

COLLEGE CODE: 953

COLLEGE NAME: ST.Mother Theresa engineering College

NM-ID ROLL NO: EC8D34823539226A7E44FC8D182401DF

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Completed the project named as Phase 2

PROJECT NAME: Real time stock Tiker

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1. System Architecture Overview

The system will be a web-based WordPress application that integrates external APIs and plugins to provide a real-time stock ticker and dynamic user interaction features. It consists of the following layers:

Frontend (UI Layer):

WordPress-based theme.

Real-time stock ticker widget (JavaScript + AJAX/WebSockets).

Blog post pages with dynamic comments and review sections.

Backend (Business Logic Layer):

WordPress REST API.

Integration of review and comment plugins.

Custom plugins or themes for stock ticker display and comment moderation.

External APIs:

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Stock Price APIs (Alpha Vantage, Yahoo Finance).

WordPress REST API for comments/ posts.

2. Key Components and Their Roles

Component Description

Real-time Stock Ticker Widget Fetches stock prices from external APIs and displays them dynamically without page refresh (via AJAX/ WebSocket).



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Comment & Review Plugin Allows users to comment on posts and rate stock discussions in real time.

Admin Moderation DashboardAdmin interface to review, approve, edit, or

delete inappropriate comments and reviews.

API Integration Handles external stock price API calls and interacts with the WordPress REST API to manage posts/comments. Responsive Design Ensures the application adapts to various screen sizes (mobile, tablet,

3. Database Design

desktop).

Posts Table (WordPress native)

Post ID. Title, Content, Date, Author, etc.

Comments Table (WordPress native)

Comment ID, Post ID, Author, Content, Status (approved/pending), etc.

Review Table (Custom or Plugin-managed)

Review ID, Post ID, User ID, Rating (1-5), Review Text, Date.

4. API Flow Example

