Here’s a similar document for a News Website using Python Django with Admin and Client Panels. The structure and content are adapted to fit a news website project.

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APNA NEWS

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Group No: IMCA\_9\_G10

Under the Guidance of: Pratvi Ma’am

Submitted To:

L.J. Institute of Computer Application

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Acknowledgement

It is our privilege to express our sincerest regards to our faculty and project guide, Prof. Pratvi Soni, for their valuable inputs, able guidance, encouragement, whole-hearted cooperation, and constructive criticism throughout the duration of our project. We deeply express our sincere thanks to our Head of Director, Dr. Monica Gahlawat, for encouraging and allowing us to present the project on the topic “Apna News” at our department premises for the partial fulfilment of the requirements leading to the award of the Integrated Master of Computer Application (IMCA) degree. We take this opportunity to thank all our lecturers who have directly or indirectly helped our project. Last but not least, we express our thanks to our friends for their cooperation and support.

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1. Introduction

1.1 Existing System

- Traditional news websites often lack personalized content delivery.

- Users face difficulty in filtering news based on their interests.

- Limited interaction between readers and news publishers.

1.2 Need for the New System

- To provide a personalized news feed based on user preferences.

- To enable easy navigation and filtering of news categories.

- To allow users to interact with news articles through comments and likes.

1.3 Objectives of the New System

- To create a user-friendly news platform.

- To provide real-time news updates.

- To allow admins to manage news articles efficiently.

1.4 Problem Definition

- The current system lacks personalization and user interaction features.

1.5 Core Components

- User Module:

- User Registration and Login

- Personalized News Feed

- Comment and Like Features

- Admin Module:

- Manage News Articles

- Manage Categories

- Manage User Feedback

1.6 Project Profile

- Project Title: Apna News

- Components/Modules: Admin, User

- Institute Name: L.J. Institute of Computer Applications

- Duration: 3 Months

- Project Internal Guide: Prof. Pratvi Soni

- Software Used:

- Framework: Django

- Backend: Python, SQLite

- Operating System: Windows/MacOS

- Team Members:

- Tatva Shah (ICA-49)

- Umang Patel (IET-42)

- Aryan Panchal (ICA-19)

1.7 Assumptions and Constraints

- The system assumes users have internet access.

- Admins are responsible for maintaining accurate news content.

1.8 Advantages and Limitations

- Advantages:

- Personalized news feed.

- Easy navigation and filtering.

- Real-time updates.

- Limitations:

- Dependency on admin for news updates.

- Limited offline functionality.

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2. Requirement Determination and Analysis

2.1 Requirement Determination

- Functional Requirements:

- User Registration and Login

- News Article Management

- Comment and Like Features

- Non-Functional Requirements:

- Scalability

- Security

2.2 Targeted Users

- Readers: Browse and interact with news articles.

- Admins: Manage news content and user feedback.

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3. System Design

3.1 Use Case Diagram

- Admin: Manage News, Manage Categories, Manage Users.

- User: Register, Login, Browse News, Comment, Like.

3.2 Class Diagram

- Classes: User, NewsArticle, Category, Comment.

3.3 Interaction Diagram

- Admin: Add/Update/Delete News Articles.

- User: Browse News, Add Comments.

3.4 Activity Diagram

- Admin: Manage News Articles.

- User: Browse and Interact with News.

3.5 Data Dictionary

- Tables: User, NewsArticle, Category, Comment.

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4. Development

4.1 Coding Standards

- Follow PEP 8 guidelines for Python.

- Use Django’s built-in security features.

4.2 Screenshots

- Admin Panel: Manage News, Categories, Users.

- User Panel: Browse News, Comment, Like.

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5. Agile Documentation

5.1 Agile Project Charter

- Mission: To deliver a user-friendly news platform.

- Vision: To become the go-to news website for personalized content.

5.2 Agile Roadmap

- Sprints:

- Sprint 1: Project Setup

- Sprint 2: User Module

- Sprint 3: Admin Module

- Sprint 4: Testing and Deployment

5.3 Agile Project Plan

- Tasks:

- User Registration and Login

- News Article Management

- Comment and Like Features

5.4 Agile User Story

- As a User, I want to browse news articles so that I can stay updated.

- As an Admin, I want to manage news articles so that I can keep the content fresh.

5.5 Agile Release Plan

- Release 1: Basic News Feed

- Release 2: Comment and Like Features

- Release 3: Personalized News Feed

5.6 Agile Sprint Backlog

- Sprint 1: Project Setup

- Sprint 2: User Module

- Sprint 3: Admin Module

5.7 Agile Test Plan

- Test Cases:

- User Registration

- News Article Management

- Comment and Like Features

5.8 Earned-Value and Burn Charts

- Charts: Track progress across sprints.

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6. Proposed Enhancements

- Implement AI-based news recommendations.

- Add a dark mode for better user experience.

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7. Conclusion

The Apna News project aims to provide a personalized and interactive news platform. By leveraging Django’s powerful features, we have created a scalable and user-friendly system.

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8. Bibliography

8.1 Site References

- Django Documentation: https://docs.djangoproject.com/

- Bootstrap Documentation: https://getbootstrap.com/

- Python Documentation: https://docs.python.org/

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This document provides a comprehensive overview of the Apna News project, including its objectives, design, development, and future enhancements. Let me know if you need further assistance! 😊