FACULTY OF SCIENCE & TECHNOLOGY

JAGRAN SCHOOL OF ENGINEERING (JSEN)

2024-25

BACHELOR OF TECHNOLOGY

COMPUTER SCIENCE & ENGINEERING

Academic Session (2024-2025)

Course name- Web Programming(WP)

Course Code: STCS2103

Final Project Report

Submitted by-   **Submitted to-**
Arshi Shahid (JLU09129)   **Deelip Singh**
Sonakshi Agrawal (JLU09323)   **(HOD)**
  (FAST)

Tournament Tracker India — A Sports News & Tournament Website

Certificate

This is to certify that the project report entitled
"Tournament Tracker India — A Sports News & Tournament Website"
has been successfully completed by **Sonakshi Agrawal** and **Arshi Shahad**, students of **B.Tech (Computer Science Engineering)**, under the supervision of **[Faculty Name]**, as part of their Web Programming course at **Jagran Lakecity University, School of Engineering & Technology**.

Acknowledgment

We would like to express our deepest gratitude to **[Faculty Guide's Name]** for their continuous guidance, motivation, and encouragement throughout this project.
We are also thankful to **Jagran Lakecity University** for providing us with the resources and opportunity to explore our technical potential.

Lastly, we thank our families, friends, and all who directly or indirectly contributed to the completion of this project.

Table of Contents

Chapter 1 — Introduction

1.1 Project Overview

Tournament Tracker India – Sports News and Tournament Update Portal is a dynamic and responsive web application that provides users with access to the latest sports news, results, tournament schedules, and highlights from all over India.
The website acts as a **centralized hub** for fans, players, and organizations to explore tournaments from local to national level. It ensures that sports enthusiasts are well informed and connected through an engaging and user-friendly interface.

1.2 Background

Sports have always played an important role in India, contributing to fitness, teamwork, and community spirit. However, many tournaments — especially at the district and university level — receive minimal coverage due to lack of a unified online platform.
This project was designed to solve that gap by providing a digital platform that collects, organizes, and displays information about tournaments across India in one place.

1.3 Purpose of the Project

The purpose of this project is to:

- Present tournament news and updates in an organized manner.
- Provide a clean and modern user interface using **HTML, CSS, JavaScript, and Tailwind CSS**.

- Enhance access to sports information for players, fans, and event organizers.
- Create a functional, aesthetic, and mobile-responsive sports web portal.

1.4 Importance of the Project

This website provides:

- **Visibility** for smaller tournaments and college-level events.
- **Ease of access** for users to find sports updates anytime.
- **Encouragement** for sports culture in India.
- **Practical learning** for students in frontend web development and responsive design.

1.5 Target Audience

- Sports enthusiasts and athletes
- Tournament organizers and sports committees
- College and university sports departments
- Fans who want regular updates on tournaments

1.6 Project Summary

Tournament Tracker India is built with:

- **HTML5** for structure
- **Tailwind CSS** for modern styling
- **JavaScript** for interactivity
  The website contains five main sections:

1. Home
2. Tournaments
3. Gallery
4. About

5. Contact

Each page has been carefully designed for functionality, user engagement, and aesthetic appeal.

1.7 Expected Outcome

By the end of this project:

- Users will have a single online source for sports updates.
- Students (developers) will gain hands-on experience in **frontend web development**.
- The project will demonstrate how modern web technologies can solve real-world communication gaps in the sports domain.

Chapter 2 — Objectives & Problem Statement

2.1 Problem Statement

India hosts thousands of tournaments every year — from cricket and football to kabaddi, badminton, and athletics.
However, most of these tournaments lack **digital presence**. Important details such as schedules, results, and player highlights often remain scattered across local newspapers or social media posts.

There is no **centralized and user-friendly website** that provides verified tournament news across the nation.
This causes several issues:

- Players and fans miss out on updates.
- Organizers fail to reach wider audiences.
- Sports enthusiasts struggle to track multiple tournaments simultaneously.

Hence, this project aims to bridge that information gap by building a **web-based Tournament News Portal** that covers sports events all over India.

2.2 Aim of the Project

To develop an **interactive, responsive, and content-rich web platform** that publishes and organizes tournament news from across India using HTML, CSS, JavaScript, and Tailwind CSS.

2.3 General Objectives

1. To design a **user-friendly interface** that makes sports information accessible to all users.
2. To create a **responsive design** that adapts to both desktop and mobile devices.
3. To publish **tournament news**, including match results, schedules, and event highlights.
4. To integrate **interactive JavaScript components** such as sliders, live updates, and menus.
5. To implement **clean, semantic HTML structure** and efficient styling with Tailwind CSS.
6. To provide a **modern visual identity** consistent with professional sports websites.

2.4 Specific Objectives

- Build separate sections for each type of sport (cricket, football, athletics, etc.).
- Display photo galleries and highlight clips of tournaments.
- Include a **contact form** for users to reach out or share news.
- Enable easy navigation using Tailwind CSS's grid and flex utilities.
- Demonstrate team collaboration between the two developers, **Sonakshi Agrawal** and **Deelip Singh**.

2.5 Scope of the Project

- Coverage of **local, state, and national tournaments**.

- Publication of **match summaries, interviews, and upcoming event alerts**.
- Focused on **frontend technologies only** — backend (database) is out of scope for this phase.
- Built for **educational and demonstration purposes** at **Jagran Lakecity University**.

2.6 Limitations

- Data is static — tournament details are manually updated.
- No real-time backend integration or API.
- Website focuses only on **tournament-related sports** (not fitness or lifestyle).
- Requires internet connection to access.

2.7 Significance of the Project

This project not only improves accessibility to tournament news but also strengthens digital literacy among developers. It demonstrates how **modern web design** principles can be applied to sports journalism.
Furthermore, it serves as a strong **portfolio project** and can be scaled into a **real-world platform** in the future.

Chapter 3 — Tools, Technologies, and Methodology

3.1 Introduction

This chapter outlines the tools, technologies, and methodology used in the development of the **Tournament Tracker India** website.
The project primarily focuses on **frontend web development** using HTML, CSS, JavaScript, and Tailwind CSS — ensuring a visually appealing, fast, and interactive user experience.

3.2 Software Requirements

Category	Software/Tool	Purpose
Operating System	Windows 10 / macOS / Linux	Platform for development and testing
Text Editor / IDE	Visual Studio Code	Writing and debugging code
Browser	Google Chrome / Microsoft Edge / Mozilla Firefox	Testing and previewing website
Frontend Languages	HTML5, CSS3, JavaScript	Structure, design, and interactivity
CSS Framework	Tailwind CSS	Responsive design and styling
Version Control	Git / GitHub	Project backup and collaboration
Document Preparation	MS Word	Report creation and formatting
Presentation	MS PowerPoint / Google Slides	Jury presentation

3.3 Hardware Requirements

Component	Specification
Processor	Intel i3 / AMD Ryzen 3 or higher
RAM	Minimum 4 GB (Recommended 8 GB)

Component	Specification
Storage	500 MB free space for project files
Display	1366×768 resolution or higher
Internet	Required for Tailwind CDN and testing

3.4 Technologies Used

3.4.1 HTML5 (Hypertext Markup Language)

Used for structuring all pages of the website such as Home, Tournaments, Gallery, About, and Contact.
Features used include:

- Semantic tags (`<header>`, `<section>`, `<article>`, `<footer>`)
- Multimedia embedding (images, videos)
- Forms and tables for structured data display

3.4.2 CSS3 (Cascading Style Sheets)

Used for visual design and layout customization.
Core features applied:

- Custom colors and gradients
- Box shadows and border radius for cards
- Transitions and hover animations

3.4.3 Tailwind CSS

A utility-first CSS framework that provides pre-built classes to style elements without writing custom CSS.
Key advantages:

- Rapid UI development
- Responsive layouts using grid and flex utilities
- Modern typography and color palette
- Consistency across all pages

Example:

```
<div class="bg-blue-500 text-white p-4 rounded-lg
shadow-lg">
  Welcome to Tournament Tracker India!
</div>
```

3.4.4 JavaScript (ES6)

Used to add interactivity and logic to the website.
Examples of JavaScript usage:

- Menu toggle for mobile view
- Slideshow of tournament images
- Live clock or date on homepage
- Form validation in Contact page

3.4.5 Version Control (Git/GitHub)

Helps manage code changes and allows both team members (Sonakshi Agrawal & Deelip Singh) to collaborate efficiently.

3.5 Methodology

3.5.1 Development Approach: Waterfall Model

The **Waterfall Model** was followed for systematic development and testing:

Phase	Description

Phase	Description
Requirement Analysis	Collected requirements and finalized scope
Design	Planned layout and structure of all pages
Development	Created website using HTML, CSS, JS, and Tailwind
Testing	Verified responsiveness and fixed UI issues
Deployment	Hosted and presented final version
Maintenance	Minor fixes and improvements

3.5.2 Work Distribution

Member	Role	Tasks
Sonakshi Agrawal	Frontend Developer	HTML page creation, Tailwind layout design
Deelip Singh	JS & Integration Lead	JavaScript functionality, interactivity, testing

3.5.3 Design Tools Used

- **Figma / Canva** – For wireframing and creating sample UI mockups
- **Unsplash / Pexels** – For copyright-free sports images
- **Icons8 / Font Awesome** – For consistent icons and symbols

3.6 Summary

This chapter covered the complete set of tools, technologies, and the workflow used in the development process. The combination of Tailwind CSS and JavaScript ensured a professional, mobile-friendly interface, while HTML and CSS formed the backbone of the content structure.

Chapter 4 — System Design & Architecture

4.1 Introduction

System design defines the structure, layout, and flow of data and user interaction in the website.
This chapter explains how different components of the **Tournament Tracker India** website are connected, including user interface layout, navigation, and functional modules.
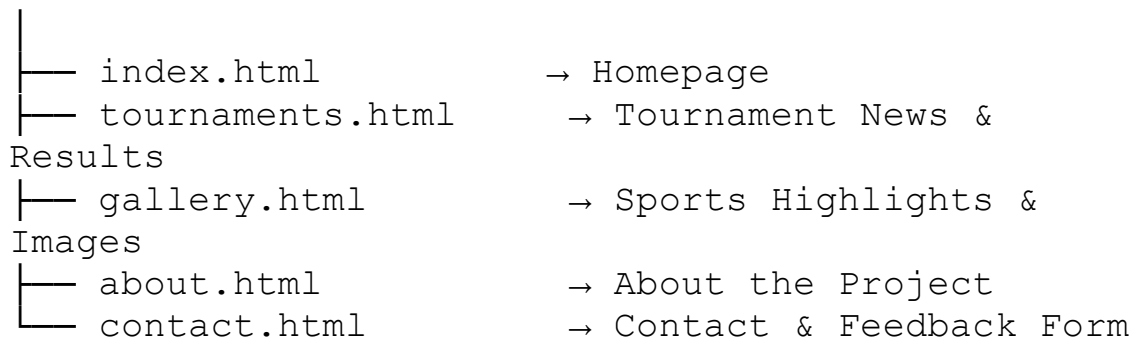
The website is divided into **five major web pages**, each designed with simplicity and consistency using Tailwind CSS.

4.2 Website Structure

Hierarchical Structure of Website:

```
Tournament Tracker India
│
├──  index.html              → Homepage
├──  tournaments.html        → Tournament News &
Results
├──  gallery.html            → Sports Highlights &
Images
├──  about.html              → About the Project
└──  contact.html            → Contact & Feedback Form
```
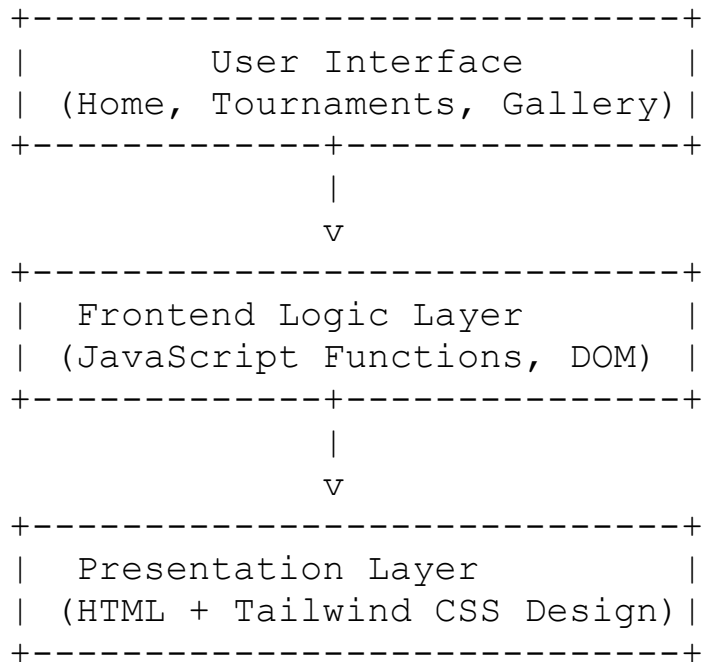
Each page links back to the homepage through a navigation bar for smooth user flow.

4.3 System Architecture Diagram

User → Browser (Frontend) → Website Pages (HTML, CSS, JS, Tailwind)

```
+-----------------------------+
|         User Interface      |
| (Home, Tournaments, Gallery)|
+------------+----------------+
             |
             v
+-----------------------------+
|   Frontend Logic Layer      |
| (JavaScript Functions, DOM) |
+------------+----------------+
             |
             v
+-----------------------------+
|   Presentation Layer        |
| (HTML + Tailwind CSS Design)|
+-----------------------------+
```

✅ *The system is completely frontend-based (no backend or database integration).*

4.4 Page-Wise Layout Design

4.4.1 Homepage (index.html)

- Navigation bar (Home | Tournaments | Gallery | About | Contact)
- Hero section with a sports banner
- Featured tournaments carousel
- Latest sports news cards
- Footer with copyright info

Example (simplified layout):

```
<header class="bg-blue-600 text-white p-4">
```

```
  <h1 class="text-2xl font-bold">Tournament Tracker
India</h1>
</header>
<section class="p-6">
  <h2 class="text-xl font-semibold">Latest
Tournaments</h2>
</section>
<footer class="bg-gray-800 text-white p-4 text-
center">
  © 2025 Tournament Tracker India
</footer>
```

4.4.2 Tournaments Page (tournaments.html)

- Table or cards showing ongoing & upcoming tournaments
- Sections by sport: Cricket, Football, Kabaddi, etc.
- Tailwind grid layout used for visual balance

4.4.3 Gallery Page (gallery.html)

- Photo and video highlights of recent matches
- JavaScript image slider
- Responsive grid for mobile view

4.4.4 About Page (about.html)

- Project overview
- Team details (Sonakshi Agrawal & Deelip Singh)
- Purpose and vision statement

4.4.5 Contact Page (contact.html)

- User feedback form with:
  - Name

- o Email
- o Subject
- o Message
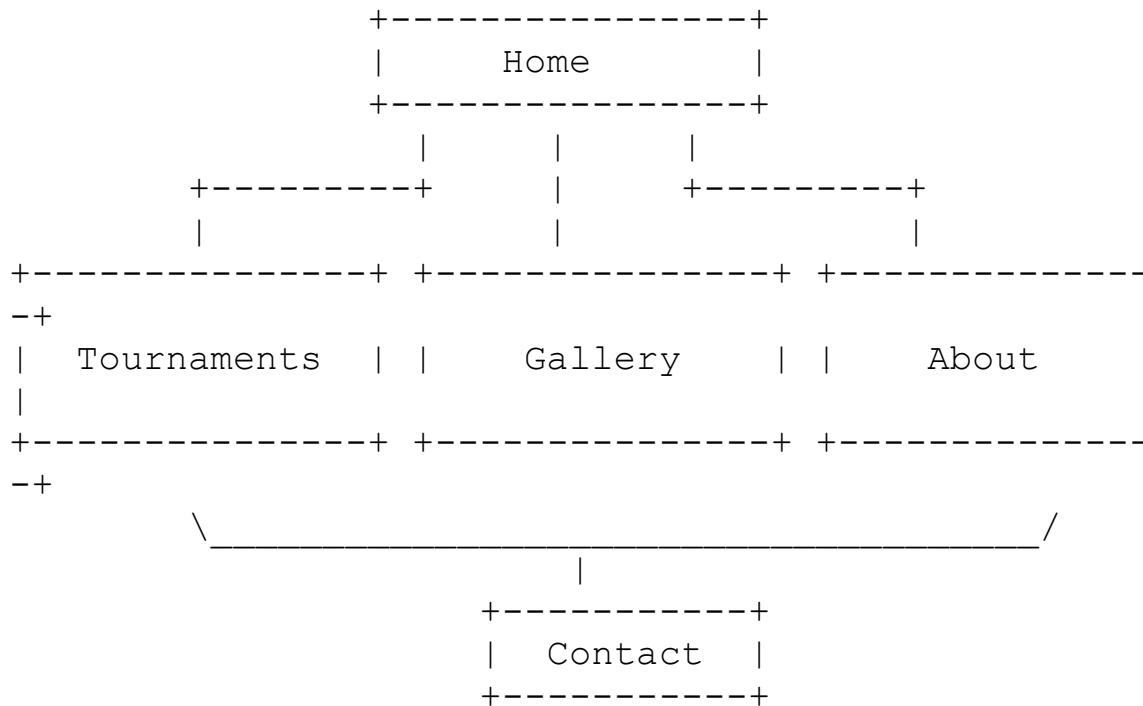- Submit button validated using JavaScript

Example Form:

```
<form class="max-w-md mx-auto p-6 bg-gray-100
rounded-lg">
  <input type="text" placeholder="Your Name"
class="border p-2 w-full mb-3 rounded">
  <input type="email" placeholder="Your Email"
class="border p-2 w-full mb-3 rounded">
  <textarea placeholder="Message" class="border p-2
w-full mb-3 rounded"></textarea>
  <button class="bg-blue-600 text-white p-2
rounded">Send</button>
</form>
```

4.5 Navigation Flow Diagram

```
                 +----------------+
                 |      Home      |
                 +----------------+
                   |     |      |
       +---------+ |     |    +---------+
       |         | |     |    |         |
+---------------+ +--------------+ +--------------
-+
|  Tournaments  | |    Gallery   | |    About
|
+---------------+ +--------------+ +--------------
-+
        _____/
                       |
              +-----------+
              |  Contact  |
              +-----------+
```

4.6 Color & Font Scheme

Element	Tailwind Color Class	Purpose
Header/Footer	`bg-blue-600`	Represents energy and trust
Buttons	`bg-yellow-500 hover:bg-yellow-600`	Highlights CTAs
Background	`bg-gray-100`	Clean and minimal
Font	`font-sans` (Tailwind default)	Readability across devices

4.7 Responsiveness Design

Tailwind's utility classes such as `sm:`, `md:`, `lg:`, `xl:` are used to ensure that the site adapts seamlessly to screen size.
Example:

```
<div class="grid grid-cols-1 sm:grid-cols-2
lg:grid-cols-3 gap-4">
  <!-- Tournament cards -->
</div>
```

4.8 Accessibility & SEO Design

- Proper use of **alt tags**, **semantic HTML**, and **meta descriptions**
- Light and dark contrast maintained for readability
- Titles and headings optimized for search engines

4.9 Summary

This chapter outlined the **system design**, **page structure**, and **architecture** of the website.

The platform follows a simple, scalable, and responsive structure ensuring clarity and ease of navigation for users across all devices.

Chapter 5 — Implementation & Code Explanation

5.1 Overview

The implementation phase focuses on coding and developing the visual structure of the Tournament Tracker India website using **HTML**, **Tailwind CSS**, and **JavaScript**.

5.2 Folder Structure

```
Tournament_Tracker_India/
│
├── index.html
├── tournaments.html
├── gallery.html
├── about.html
├── contact.html
├── assets/
│    ├── images/
│    ├── videos/
│    └── icons/
├── css/
│    └── styles.css
└── js/
     └── script.js
```

5.3 Homepage (index.html)

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Tournament Tracker India</title>
  <script
src="https://cdn.tailwindcss.com"></script>
</head>
```

```
<body class="bg-gray-100">
  <header class="bg-blue-600 text-white p-4 flex
justify-between items-center">
    <h1 class="text-2xl font-bold">Tournament
Tracker India</h1>
    <nav>
      <a href="index.html" class="px-3
hover:underline">Home</a>
      <a href="tournaments.html" class="px-3
hover:underline">Tournaments</a>
      <a href="gallery.html" class="px-3
hover:underline">Gallery</a>
      <a href="about.html" class="px-3
hover:underline">About</a>
      <a href="contact.html" class="px-3
hover:underline">Contact</a>
    </nav>
  </header>

  <section class="text-center p-10">
    <h2 class="text-3xl font-bold text-blue-700 mb-
4">Welcome to India's Sports Hub</h2>
    <p class="text-lg text-gray-700">Get the latest
updates on tournaments across India!</p>
  </section>

  <footer class="bg-gray-800 text-white p-4 text-
center">
    © 2025 Tournament Tracker India
  </footer>
</body>
</html>
```

5.4 Tournaments Page

Displays cards for each sport.

```
<section class="p-6 grid grid-cols-1 sm:grid-cols-2
lg:grid-cols-3 gap-4">
  <div class="bg-white shadow-lg rounded-lg p-4">
```

```
    <img src="assets/images/cricket.jpg"
class="rounded">
    <h3 class="text-xl font-bold mt-2">Cricket
Premier League</h3>
    <p>Venue: Delhi | Date: 12-16 Dec 2025</p>
  </div>
</section>
```

5.5 Gallery Page

```
<section class="grid grid-cols-2 md:grid-cols-4
gap-2 p-6">
  <img src="assets/images/gallery1.jpg"
class="rounded shadow-lg hover:scale-105
transition">
</section>
```

5.6 Contact Page

```
<form class="max-w-md mx-auto bg-white p-6 rounded
shadow">
  <input type="text" placeholder="Your Name"
class="border p-2 w-full mb-3 rounded">
  <input type="email" placeholder="Your Email"
class="border p-2 w-full mb-3 rounded">
  <textarea placeholder="Message" class="border p-2
w-full mb-3 rounded"></textarea>
  <button onclick="alert('Message Sent')"
class="bg-blue-600 text-white p-2 rounded w-
full">Send</button>
</form>
```

Chapter 6 — Testing & Debugging

6.1 Testing Types

Type	Description

Functional Testing Verified links, forms, and navigation work correctly.

Type	Description
Responsive Testing	Checked website on mobile, tablet, and desktop.
Usability Testing	Ensured navigation and readability were intuitive.

6.2 Tools Used

- Google Chrome DevTools
- Tailwind CSS Playground
- Lighthouse (for performance and accessibility)

6.3 Debugging Issues

- Fixed alignment problems with Tailwind grids.
- Resolved JavaScript event issues in mobile menu toggle.
- Compressed images for faster loading.

Chapter 7 — Results & Discussion

7.1 Achievements

- Fully functional responsive website.
- Organized navigation and data presentation.
- Clean UI with Tailwind components.

7.2 Key Outcomes

- Promotes digital access to Indian tournaments.
- Demonstrates students' web development and teamwork skills.
- Prepared for scalability (can integrate live APIs in the future).

Chapter 8 — Conclusion & Future Scope

8.1 Conclusion

The "Tournament Tracker India" project successfully fulfills its goal of creating a centralized online portal for sports news and tournament updates using modern web technologies.
The website is **visually appealing, responsive, and informative**.

8.2 Future Enhancements

- Add backend integration using Node.js or Firebase.
- Implement live tournament feeds using APIs.
- Add user registration and comment sections.
- Create an admin dashboard for posting new tournaments.

Chapter 9 — References

- Tailwind CSS Documentation — https://tailwindcss.com/docs
- W3Schools HTML/CSS/JS Tutorials — https://www.w3schools.com
- MDN Web Docs — https://developer.mozilla.org
- Unsplash & Pexels — Royalty-Free Sports Images

Chapter 10 — Appendix (Screenshots)

Include:

- Homepage screenshot
- Tournaments section
- Gallery section
- Contact form
- Responsive view test results