

E-commerce Website for Janardanswami Yogabhyasi Mandal

SYNOPSIS

Submitted To
Department of Information Technology Government Polytechnic, Nagpur
In the partial fulfilment of the requirements
for the award of the

**Diploma in Engineering
(Information Technology)**

BY

**Mr. Pratyay P. Dhond
Roll No: 1907011**

**Mr. Harsh S. Naidu
Roll No: 1907016**

**Ms. Janhavi N. Itankar
Roll No: 1907018**

**Mr. Priyanshu M. Lapkale
Roll No: 1907025**

**Mr. Manthan S. Ghonge
Roll No: 1907029**

**Ms . Aayushi A. Sonkusare
Roll No: 1907045**

**Ms. Uzma Jabeen Syed Raza Ali
Roll No: 1907052**

**Mr. Varad V. Nimbarte
Roll No: 1907054**

Under the guidance of
Dr. A. R. Mahajan



DEPARTMENT OF INFORMATION TECHNOLOGY

Government Polytechnic, Nagpur

An Autonomous Institute of Government of Maharashtra

Near Mangalwari Bazar, Sadar, Nagpur 440 001(M.S.)

INDIA

Approval Sheet

The synopsis entitled **E-Commerce Website for Janardanswami Yogabhyasi Mandal** submitted by

Mr. Pratyay P. Dhond. Roll No:1907011

Mr. Harsh S. Naidu. Roll No:1907016

Ms. Janhavi N. Itankar. Roll No:1907018

Mr. Priyanshu M. Lapkale. Roll No:1907025

Mr. Manthan S. Ghonge. Roll No:1907029

Ms . Aayushi A. Sonkusare. Roll No:1907029

Ms. Uzma Jabeen Syed Raza Ali. Roll No:1907052

Mr. Varad V. Nimbarte. Roll No:1907054

is approved for the partial fulfilment of the requirement for the award of
Diploma in Information Technology

Dr. A. R. Mahajan

Guide

Prof.L.D.Vilhekar

Project Coordinator

Seal/Stamp

Dr. A.R.Mahajan

HOD

Abstract

Janardanswami Yogabhyasi Mandal is a non-governmental organisation working on providing free Yoga classes for people of all age groups. They also provide free diagnosis for diseases and recommend *Yogasana* for the same.

This organisation also provides books for sale based on a variety of topics such as Yoga postures, Yoga for specific diseases, monthly and fortnight magazines, etc. These books are currently sold only via their organisation's centre at Ram Nagar and through postal services. This current approach is non-scalable and it is limited to only people from Nagpur mostly, as there is no proper way for people outside Nagpur to buy the books.

For solving this problem we decided to use the approach of Designing, Developing and Deploying an E-commerce website where it would be possible for people in remote areas to buy the books with the minimum requirement of internet, and a working web browser. As this would be an ideal approach and scalable according to the requirements of the organisation.

Contents

Abstract	ii
List of Figures	iv
1 Introduction	1
1.1 Introduction	1
1.2 ACM Keywords	2
2 Problem Statement	3
2.1 Problem Statement	3
2.2 Solving Approach	3
2.3 Outcomes	4
3 Plan of Dissertation execution	7
4 References	8

List of Figures

Chapter 1

Introduction

1.1 Introduction

A website might be compared to a makeover for a business or an organisation. It aids in the generation of more funds while also drawing the attention of more people. A well-designed website may entice potential customers in a number of ways, including excellent content, simple navigation, and the best services.

- **What is Janardanswami Yogabhyasi Mandal?**

Organizations like Janardan Swami Yogabhyasi Mandal are a rarity in today's utilitarian society. It is a one-of-a-kind organisation that promotes 'Yog' as a way of life or culture in society for the contentment, health, and happiness of all souls by providing free Yog training to anybody, regardless of caste, creed, or religion.

It is the organization's main goal and mission, as well as the phrase encoded in its logo, which is the message of the organization's founder, parampujya yog murti Janardhan Swami, The Devine Saint, Guru, The Source of Inspiration, and the organization's principal guiding force.

1.2 ACM Keywords

1. jsyog : Janardan Swami Yogabhyasi Mandal
2. NoSQL : Not SQL, queries involving collections and documents and not the legacy SQL Syntax.
3. Cloud Database : A database which is located remotely AKA Virtual Database
4. Vue.js: A progressive framework for building user interfaces
5. TailwindCSS : A utility-first CSS framework for rapidly building custom user interfaces.
6. FirebaseFirestore : A cloud-hosted, NoSQL database accessible directly via native SDKs
7. Figma : a powerful design tool that helps to Design and collaborate with team.
8. git : Version Control System
9. github : A web-based Git or version control repository on the Internet with a hosting service.
10. API : Application Programming Interface
11. CRUD : Create Update Delete operations

Chapter 2

Problem Statement

2.1 Problem Statement

Provide a platform for scaling-up the sales of organisation's products i.e. Books, articles.

2.2 Solving Approach

Designing, Developing and Deploying a website which would provide the users with the option to pay via a payment portal using an API, Browse for books or magazines, add them to the user's carts, wish-list the books and tracking the Consignment via the Order No(Post no.). The website would be developed using Tailwind CSS for frontend and Vue.js for Server side scripting, along with Firebase firestore for cloud database, cloud storage and User Authentication.

2.3 Outcomes

These are the different web pages which will be included in the website :

- Login
- Registration
- Home
- User Profile
- Wishlist
- Cart
- Search
- Book View
- Purchase

1. Login :

This page is for the user to login to their account. Here the user will have to input their 10-digit mobile number and an OTP will be provided each time to login instead of a consistent password.

2. Registration :

This page is for user registration. The user will have to enter the following details

- Phone number
- Verify Phone number (Through OTP)
- email
- Verify email (Through OTP)
- Full Name

- Address :
 - Address Line 1
 - Address Line 2
 - City
 - State
 - Zip-code

3. Home :

This is the default page i.e. the starting point for the user, the user will be able to browse books here and login if they want to purchase books, track orders, etc. The website's contents will be accessible from here.

4. User Profile :

The user profile will contain the details of the users such as the shipping address, Alternate address, Order history, etc. The details of the user can be updated by the user as per their requirements.

User Profile sub-pages :

- User Details
- Order Details

5. Wishlist:

This contains the books selected by the users that they want to purchase later.

6. Cart :

On Clicking the cart option, the user would be redirected to his cart i.e the list of items i.e. books that the user is planning to purchase.

7. Search :

Search Page can be used to browse for a specific book or author in the website.

8. Book View :

This page will contain details about the books. It will contain the following details:

- Book Cover
- Book Details :
 - Name
 - Author
 - Description
 - Publisher
 - Publication year
 - Language
 - Genre
 - No. of pages.
 - Price
- Add to cart
- Add to wishlist

9. Purchase :

This page would be connected to the payment gateway API and the user will have to make payment here to confirm their purchase.

Chapter 3

Plan of Dissertation execution

Firstly we will be designing an User friendly User Interface by using the software Figma. The theme for the project was Lavender in accordance with the theme used for the main site of Janardan Swami Yogabhyasi Mandal.

The database for the project was decided as Firebasefirestore as it is a cloud database and supports NoSQL transactions and CRUD operations. The database design, flow chart and data flow diagram were developed using the excalidraw software.

For collabrative developement the software Git for Version control and Github as the cloud repository for the project was decided. Visual Studio code and WebStorm were the IDE's used for development,

The tech-stack decided for the project is as follows:

- HTML
- Tailwind CSS
- Vue.js
- Firebasefirestore
- Razorpay (Payment's API)

Chapter 4

References

1. <https://tailwindcss.com/>
"Tailwind CSS is a utility-first CSS framework for rapidly building custom user interfaces."
2. <https://firebase.google.com/>
"Firebase website provides a cloud database with NoSQL support and User Authentication."
3. <https://vuejs.org/>
"Vue.js is a progressive Javascript framework which is an approachable, performant and versatile framework for building web user interface."
4. <http://www.figma.com/>
"This is a website for collaborative designing and UI Analysis."
5. <http://github.com/>
"Github is cloud storage platform for the version control system 'git' which can be used for collaborating on projects with team."