A

Laboratory Course Report On

Full Stack Development (LAMP / MEAN)

(BTCOL705)

"Sports Blog"

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1. **Title of Project:** Sports Blog

2. **Project Abstract:** A Sports Blogging website which mainly focuses on articles on latest updates and stories in the world of sports. The website will display personalised content as per the user's interest and activity. Users can check these stories or also can give their own inputs and write their own blogs. The registered users can follow each other to see the content of their liking. Apart from these blog articles, the website will also display real-time live scores of ongoing matches across a variety of different sports.
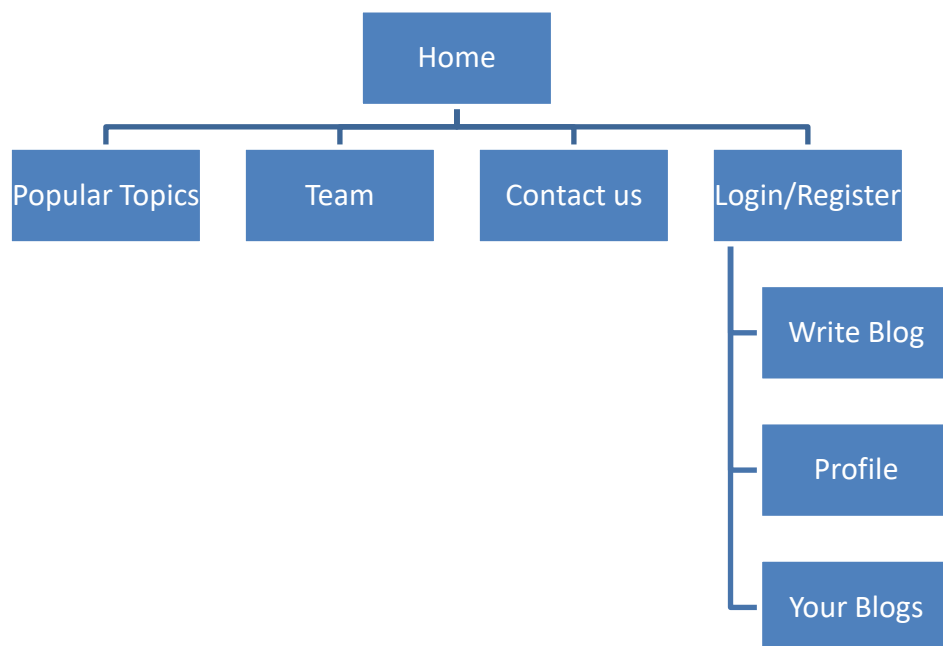
3. **Objectives:** The website is built to bring daily updates and sports articles to the users. The users can contribute as well by writing these blogs.

4. **Scope:** As already discussed, the website would attract sports enthusiasts. The blog-writers can write extensive content using the embedded TinyMCE text editor.

5. **Software and Hardware Requirements:**

    *   Software Requirements

        o   Minimum Windows 7 or equivalent.

        o   Chrome Web Browser

    *   Hardware Requirements

        o   Minimum Intel i3 processor or equivalent

        o   Minimum 4GB RAM

        o   Minimum 4GB Storage

6. **SITEMAP:**

7. Website Content:

Menu	Description	Submenus	Description
Popular Topics	Shows trending blogs and articles for different sports.	Cricket	Cricket blogs
		Football	Football blogs
Our Team	Team members information	-	-
Contact us	Contact information	-	-
Log in/ Register	Log into account	Write Blog	To add new blog
		Profile	User profile info
		Your Blogs	Already written blogs

8. Database Schema

8.1 Database Name: Sports_Blog

8.2 Tables in Database:

8.2.1 Table 1 Name: users

Column Name	Data Type	Description	Primary Key/ Foreign Key	Is Null?
User_id	Int	ID of the user	Primary Key	No
Username	Varchar	Username	-	No
User_email	Varchar	Email ID of user	Forein Key	No
User_password	Varchar	Password of account	-	No

8.2.2 Table 2 Name: posts

Column Name	Data Type	Description	Primary Key/ Foreign Key	Is Null?
User_email	Varchar	Email ID of user	Primary Key	No
Content	Varchar	Blog Body	-	No
Created	Date Time	Time of Creation	-	No

8.2.2 Table 2 Name: image

Column Name	Data Type	Description	Primary Key/ Foreign Key	Is Null?
Id	int	ID of image	Primary Key	No
Filename	Varchar	Image file name	-	No

9. **SQL Queries:**

- The INSERT INTO statement is used to insert new records in a table.

  INSERT INTO *table_name* (*column1*, *column2*, *column3*,   ...)
  VALUES (*value1*, *value2*, *value3*, ...);

- The SELECT statement is used to select data from a database. The data returned is stored in a result table, called the result-set.

  SELECT column1, column2, ...

  FROM table_name;

10. **Validation Example:** For example, if the user enter an invalid email format, you can show an error message immediately before the user move to the next field, so the user can correct every field before they submit the form. Mostly the Client Side Validation depends on the JavaScript Language, so if users turn JavaScript off, it can easily bypass and submit dangerous input to the server. so the Client Side Validation can not protect your application from malicious attacks on your server resources and databases.

11. **PHP super-global variables Used:** Global variables are declared outside any function, and they can be accessed (used) on any function in the program. Local variables are declared inside a function and can be used only inside that function. It is possible to have local variables with the same name in different functions.

12. **CSS @Keyframes Rule:** The @keyframes rule specifies the animation code. The animation is created by gradually changing from one set of CSS styles to another. During the animation, you can change the set of CSS styles many times.

```
@keyframes mymove {
  0%   {top: 0px;}
  25% {top: 200px;}
  50% {top: 100px;}
  75% {top: 200px;}
  100% {top: 0px;}
          }
```

13. User Roles/ Stakeholders:

1) Bloggers - Users interested to write and publish content can do so.
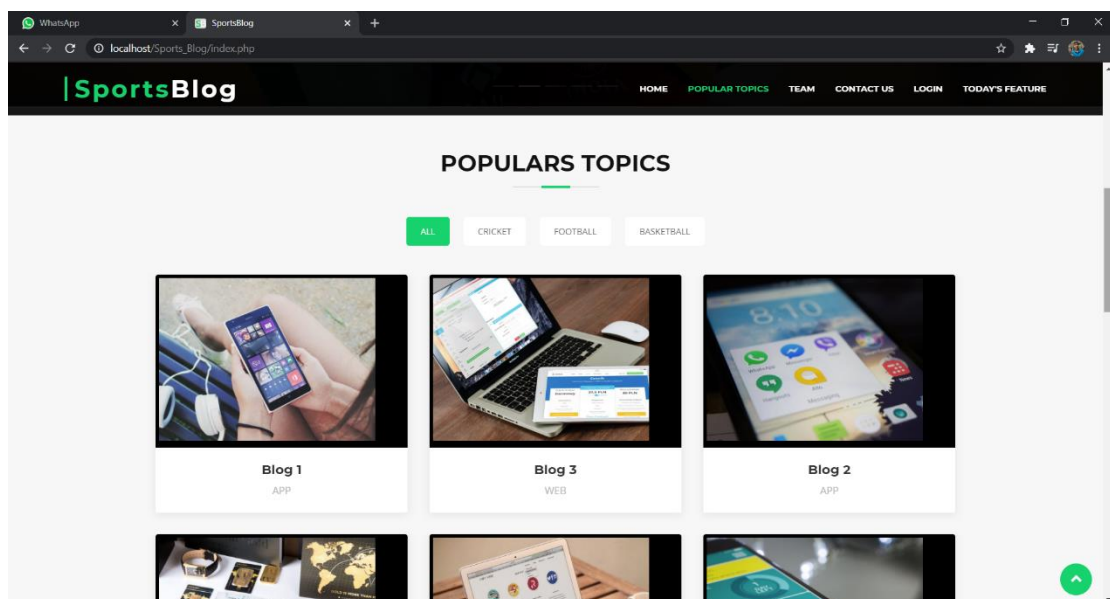2) Sports Enthusiasts - Users who want to stay updated about the ongoing events in sports.

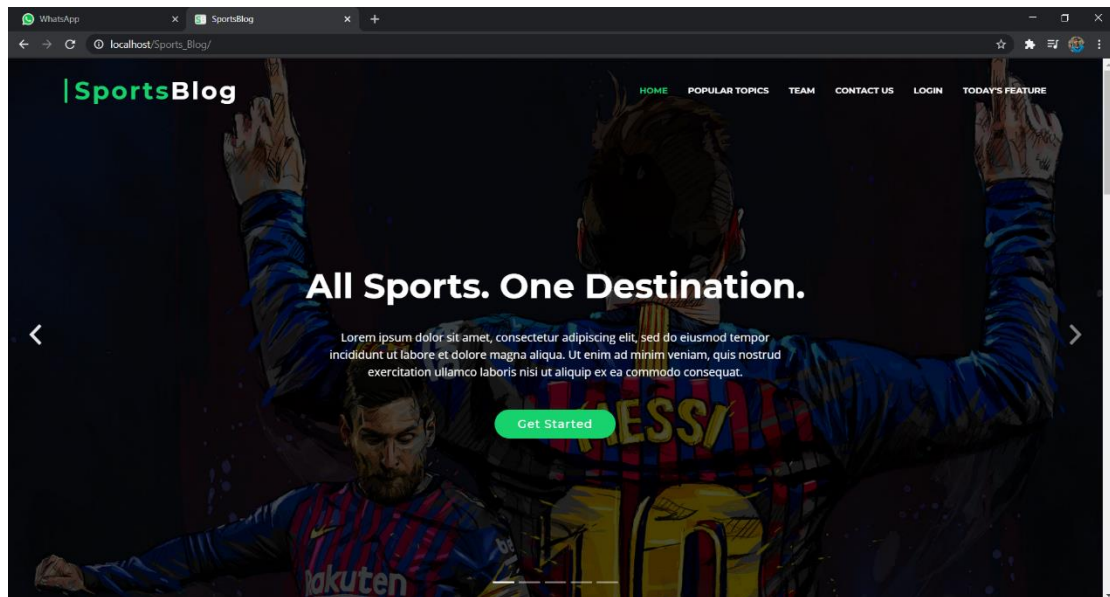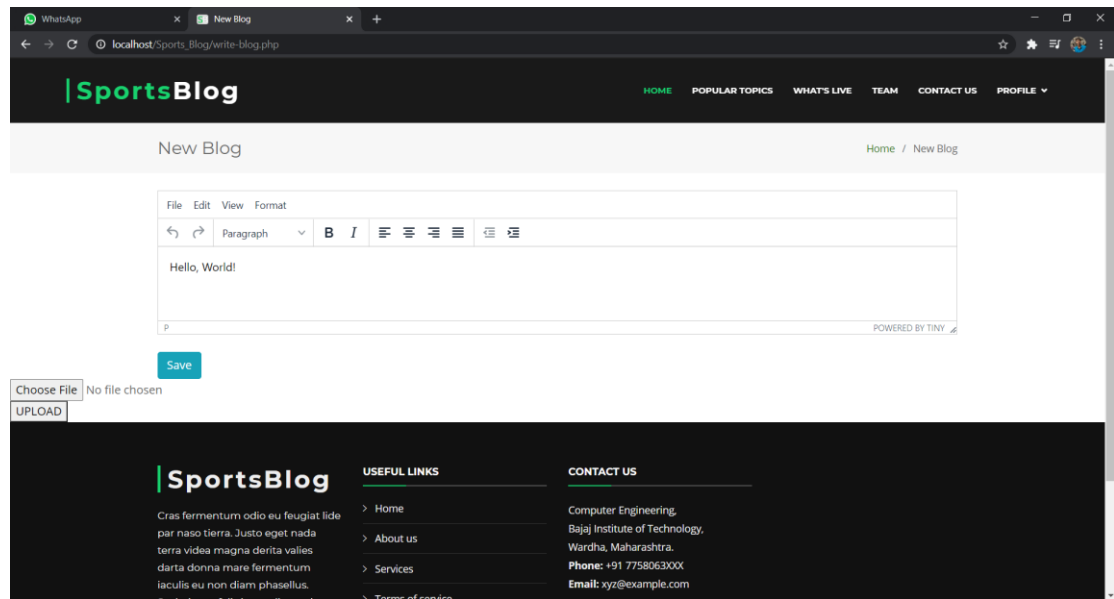### 14. HTML 5:

<div>	It defines a division or section within HTML document.
<form>	It is used to define an HTML form.
<script>	It is used to declare the JavaScript within HTML document.
<section>	It defines a generic section for a document.
<textarea>	It is used to define multiple line input, such as comment, feedback, and review, etc.

15. CSS:

Animation-duration	Specifies how long an animation should take to complete one cycle
Background-image	Specifies one or more background images for an element
Border-radius	A shorthand property for the four *border-*-radius* properties
@keyframes	Specifies the animation code
transform	Applies a 2D or 3D transformation to an element

16. Snapshots:

17. Group Members:

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