**Certificate of Completion  
This is to certify that [UMER, HASHAM, AADIL, HADI] has successfully developed and implemented the website sportsinfo.com in accordance with the requirements specified by Infocom.**

**Authorized by: MISS FARWA**

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# Problem Definition

**Infocom, a multinational company, builds informative websites on various topics. Due to the high workload of developers, the company requires assistance in developing sportsinfo.com, a website dedicated to providing detailed information on various sports. The goal is to create a user-friendly, informative, and visually appealing website that meets the company’s high standards.**

**Target Audience: Sports enthusiasts, students, and professionals looking for in-depth information about different sports.**

# Customer Requirement Specification

1. Home Page**: Includes a suitable logo and company branding.**
2. Menu Navigation**: Should contain all functionalities available on the website.**
3. Sports Information**: Provides details on the following sports:**
   * **Football**
   * **Judo**
   * **Tennis**
   * **Motorcycle Racing**
   * **Volleyball**
   * **Golf**
   * **Chess**
   * **Billiards**
   * **Badminton**
   * **Swimming**
   * **Athletics**
   * ***Additional sports may be included dynamically through CMS.***
4. Details per Sport**:**
   * **Number of players**
   * **Game strategy**
   * **Team-based or individual game**
   * **Rules of the game**
   * **Important facts (history, tournaments, records)**
   * **Images of players with clickable profiles**
   * **Countries where the sport is played**
5. Search Functionality**: Users can search for specific sports with filters such as by country, team, or player.**
6. Guestbook Feature**: Collects visitor details such as name, email, visit date, address, comments, recommendations, and ratings. *Spam prevention (e.g., CAPTCHA) should be implemented.***
7. About Us Page**: Introduces Infocom and its mission.**
8. Contact Us Page**: Displays company address and provides an email link to open the user's mail client.**
9. Professional UI Design**: Ensures a reputable and polished look suitable for Infocom’s brand.**

## Project Plan

1. **Requirement Analysis *(Week 1-2)***
2. **Designing E-R Diagrams and Database Schema *(Week 3)***
3. **Front-End and Back-End Development *(Week 4-10)***
4. **Testing and Debugging *(Week 11-12)***
5. **Deployment and Review *(Final week)***

## E-R Diagrams

***(Include Entity-Relationship diagrams representing the database structure, listing key entities such as Users, Sports, Players, Comments, Ratings.)***

## Algorithms

***(Describe the logic for key functionalities like searching sports, handling guestbook entries.)*  
Example: Search Algorithm for Sports:**

**Step 1: Receive user input (sport name, category, or keyword)**

**Step 2: Query database for matching results**

**Step 3: Return filtered results based on relevance**

**Step 4: Display results dynamically**

## GUI Standards Document

* **Primary Color: #0044cc (Blue)**
* **Font Style: Roboto, 16px for body text**
* **Button Design: Rounded with hover effects**

**Unit Testing Checklist**

* **✅ Verify sports search functionality**
* **✅ Ensure images link to player profiles correctly**
* **✅ Validate guestbook entries**
* **✅ Test responsiveness on multiple devices**
* **✅ Check email integration on Contact Us page**
* **✅ Perform security testing (SQL injection prevention, XSS protection)**

**Final Checklist**

* **✅ All pages and functionalities tested**
* **✅ UI aligns with company standards**
* **✅ Database operations work as expected**
* **✅ Website is optimized for speed and performance**
* **✅ Deployed successfully and reviewed by stakeholders**

**End of Document**