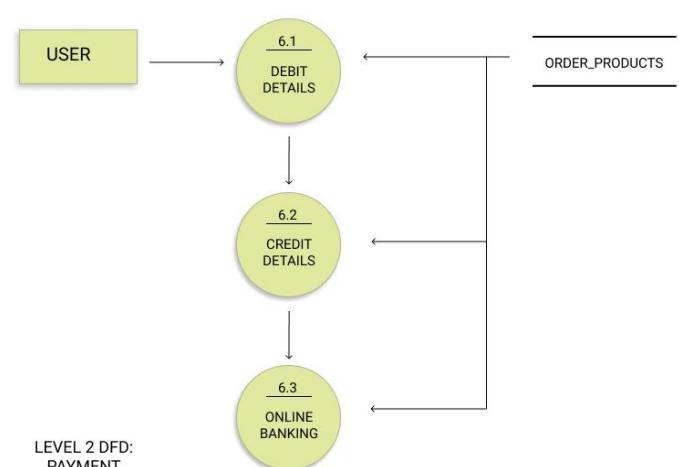
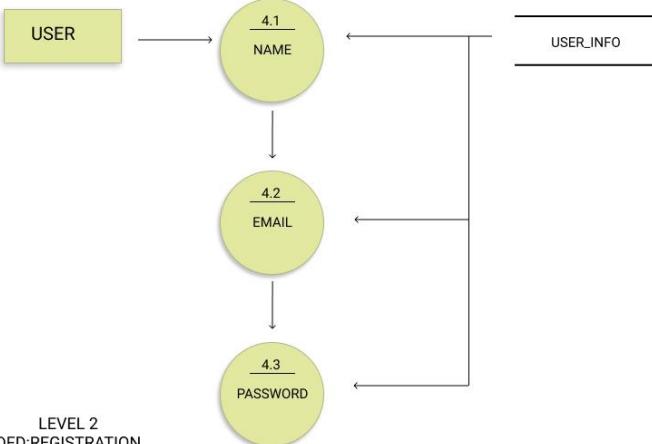
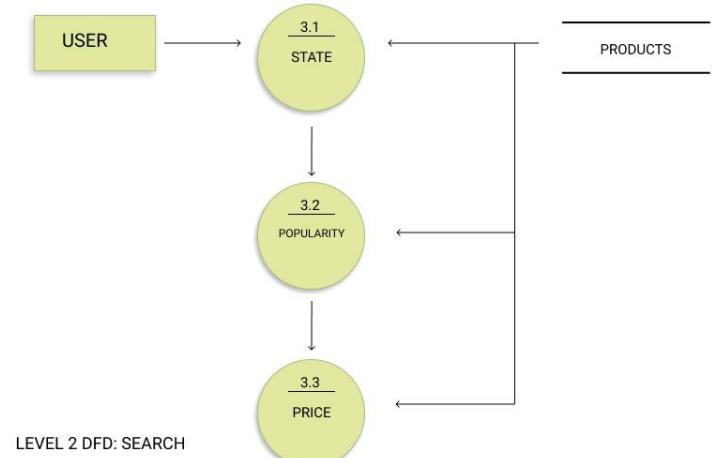
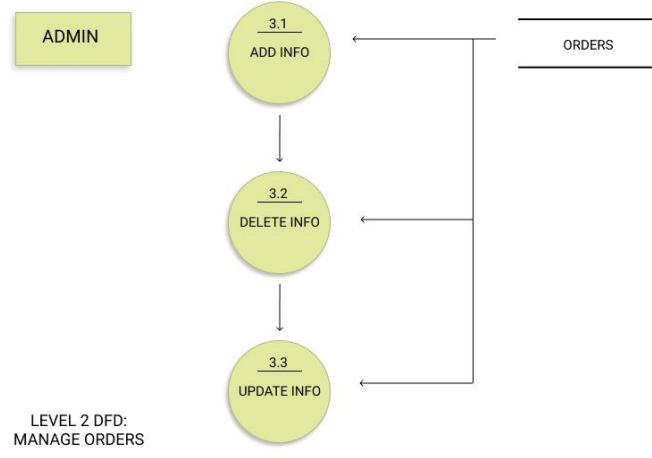
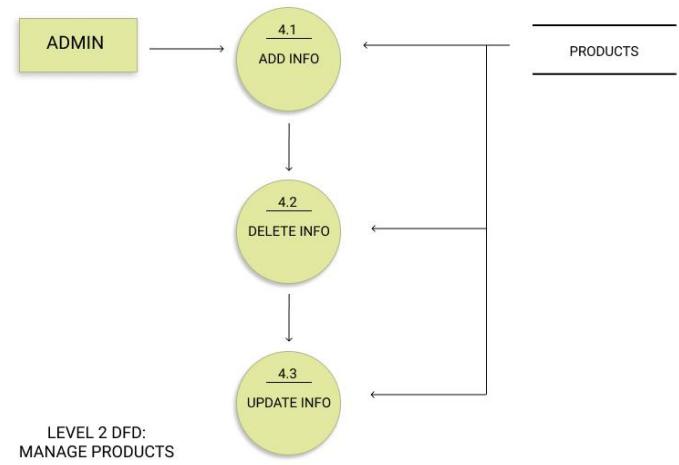
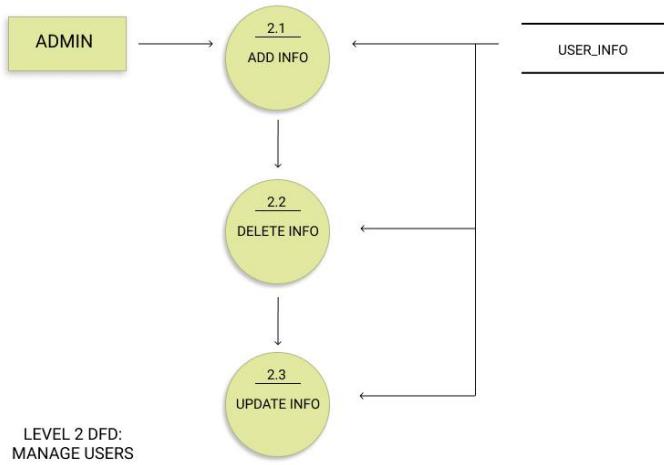
2.1.3 Data Flow Diagrams

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. It shows how data enters and leaves the system, what changes the information, and where data is stored. The objective of a DFD is to show the scope and boundaries of a system as a whole. It may be used as a communication tool between a system analyst and any person who plays a part in the order that acts as a starting point for redesigning a system. Level 0, level 1 and level 2 DFDs of HindKala are shown below.



LEVEL 0 DFD
(CONTEXT DIAGRAM)





2.2 User Characteristics

Admin

The administrator has complete access to the system. He is the only one who has full access to the members' and product details, as well as the ability to change them. Depending on the category, he can add a variety of products. He can also determine the quantity of a product that is available and its reasonable price. He can also set discounts for different occasions. A member's details can also be viewed by the administrator. The administrator has the ability to generate scratch cards so that users can use the recharge cards to purchase a variety of products. Admin is also in charge of the blog.

User

The user can access the system by entering his email address and password. The user can browse the products and place orders based on their specific requirements. He has access to his profile and can make changes to it. By logging into the system, he can make changes to his personal information. Using the search option, the user can quickly locate a variety of products. Please update his information. By logging into the system, he can make changes to his personal information. Using the search option, the user can quickly locate a variety of products. He can also read admin's blog posts and leave reviews for both the product and the blog content.

2.3 System Information

This system is a platform for promoting indigenous products that automates product management and sales. Admins can quickly add members, add products, search for products, update information, edit information, and buy products using the software. The following are some of the benefits of the system:

- An easy-to-use interface
- Quick access to the database Search functionality
- Environment's Appearance and Feel

2.4 Feasibility Analysis

Whatever we believe does not have to be feasible. It's a good idea to consider the feasibility of any project we take on. The study of impact that occurs in an organisation as a result of the development of a system is known as feasibility. It can have a positive or negative impact. The system is considered feasible when the positives nominate the negatives. Technical feasibility and Economical Feasibility are the two types of feasibility studies that can be done here.

Technical Feasibility

It is technically feasible because obtaining the necessary resources for the development and maintenance of the system will not be difficult. All of the resources required for the development and maintenance of the software.

Economical Feasibility

This application's development is extremely cost-effective. The organisation did not need to spend a lot of money to develop the system that was already in place. The only thing left to do is create a conducive environment for development under effective supervision. If we do so, we will be able to maximize the

usability of the corresponding resources. The organisation will not be able to invest more in the organisation even after it has grown. As a result, the system is financially viable.

Chapter Three

Hardware and Software Requirements

3.1 Hardware required:

- Processor : Pentium IV or Above
- RAM : 2GB or above
- Hard Disk : 50GB or above
- Input Devices : Keyboard, Mouse
- Output Devices : Monitor

3.2 Software required:

- Operating System : Linux, Ubuntu, Mac, Windows XP, 7, 8, 8.1, 10
- Frontend : HTML,CSS, Bootstrap, JavaScript, Wordpress templates
- Backend : MySQL, Wordpress Database Management
- Local host : Currently for the online platform deployment we are using localhost. It is based on XAMPP and works on Apache and MySQL
- Browser: An online browser is a must for displaying the website.
- Internet : Till the time the platform is locally deployed, internet connection is not necessary. If deployed on an official hosted web server like DigitalOcean, AWS or Google Cloud,internet connection becomes mandatory to connect to the site.

Chapter Four

Implementing Tools For The Project

4.1 Tools

The following tools are required to implement HindKala:

- HTML
- CSS
- XAMPP
- MySQL

We now discuss each of these tools in detail

4.2 What is XAMPP?

XAMPP stands for Cross-Platform (X), Apache (A), MySQL (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing purposes. Everything you need to set up a web server – server application (Apache), database (MySQL), and scripting language (PHP) – is included in a simple extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, transitioning from a local test server to a live server is extremely easy as well. Web development using XAMPP is especially beginner friendly.

XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself. Among these technologies, Perl is a programming language used for web development, PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL.

4.3 Components of XAMPP

XAMPP has four primary components. These are discussed below.

Apache: Apache is the actual web server application that processes and delivers web content to a computer. Apache is the most popular web server online, powering nearly 54% of all websites.

MySQL: Every web application, however simple or complicated, requires a database for storing collected data. MySQL, which is open source, is the world's most popular database management system. It powers everything from hobbyist websites to professional platforms like WordPress.

PHP: PHP stands for Hypertext Preprocessor. It is a server-side scripting language that powers some of the most popular websites in the world, including WordPress and Facebook. It is open source, relatively easy to learn, and works perfectly with MySQL, making it a popular choice for web developers.

Perl: It is a combination of two high-level dynamic languages, namely Perl 5 and Perl 6. Perl can be applied for finding solutions for problems based on system administration, web development, and networking. Perl allows its users to program dynamic web applications. It is very flexible and robust.

4.4 HTML

HTML, or HyperText Markup Language, allows web users to create and structure sections, paragraphs, and links using elements, tags, and attributes. However, it's worth noting that HTML is not considered a programming language as it can't create dynamic functionality. Every webpage you look at is written in a language called HTML. You can think of HTML as the skeleton that gives every web page structure.

4.5 CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging web pages, user interfaces for web applications, and user interfaces for many mobile applications. CSS is designed primarily to enable the separation of document content from document presentation, including aspects such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple HTML pages to share formatting by specifying the relevant CSS in a separate .CSS file, and reduce complexity and repetition in the structural content

4.5 MySQL

MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL).

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold vast amounts of information in a corporate network. In particular, a relational database is a digital store collecting data and organizing it according to the relational model. In this model, tables consist of rows and columns, and relationships between data elements all follow a strict logical structure. An RDBMS is simply the set of software tools used to actually implement, manage, and query such a database.

MySQL is integral to many of the most popular software stacks for building and maintaining everything from customer-facing web applications to powerful, data-driven B2B services. For HindKala, MySQL is used to handle all the databases required for the functioning of the application.

Chapter Five

Project Database And Table

5.1 Database Design

Every business requires a database. A good database will not allow any anomalies and will only store relevant data in an orderly manner. A database's efficiency and data integrity are harmed when anomalies exist. A delete anomaly, for example, occurs when a row is deleted. Other useful data is also lost as a result of this. The tables must be normalised as a result.

This ensures that data is accurate and retrieved correctly, which is the final goal. The database files are the system's primary source of data. It is the procedure for creating a design. Database files, which are the system's primary source of data. The files must be properly organised, designed and planned for gathering, storing, editing, and retrieving the required information information.

The organization of data in database aims to achieve three major objectives: -

- Data integration
- Data integrity
- Data independence

5.2 All Table List

Action	Table	Rows	Type	Collation	Size
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_actionscheduler_actions	149	InnoDB	utf8mb4_unicode_ci	192
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_actionscheduler_claims	0	InnoDB	utf8mb4_unicode_ci	32
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_actionscheduler_groups	4	InnoDB	utf8mb4_unicode_ci	32
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_actionscheduler_logs	447	InnoDB	utf8mb4_unicode_ci	96
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_commentmeta	4	InnoDB	utf8mb4_unicode_ci	48
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_comments	3	InnoDB	utf8mb4_unicode_ci	112
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_e_events	0	InnoDB	utf8mb4_unicode_ci	32
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_links	0	InnoDB	utf8mb4_unicode_ci	32
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_litespeed_url	0	InnoDB	utf8mb4_unicode_ci	48
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_litespeed_url_file	0	InnoDB	utf8mb4_unicode_ci	96
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_options	654	InnoDB	utf8mb4_unicode_ci	2
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_postmeta	1,962	InnoDB	utf8mb4_unicode_ci	3
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_posts	283	InnoDB	utf8mb4_unicode_ci	1
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	wp_termmeta	86	InnoDB	utf8mb4_unicode_ci	48
<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	Console_rms	69	InnoDB	utf8mb4_unicode_ci	48

Server: 127.0.0.1 » Database: hindkala

Table	Type	Character Set	Collation	Rows	Created	Last Updated
wp_terms	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_term_relationships	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_term_taxonomy	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_tinwwl_analytics	InnoDB	utf8	general_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_tinwwl_items	InnoDB	utf8	general_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_tinwwl_lists	InnoDB	utf8	general_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_usermeta	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_users	InnoDB	utf8mb4	unicode_ci	64	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_admin_notes	InnoDB	utf8mb4	unicode_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_admin_note_actions	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_category_lookup	InnoDB	utf8mb4	unicode_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_customer_lookup	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_download_log	InnoDB	utf8mb4	unicode_ci	0	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_order_coupon_lookup	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_order_product_lookup	InnoDB	utf8mb4	unicode_ci	86	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_order_stats	InnoDB	utf8mb4	unicode_ci	64	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_order_tax_lookup	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_product_attributes_lookup	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_product_meta_lookup	InnoDB	utf8mb4	unicode_ci	112	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_rate_limits	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23

Server: 127.0.0.1 » Database: hindkala

Table	Type	Character Set	Collation	Rows	Created	Last Updated
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wp_wc_reserved_stock	InnoDB	utf8mb4	unicode_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_tax_rate_classes	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wc_webhooks	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_api_keys	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_attribute_taxonomies	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_downloadable_product_permissions	InnoDB	utf8mb4	unicode_ci	86	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_log	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_order_itemmeta	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_order_items	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_payment_tokenmeta	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_payment_tokens	InnoDB	utf8mb4	unicode_ci	32	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_sessions	InnoDB	utf8mb4	unicode_ci	86	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_shipping_zones	InnoDB	utf8mb4	unicode_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_shipping_zone_locations	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_shipping_zone_methods	InnoDB	utf8mb4	unicode_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_tax_rates	InnoDB	utf8mb4	unicode_ci	86	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_woocommerce_tax_rate_locations	InnoDB	utf8mb4	unicode_ci	48	2022-04-11 10:45:23	2022-04-11 10:45:23
wp_wpfm_backup	InnoDB	utf8mb4	unicode_ci	16	2022-04-11 10:45:23	2022-04-11 10:45:23

5.3 Admin Table

Server: 127.0.0.1 » Database: hindkala » Table: wp_wc_admin_notes

wp_wc_admin_notes								
	note_id	name	type	locale	title	content	content_data	status
<input type="checkbox"/>	1	wc-admin-navigation-nudge	info	en_US	You now have access to the WooCommerce navigation	We're introducing a new navigation for a more intu...	{}	unactioned
<input type="checkbox"/>	2	wc-admin-complete-store-details	info	en_US	Add your store details to complete store setup	Complete your store details with important informa...	{}	unactioned
<input type="checkbox"/>	3	wc-refund>Returns-page	info	en_US	Setup a Refund and Returns Policy page to boost yo...	We have created a sample draft Refund and Returns ...	{}	unactioned
<input type="checkbox"/>	4	surface_cart_checkout	info	en_US	Introducing the Cart and Checkout blocks!	Increase your store's revenue with the conversion ...	{}	unactioned
<input type="checkbox"/>	5	wc-admin-wc-helper-connection	info	en_US	Connect to WooCommerce.com	Connect to get important product notifications	{}	unactioned

5.4 User Table

Showing rows 0 - 1 (total, Query took 0.0005 seconds.)

`SELECT * FROM `wp_users``

ID	user_login	user_pass	user_nicename	user_email	user_url	user_registered
1	admin	\$P\$B3YlsJpAbHJchZ5f9XF5NnLPA0	admin	monsoon478@gmail.com	http://localhost/hindkala	2022-04-19 19:37:1
3	rs134	\$P\$B2X5QbzKUp6E7j2LoYuXRSVLNtD1/	rs134	rs134@snu.edu.in		2022-04-23 09:02:3

5.5 Product Table

Showing rows 0 - 19 (total, Query took 0.0004 seconds.)

`SELECT * FROM `wp_woocommerce_order_itemmeta``

meta_id	order_item_id	meta_key	meta_value
1	1	_product_id	47
2	1	_variation_id	54
3	1	_qty	3
4	1	_tax_class	gst-10
5	1	_line_subtotal	1005
6	1	_line_subtotal_tax	100.5
7	1	_line_total	1005
8	1	_line_tax	100.5
9	1	_line_tax_data	a:2:{s:5:"total";a:1:{i:1;s:5:"100.5";}s:8:"subtot...
10	1	pa_color	white
11	1	pa_size	medium
12	2	method_id	flat_rate
13	2	instance_id	2
14	2	cost	12.00
15	2	total_tax	0
16	2	taxes	a:1:{s:5:"total";a:0:{}}
17	2	items	short sleeve t shirt - white, medium × 3
18	3	rate_id	1
19	3	label	GST 10%

5.6 Category Table

Showing rows 0 - 11 (12 total, Query took 0.0004 seconds.)

`SELECT * FROM `wp_wc_category_lookup``

category_tree_id	category_id
15	15
22	22
50	50
51	51
57	57
58	58
64	64
73	73
76	76
77	77
78	78
79	79

5.7 State Table

Showing rows 0 - 3 (4 total, Query took 0.0005 seconds.)

```
SELECT * FROM `wp_actionscheduler_groups`
```

group_id	slug
1	action-scheduler-migration
2	wc-admin-data
3	woocommerce-db-updates
4	wc_update_product_default_cat

5.8 Cart Table

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM `wp_wc_order_stats`
```

order_id	parent_id	date_created	date_created_gmt	num_items_sold	total_sales	tax_total	shipping_total	net_total	returning_customer
137	0	2022-04-23 14:21:41	2022-04-23 08:51:41	3	1117.5	100.5	12	1005	0

5.9 Order Table

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM `wp_wc_order_product_lookup`
```

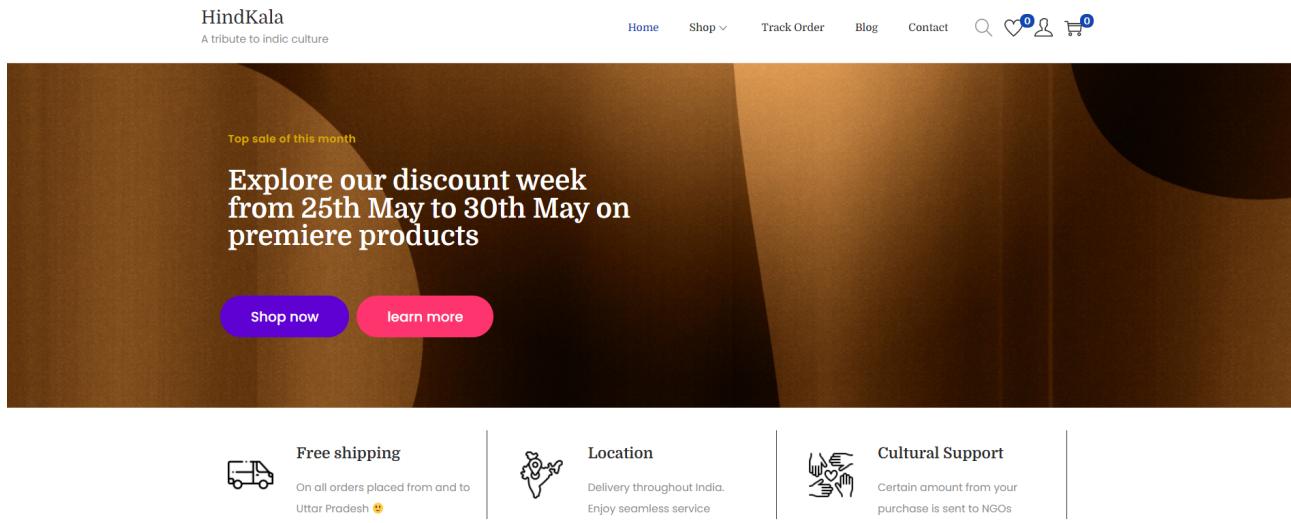
order_item_id	order_id	product_id	variation_id	customer_id	date_created	product_qty	product_net_revenue	product_gross_revenue
137	47	54	1	1	2022-04-23 14:21:41	3	1005	1117.5

Chapter Six

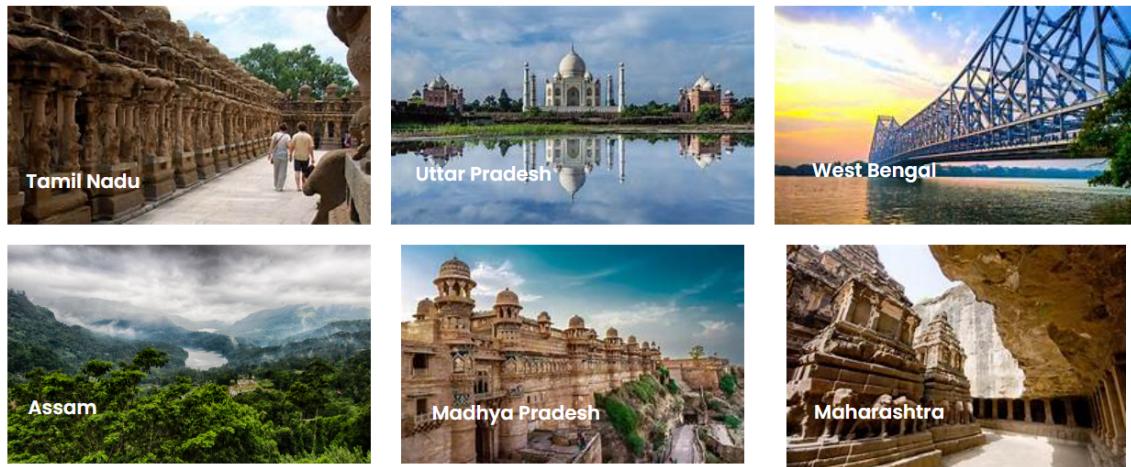
Project Model Overview

6.1 Home page

Hindkala's home page looks like this. It offers the user many functionalities like search for a product, view cart, shop for different products, track order, view blog, contact the site owner. The user can view their cart, wishlist and account using the Navigation Bar.



Different states that are featured by hindkala are also displayed on the home page. The user can explore the products of these states by clicking on these widgets.



The homepage also displays featured products. These are the best sellers on HindKala. This gives the user a sense of what's most popular.

Top sale of this month

Featured Products

Dive into the world of Indian culture and explore exquisite products from six Indian states namely:

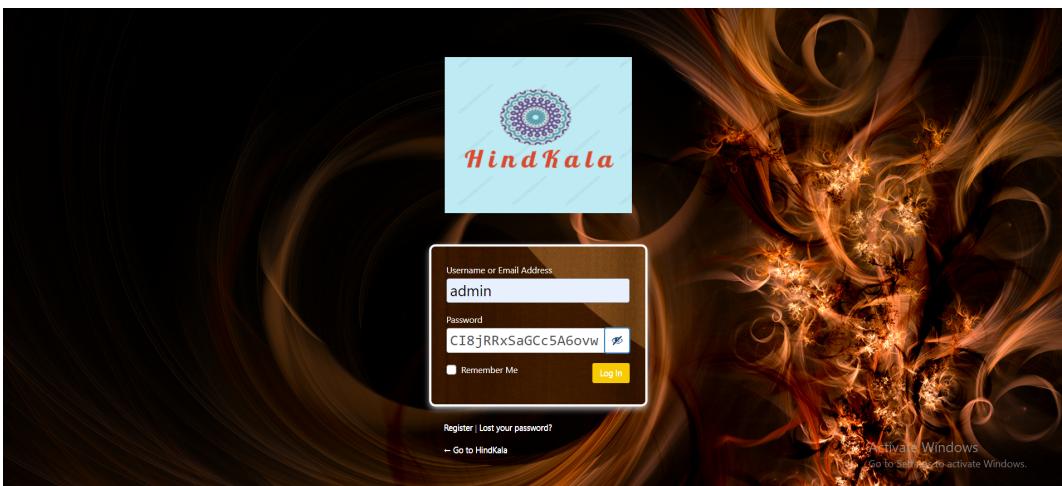
Assam, Maharashtra, Madhya Pradesh, Tamil Nadu, Uttar Pradesh and West Bengal

The grid displays the following products:

- Bombay Metal Wall Art**: A blue elephant playing a flute, marked down by -33% from ₹2,000.00 to ₹1,399.00.
- Ceramic Home Decor**: Six colorful square tiles, marked down by -29% from ₹699.00 to ₹499.00.
- Cross Body Traditional Embroidered Clutch**: A woman holding a red and white clutch bag, marked down by -7% from ₹500.00 to ₹465.00.
- Exotic India Six Armed Standing Ganesha – Mahabalipuram**: A black stone statue of Ganesha, marked down by -7% from ₹13,999.00 to ₹12,999.00.
- Handcrafted Natural Cane Stool**: A round woven cane stool, marked down by -25% from ₹3,999.00 to ₹2,999.00.
- Hanging Mask**: A decorative mask with a painted face, marked down by -11% from ₹1,999.00 to ₹1,700.00.
- Leather Handbag**: A colorful handbag with a floral pattern, marked down by -11% from ₹1,999.00 to ₹1,700.00.
- Maharashtrian Traditional Kolhapur Jewelry**: A pair of large, ornate gold bangles, marked down by -33% from ₹2,000.00 to ₹1,399.00.

6.2 Admin login page

This is the admin login page, admin can access the admin portal via this.



6.3 New user registration page

Whenever HindKala encounters a new user, they are required to register to HindKala. After registration they can login and continue to a smooth shopping experience.

The screenshot shows the HindKala website interface. At the top, there is a navigation bar with links for Home, Shop, Track Order, Blog, Contact, a search icon, a heart icon with a count of 0, a user profile icon, and a shopping cart icon with a count of 0. Below the navigation bar, there are two forms: 'Login' on the left and 'Register' on the right.

Login Form Fields:

- Username or email address *
- Password *
- Remember me
- Log in**
- [Lost your password?](#)

Register Form Fields:

- Email address *
- rs134@snu.edu.in
- Password *
- Rimjhim1234
- Medium
- Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our [privacy policy](#).
- Register**

6.4 My account page

User can view details of their account from the my account page. They can view the orders they placed from their account, wishlist, and can edit their account details.

The screenshot shows the HindKala 'My account' page. On the left, there is a sidebar with the following menu items:

- Dashboard
- Orders
- Downloads
- Addresses**
- Account details
- Wishlist
- Logout

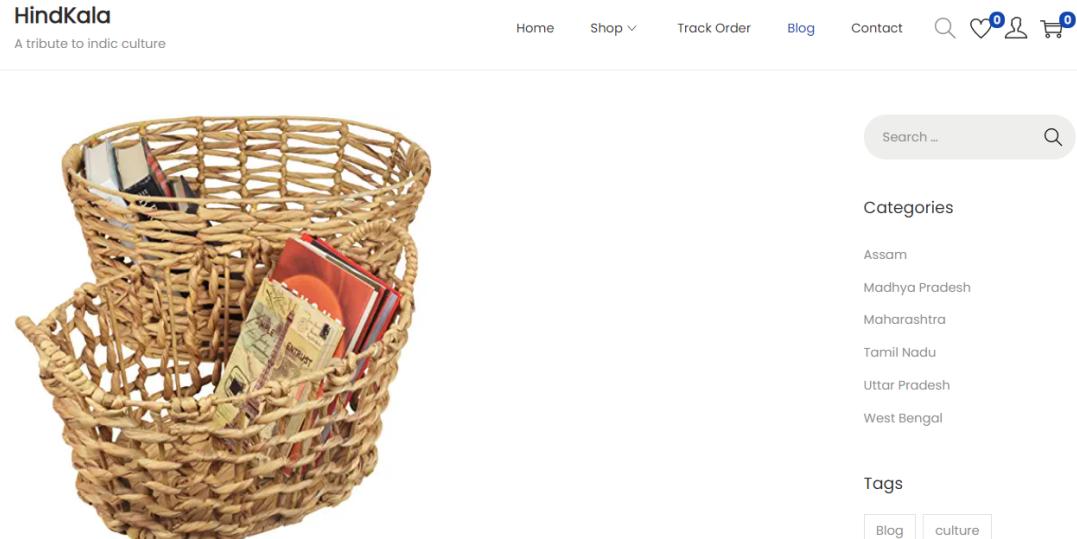
The main content area shows a success message: **Address changed successfully.** Below this message, it says: "The following addresses will be used on the checkout page by default." There are two tables: one for **Billing address** and one for **Shipping address**.

Billing address	
<i>Shiv Nadar University Rimjhim Singh hostel 2A Shiv Nadar University Dadri, Uttar Pradesh, India 201314 Uttar Pradesh</i>	

Shipping address	
<i>Shiv Nadar University Rimjhim Singh Sector 10, Shanti Nagar, Mira Road (East), Thane Mira Road 401107 Maharashtra</i>	

6.5 Blog page

This page provides the user with various blogs about different Indian states and their Indigenous art forms. As the purpose of this site is to promote Indian artforms and provide an international platform to them, we included this page so that the user can get access to additional information about what they are buying and the rich history of Indian art.



The screenshot shows a website for "HindKala" featuring a large image of a woven basket containing several books. Below the image is the title "Famous Handicrafts of Assam". To the right, there's a sidebar with a search bar, categories for Indian states, tags, and product categories.

HindKala
A tribute to indic culture

Home Shop ▾ Track Order Blog Contact

Search ...

Categories

- Assam
- Madhya Pradesh
- Maharashtra
- Tamil Nadu
- Uttar Pradesh
- West Bengal

Tags

- Blog
- culture
- Handicraft

Product categories

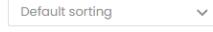
- Assam
- Madhya Pradesh

6.6 State wise product page

For each state that Hindkala features, the user can view the products categorically. They can filter the products via different tags and different price range

HindKala
A tribute to indic culture

Home Shop ▾ Track Order Blog Contact    

Showing all 6 results 

Search products... 

Filter by price 
 Price: ₹500 – ₹7,660

Filter by Color 

blue 	(1)
green 	(1)
pink 	(1)
red 	(1)
yellow 	(1)

Bombay Metal Wall Art 
 ₹2,999.00 ₹1,999.00

Maharashtrian Traditional Kolhapur Jewelry 
 ₹2,999.00 ₹1,999.00

Nesting Doll Stacking Dolls 
 ₹800.00 ₹500.00

Product categories 


- [Assam](#)
- [Madhya Pradesh](#)
- [Maharashtra](#)
- [Tamil Nadu](#)
- [Uncategorized](#)
- [Uttar Pradesh](#)




 -7%

6.7 Single product page

The user can view all information about a product. Functionality to change colour and quantity is also available. User can add the product to cart or can add it to the wishlist.

-4%

Paithani Saris

₹4,000.00 – ₹7,654.00

- Date First Available : 24 April 2021
- Manufacturer : Varkala Silk Sarees
- ASIN : B08FMQW27Z
- Item model number : V18IGDRN-BB-R
- Country of Origin : India
- Department : Women
- Manufacturer : Varkala Silk Sarees, C-47-48, Pramukh Park Industrial Society, Near Batlibolt Circle, Pandesara Road, Surat -394221
- Packer : Varkala Silk Sarees, C-60, 1st Floor, Pramukh Park Industrial Society, Near Batlibolt Circle, Pandesara Road – 394221
- Item Weight : 800 g
- Item Dimensions LxWxH : 5.5 x 1.16 Meters
- Net Quantity : 1.00 count
- Included Components : With Blouse Piece
- Generic Name : Women's Paithani Silk Saree

COLOR: red

blue green pink red yellow
 Clear

₹8,000.00 ₹7,654.00

Hurry! only 11 left in stock.

– 1 +

ADD TO CART

Add to Wishlist

SKU: red
Category: Maharashtra
Tags: clothing, handicrafts, maharashtra, saris

6.8 Shopping cart

HindKala
A tribute to indic culture

Home Shop Track Order Blog Contact

Product	Price	Quantity	Subtotal
Royal Khwaab Mens Kolhapuri Chappal ₹700.00 <input type="button" value="-"/> <input checked="" type="button" value="2"/> <input type="button" value="+"/>	₹1,400.00		
Ceramic Home Decor ₹499.00 <input type="button" value="-"/> <input checked="" type="button" value="1"/> <input type="button" value="+"/>	₹499.00		
Metal Hand Mirror and Comb ₹7,999.00 <input type="button" value="-"/> <input checked="" type="button" value="1"/> <input type="button" value="+"/>	₹7,999.00		

[Update cart](#)

Cart totals

Subtotal	₹9,898.00
Shipping	Flat rate: ₹21.50
Shipping to Sector 10,Shanti Nagar,Mira Road(East),Thane, Mira Road 401107, Maharashtra.	
Change address	
GST 12% (estimated for India)	₹168.00
GST 10% (estimated for India)	₹849.80
Total	₹11,037.30

[PROCEED TO CHECKOUT](#)

6.9 My wishlist page

My wishlist

<input type="checkbox"/>		Product Name	Unit Price	Date Added	Stock Status	
<input type="checkbox"/>		Paithani Saris	₹4,000.00 – ₹7,654.00	April 27, 2022	<input checked="" type="checkbox"/> 11 in stock	Select options
<input type="checkbox"/>		Bombay Metal Wall Art	₹2,999.00 ₹1,999.00	April 27, 2022	<input checked="" type="checkbox"/> 10 in stock	Add to Cart

[Add Selected to Cart](#)
[Add All to Cart](#)

Share on

6.10 Checkout page

First name *

Last name *

Company name (optional)

Country / Region *

Street address *

Town / City *

State *

PIN *

Phone *

Email address *

Ship to a different address?

Order notes (optional)

Notes about your order, e.g. special notes for delivery.

PRODUCT	SUBTOTAL
Royal Khaab Mens Kolhapuri Chappal × 2	₹1,400.00
Ceramic Home Decor × 1	₹499.00
Metal Hand Mirror and Comb × 1	₹7,999.00
Subtotal	₹9,898.00
Shipping	
<input checked="" type="radio"/> Flat rate: ₹4.00	
<input type="radio"/> Free shipping	
GST 12%	₹168.00
GST 10%	₹849.80
Total	₹10,919.80
<input checked="" type="radio"/> Cash on delivery	
Pay with cash upon delivery.	
<input type="radio"/> Credit Card/Debit Card/NetBanking	
 Pay by Razorpay	Cards, Netbanking, Wallet & UPI
<input type="radio"/> PayPal	
Your personal data will be used to process your order, support your experience throughout this website, and for other purposes described in our privacy policy .	
PLACE ORDER	

6.11 Successful order placed

Thank you for shopping with us. Your account has been charged and your transaction is successful. We will be processing your order soon.

Order number:	Date:	Total:	Payment method:
325	April 27, 2022	₹10,919.80	Cash on delivery

Pay with cash upon delivery.

ORDER DETAILS

PRODUCT	TOTAL
Royal Khwaab Mens Kolhapuri Chappal × 2	₹1,400.00
Ceramic Home Decor × 1	₹499.00
Metal Hand Mirror and Comb × 1	₹7,999.00
Subtotal:	₹9,898.00
Shipping:	₹4.00 via Flat rate

6.12 Track order page

Order #**325** was placed on **April 27, 2022** and is currently **Processing**.

ORDER DETAILS

PRODUCT	TOTAL
Royal Khwaab Mens Kolhapuri Chappal × 2	₹1,400.00
Ceramic Home Decor × 1	₹499.00
Metal Hand Mirror and Comb × 1	₹7,999.00
Subtotal:	₹9,898.00
Shipping:	₹4.00 via Flat rate
GST 12%:	₹168.00
GST 10%:	₹849.80
Payment method:	Cash on delivery
TOTAL:	₹10,919.80

Activ
Go to:

Chapter Seven

Software Testing

Software testing is a process of running the programs/files with the intent of finding errors in software. Software testing assures the quality of software and represents final review of other phases of software like specification, design, code generation etc.

7.1)Unit Testing

Unit testing emphasizes the verification effort on the smallest unit of software design i.e.; a software component or module. Unit testing is a dynamic method for verification, where a program is actually compiled and executed. Unit testing is performed in parallel with the coding phase. Unit testing tests units or modules not the whole software.

We have tested each view/module of the application individually. As the modules were built up testing was carried out simultaneously, tracking out each and every kind of input and checking the corresponding output until the module is working correctly.

The functionality of the modules was also tested as separate units. Each of the three modules was tested as separate units. In each module all the functionalities were tested in isolation.

In the Search Products Module when a product has been added to cart it has been made sure that if the item already exists in the shopping cart then the quantity is increased by one, else a new item is created in the shopping cart. Also the state of the system after a product has been dragged into the shopping cart is the same as the state of the system if it was added by clicking the add to cart button.

It has been ensured that the quantity of products that the user is able to add is restricted to the number of items in the inventory. The user cannot exceed that limit and if tried to do so, is notified that not enough products are available.

In the User Module it has been tested for the proper functioning of the login, registration interfaces. Users can add reviews and as soon as a user adds a review it is updated in the view customer review tab. It has been checked to see if the whole page refreshes or a partial page update happens when a user writes a review. There is an additional password strength checking feature for the registration form. The user is able to create an account and register to HindKala only if their password strength is strong.

In the Manage Cart it has been tested that when a user edits a quantity or removes a product from the cart, the total price is updated accordingly. It has been checked to see if the whole page refreshes or a partial page update happens when a user edits the cart. The same functionality applies to the wishlist and has been tested accordingly.

7.2)White Box Testing

In white box testing knowing the internal working of the product, tests can be conducted to ensure that internal operations are performed according to specification and all internal components have been adequately exercised. In white box testing, logical paths through the software are tested by providing test cases that exercise specific sets of conditions and loops.

Using white-box testing software developer can derive test case that :

- Guarantee that all independent paths within a module have been exercised at least once.
- Exercise all logical decisions on their true and false side.
- Exercise all loops at their boundaries and within their operational bound.
- Exercise internal data structure to ensure their validity.

At every stage of project development we have tested the logical aspects of the program by supplying the invalid inputs and generating the respective error messages. All the loops and conditional statements are tested to the boundary conditions and validated properly.

7.3) Black Box Testing

Black box testing focuses on the functional requirements of the software. This is black box testing enables software engineering to derive a set of input conditions that will fully exercise all functional requirements for a program. Black box testing is not an alternative to white box testing; rather it is a complementary approach that is likely to uncover a different class of errors that white box methods like.

- Interface errors.
- Performance in data structure.
- Performance errors.
- Initializing and termination errors.

7.4) Validation Testing

It provides final assurances that software meets all functional, behavioral & performance requirements. Black box testing techniques are used here.

There are three main components

- Validation test criteria (no. in place of no. & char in place of char)
- Configuration review (to ensure the completeness of s/w configuration.)
- Alpha & Beta testing- Alpha testing is done at developer's site i.e. at home & Beta testing once it is deployed. Since we have not deployed the application, We could not do the Beta testing.

Test Cases- Our team has used a number of test cases for testing the product. There were different cases for which different inputs were used to check whether desired output is produced or not.

1. Addition of a new product to the cart should create a new row in the shopping cart.
2. Addition of an existing product to the cart has to update the quantity of the product.
3. Any changes to items in the cart have to update the order summary correctly.
4. Because the same page is inserting data into more than one table in the database, atomicity of the transaction is tested.

Chapter Eight

SRS Document

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1. PROBLEM DEFINITION

HindKala is a software that provides an automated e-commerce platform for the exhibition and sales of various indigenous art forms of the country.

- 1.1. The user can register using the registration option using their email, name, address and password selected by the user. The user can login and place orders after the registration is complete.
- 1.2. The user can search for products based on their classification and select from the various options available.
- 1.3. The user can store products they wish to buy into their carts and view the details about the products.
- 1.4. Also, the user can leave reviews and ratings for the products.
- 1.5. It allows the user to pay for the products through all the online payments methods like credit card, net banking etc

2. SYSTEM REQUIREMENT SPECIFICATION

2.1 INTRODUCTION

2.1.1 PURPOSE

2.1.1.1 The purpose of this SRS document is to describe the various requirements to design an e-commerce system for various products.

2.1.1.2 The intended audience of this project is any user from any age group and geographical area who wants to get information about various indigenous art products and buy them for personal use or gifting purposes.

2.1.2 SCOPE

2.1.2.1 The product is titled HindKala.

2.1.2.2 The product will perform the following tasks:

2.1.2.2.1 Inquire about various indigenous products

2.1.2.2.2 Register on the portal

2.1.2.2.3 A cart to store all the selected products and review the order

2.1.2.2.4 Order products and pay for them online

2.1.2.2.5 Leave comments and reviews for the products

2.1.3 DEFINITIONS, ACRONYMS AND ABBREVIATIONS

2.1.3.1 DBMS- DataBase Management System

2.1.4 REFERENCES

2.1.4.1 IEEE standard 830-1998 recommended practice for Software Requirements Specifications-Description

2.1.5 OVERVIEW

2.1.5.1 The SRS contains an analysis of the requirements necessary to help easy design of the software.

2.1.5.2 The overall description provides interface requirements for the Hind Kala e-commerce system, product perspective, hardware interfaces, software interfaces, communication interface, memory constraints, product functions, user characteristics and other constraints.

2.1.5.3 Succeeding pages illustrate the characteristics of typical naïve users accessing the system along with legal and functional constraints enforced that affect this system in any fashion.

2.2 THE OVERALL DESCRIPTION

2.2.1 PRODUCT PERSPECTIVE

2.2.1.1 HARDWARE INTERFACES

2.2.1.1.1 Hard disk: The database connectivity requires a hardware configuration that is online. This makes it necessary to have a fast database system running on a high rpm hard disk permitting complete data redundancy and backup systems to support the primary goal of reliability.

2.2.1.1.2 The system must interface with the standard output device, keyboard and mouse to interact with this software.

2.2.1.2 SOFTWARE INTERFACES

2.2.1.2.1 Back End: php, MySql

2.2.1.2.2 Front End: Visual Studio Code

2.2.1.3 MEMORY CONSTRAINTS

2.2.1.3.1 There are no specific constraints on memory

2.2.1.4 OPERATIONS

2.2.1.4.1 The following modes operations allowed by the product are

2.2.1.4.1.1 Registering the user on the portal using their email, name, address and password selected by the user.

2.2.1.4.1.2 Login , place orders and pay for them after the registration is complete.

2.2.1.4.1.3 Search for products based on their classification and select from the various options available.

2.2.1.4.1.4 Store products a user wishes to buy into their carts and view the details about the products.

2.2.1.4.1.5 Also, the user can leave reviews and ratings for the products.

2.2.2 PRODUCT FUNCTIONS

2.2.2.1 Register using the registration option using their email, name, address and password selected by the user. Login and place orders after the registration is complete.

2.2.2.2 Search for products based on their classification and select from the various options available.

2.2.2.3 Store products a user wishes to buy into their carts and view the details about the products.

2.2.2.3 Also, the user can leave reviews and ratings for the products.

Pay for the products through all the online payments methods like credit card,net banking etc

2.2.3 USER CHARACTERISTICS

2.2.3.1 The intended users of this software need not have specific knowledge as to what is the internal operation of the system. Thus the end user is at a high level of abstraction that allows easier, faster operation and reduces the knowledge requirement of the end user.

2.2.3.2 The Product is absolutely user friendly, so the intended users can be the naïve users.

2.2.3.3 The product does not expect the user to possess any technical background. Any person who knows how to use the mouse and the keyboard can successfully use this product.

2.2.4 CONSTRAINTS

2.2.4.1 There is no option for payment on delivery till now for the users

2.3 SPECIFIC REQUIREMENTS

The specific requirements for this online portal is :

1. Localhost: Currently for the online platform deployment we are using localhost. It is based on XAMPP and works on Apache and MySQL
2. Browser: An online browser is a must for displaying the website.
3. Internet : Till the time the platform is locally deployed, internet connection is not necessary. If deployed on an official hosted web server like DigitalOcean, AWS or Google Cloud,internet connection becomes mandatory to connect to the site.

2.4 FRONT-END DESCRIPTION

Currently the front-end of the project is in the wireframe stage. The main front-end features till now are

1. Slider containing latest deals and offers
2. A global navbar having selected indian states as categories
3. Search bar
4. Cart for buying products and provide an interface for digital transaction and a wishlist
5. My accounts option for both user and admin to view and edit their profile details
6. Register option for new users
7. The products to be sold in grid view
8. Featured Products
9. A checkout page when user wants to buy a product

2.5 BACK-END DESCRIPTION:

Hind Kala maintains certain tables in the database, to keep records of the activities performed on the website. The detailed information of the different tables is mentioned below:

1. **Admin Table:** This table contains information about admin
2. **Cart Table:** This table stores information about different products added in cart
3. **Category:** This table stores information about different categories of products that are featured in the website.
4. **Order Table:** This table stores some additional information about orders
5. **Products Table:** This table stores information about products
6. **User Table:** This table stores information about users
7. **State Table:** This table stores information about different states whose products are featured in the website.

Chapter Nine

Conclusion

8.1 Conclusion

The ‘HindKala’ software is designed to provide a web based application that would make searching, viewing and selection of a product easier. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user’s input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews.

Exhibits of the various indigenous handicraft products which are not generally available for sale on commercial e-commerce websites. In the end HindKala supports the following fubctionalities

A registration portal and a completely transparent order and payment system which supports payment through net banking, credit and debit cards, any online payment methods, etc.

Products will be divided and classified into various subcategories for a user-friendly interface.

The system provides product recommendations to the user based on their preferences and previous orders.

Information about the culture and history of the products to promote sales.

8.2 Scope for Future Work

The following things can be done in future.

- The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
- The current system is confined only to the shopping cart process. It can be extended to have an easy to use check out process.
- Users can have multiple shipping and billing information saved. During checkout they can use the drag and drop feature to select shipping and billing information