# Project Documentation

## 1. Project Overview

Project Name: Contest Tracker

Description: A responsive web application designed to track and manage coding contests, allowing users to bookmark contests and administrators to upload YouTube links and contest names.

### Features:

- Retrieve and categorize contests into past and upcoming events.

- Bookmark functionality enabling users to mark favorite contests.

- Admin panel for uploading YouTube links and contest details.

- Responsive design ensuring optimal viewing across devices.

## 2. Technology Stack

- Frontend: React.js

- Backend: Node.js with Express.js

- Database: Mongo DB

## 3. Application Structure

Backend (Server):

- Models: Define data schemas for contests and bookmarks.

- Routes: Handle API endpoints for contest retrieval, bookmarking, and admin uploads.

- Controllers: Contain business logic for processing requests and interacting with the database.

Frontend (Client):

- Components: Reusable UI components such as Navbar, ContestCard, and AdminPanel.

- Pages: Main views like Home, Past Contests, and Admin.

- Services: Manage API calls to the backend.

## 4. Key Functionalities

### Contest Retrieval and Categorization:

Fetch contests from the database and categorize them as past or upcoming based on the current date.

### Bookmark Feature:

Allow users to bookmark contests by clicking a star icon, with visual indicators for bookmarked items.

### Admin Panel:

Provide administrators with a form to upload contest names and corresponding YouTube solution links.

### Responsive Design:

Implement CSS media queries and flexible layouts to ensure the application is accessible on various devices.

## 5. API Endpoints

- GET /api/contests: Retrieve all contests.

- POST /api/contests/bookmark: Bookmark or unbookmark a contest.

- POST /api/admin/upload: Admin endpoint to upload contest details and YouTube links.

## 6. GitHub Repository

Repository Link: https://github.com/shaik-hafija/Contest-Tracker

Contents:

- README.md: Overview, setup instructions, and usage guidelines.

- /backend: Server-side code with models, routes, and controllers.

- /frontend: Client-side code with React components and assets.

## 7. Video Demonstration

Overview Video: <https://youtu.be/ilQSmL_LK0E>

A walkthrough of the application's features and functionalities.