UNIT 4

Task 2

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Project Introduction:

- **Project name**: Resala University
- **Description**: The University Competitions Website is designed to be a central hub for students to register in competitions. This website allowing easy data management and event organization for university staff (admins) while providing students with a smooth and organized registration experience

1st- Objectives of the Website:

Ease of Registration: Simplify the process of registering for competitions for both individuals and team members

Admin Control: Provide a dashboard for admins to monitor participants, manage competitions, and track information

Organized Competition Display: Feature a user-friendly layout to display competitions in multiple categories

Secure System: Protect users data and manage authorized access using secure login features

2nd - SDLC Process

The development process follows the Software Development Life Cycle (SDLC) steps, ensuring that each phase builds a fully functional and well-tested website

2.1. Requirements Analysis

Identify the primary users: university students and admin

Define essential functionalities, such as user registration and dashboard, competition management for admins, and secure data handling

2.2. System Design

<u>UI/UX Design</u>:

Design a user-friendly interface for students and a clean, organized dashboard for admins using Bootstrap for styling

<u>Database Structure</u>: Set up tables for users, competitions, teams, and admins
Define relationships between tables to manage individual and team registrations.

2.3. Development (Coding)

< Front-End > :

Use HTML, CSS and Bootstrap to create forms for registration and competition details

Responsive and visually appealing layout design for all types of users

< Back-End > :

Use PHP to handle user sessions, database connectivity, form submissions, and data processing
Implement secure login and session management for the admin dashboard

< Database > :

Implement MySQL for data storage, with tables for admins, individuals and teams

2.4. Testing

<u>Functionality Testing</u>: Ensure all forms, buttons, and navigation links work as expected

<u>User Authentication Testing</u>: Verify that the admin login allows only authorized users and those users are redirected appropriately based on their role

<u>Data Validation</u>: Ensure that user data is validated to prevent errors and security problems

How to launch the website:

1- Install a local server like XAMPP to run PHP and MySQL locally

2- Create a Database by phpMyAdmin from your local server (localhost/phpMyAdmin)
   and name it "resala_uni"

3- Make a 3 tables admins, individuals and teams

4- Look at this structure and do it:

5- To Sign up as admin you should Insert a username and password in admins table first by
   phpMyAdmin , after that you can enter as admin in the website

6- Now you can run the website in your browser by (localhost/your-folder-name)

5. Conclusion

The University Competitions Website offers a structured and secure platform for managing student competitions, with an emphasis on usability for students and comprehensive control for admins. By following the SDLC stages, the development process was organized and ensured a functional, reliable, and user-friendly website.