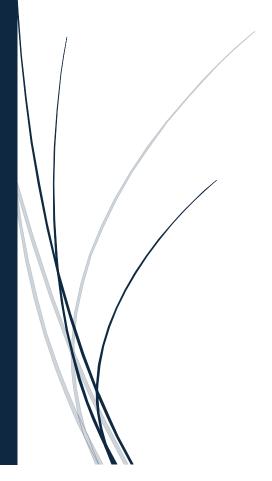# Tech-Talks

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DEPI : FINAL PROJECT

1. User Guide

1.1. Introduction to Tech Talks

This section provides an overview of the Tech Talks platform, including:

- **Purpose**: Tech Talks is an online news platform dedicated to sharing the latest updates, trends, and discussions in the tech world. It allows users to stay informed and engage with the content by commenting on articles.

- **Target Audience**: Tech enthusiasts, developers, industry professionals, and anyone interested in technology.

- **Main Features**: News articles, user comments, and a future feature for users to submit their own posts.

1.2. User Registration and Login

User Registration:

- **Steps**:

    1. Go to the home page and click on the "Sign Up" button located in the top right corner.

    2. Fill in the required fields: username, email, and password.

    3. Accept the terms and conditions .

    4. Click the "Register" button.

Login Process:

- **Steps**:

    1. Click on the "Login" button at the top right.

    2. Enter your registered email/username and password.

    3. Press "Log In" to access your account.

Password Recovery:

- If you forget your password, click on the "Forgot Password" link below the login form.

- Enter your registered email to receive a password reset link.

- Follow the instructions in the email to create a new password.

1.3. Browsing the Website

Navigating the Homepage:

- The homepage provides quick access to the latest news and popular tech articles. It also features categories such as "Latest News" and "Trending Topics."

Categories:

- Articles are organized by categories like **Tech News** [AI , Security , Computing , Internet], **Events** ,**Tech in Egypt** and **Jobs** and more. Users can explore these categories from the main menu.

Search Functionality:

- There is a search bar in the top-right corner, where users can search for specific articles or topics.

Breadcrumb Navigation:

- Breadcrumbs help users keep track of their location on the site, displayed at the top of each article page, enabling easy navigation back to the main sections.

1.4. Commenting on Articles

Posting Comments:

- Only registered and logged-in users can post comments.
- At the bottom of each article, there's a comment section where users can write and submit their thoughts.

Steps to Post a Comment:

1. Scroll to the bottom of the article page.
2. If logged in, you will see a comment box. If not logged in, a prompt will appear to log in or register.
3. Type your comment into the text box.
4. Press the "Submit" button to post your comment.

Comment Guidelines:

- Be respectful and relevant to the article.
- Comments containing offensive language or spam will be removed.

1.5. Managing User Profile

Editing Your Profile:

- Once logged in, users can access their profile by clicking their username at the top-right of the page.
- In the profile section, users can:
  - **Update personal information**: Change username, email, or bio.
  - **Change profile picture**: Upload a new profile image.

1.6. Future Features (User Posting)

Introduction to User Posting:

- In future updates, registered users will be allowed to submit their own posts to the Tech Talks platform.

How It Will Work (once the feature is implemented):

- Users will see a "Submit Post" button in their profile.

- They will be able to create articles by filling out a form with a title, content, and relevant tags.

- Submitted posts will be reviewed by the admin before being published.

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2. Technical Guide

2.1. Setting Up Tech Talks on XAMPP

Introduction to XAMPP:

- **XAMPP** is a free and open-source cross-platform web server solution stack that provides a local server environment to run WordPress websites on your computer.

- It includes Apache (web server), MySQL (database), and PHP, which are required to run WordPress locally.

Steps to Set Up Tech Talks on XAMPP:

1. **Download and Install XAMPP**:

   - Go to the XAMPP official website and download the version suitable for your operating system.

   - Install XAMPP by following the installation wizard.

2. **Start Apache and MySQL**:

   - Open the XAMPP control panel.

   - Start the **Apache** and **MySQL** services by clicking the "Start" button next to each.

3. **Download and Install WordPress**:

   - Visit WordPress.org and download the latest version of WordPress.

   - Extract the downloaded WordPress files into the htdocs folder located in your XAMPP installation directory (e.g., C:\xampp\htdocs\TechTalks).

4. **Create a Database in phpMyAdmin**:

   - Open your browser and go to http://localhost/phpmyadmin.

   - Click on the **Databases** tab, then create a new database (e.g., techtalks_db).

5. **Configure WordPress**:

   o Navigate to http://localhost/TechTalks in your browser.

   o Follow the WordPress setup process:

      ▪ Select language.

      ▪ Enter the database details:

         ▪ **Database Name**: techtalks_db

         ▪ **Username**: root

         ▪ **Password**: *******

      ▪ Click **Submit** and run the installation.

6. **Set Up WordPress Admin Account**:

   o Provide site details such as the **Site Title**, **Admin Username**, **Password**, and **Email**.

   o After completing these steps, the local version of Tech Talks will be live on your computer.

2.2. Migrating from Localhost to Web Hosting

Preparing the Website for Migration:

- Before migrating the website, ensure that all content, plugins, and themes are updated.

Steps to Migrate Tech Talks from XAMPP to Web Hosting:

1. **Choose a Web Hosting Provider**:

   o Select a **hosetia** as hosting provider (e.g., SiteGround, Bluehost, etc.).

   o Purchase a hosting plan and set up your hosting account.

2. **Export the Local WordPress Database**:

   o Go to phpMyAdmin in XAMPP.

   o Select your WordPress database (techtalks_db), click on the **Export** tab, and choose the **Quick** export method.

   o Save the .sql file.

3. **Upload WordPress Files via FTP**:

   o Use an FTP client (e.g., FileZilla) to connect to your web hosting server.

   o Upload all WordPress files from your local htdocs/TechTalks folder to the /public_html/ folder on your web host.

4. **Create a New Database on the Hosting Server**:

- Log in to your web host's control panel (usually cPanel).

- Create a new database and user, then assign the user to the database with full privileges.

5. **Import the Local Database to the Live Server**:

   - In the hosting control panel, open phpMyAdmin, select your newly created database, and click **Import**.

   - Upload the .sql file you exported from the local database.

6. **Update the wp-config.php File**:

   - Edit the wp-config.php file in the root WordPress folder (in /public_html/) with your new database details:

define('DB_NAME', 'new_database_name');

define('DB_USER', 'new_database_user');

define('DB_PASSWORD', 'new_database_password');

define('DB_HOST', 'localhost');

7. **Configure the Domain and SSL**:

   - In the hosting control panel, configure your domain to point to the WordPress files.

   - Set up an SSL certificate to ensure secure browsing (most hosting providers offer free SSL).

8. **Test the Website**:

   - Visit your domain to ensure the website is functioning properly.

   - Check the database connection, permalinks, and any broken images/links.

2.3. Plugin Management and Configuration

Overview of Installed Plugins:

- **All in One SEO**: Optimizes your website's SEO settings.

- **Elementor**: Allows easy page building with a drag-and-drop interface.

- **LiteSpeed Cache**: Improves website performance by caching pages and reducing server load.

Activating, Deactivating, and Configuring Plugins:

- To manage plugins, go to the **Plugins** section in the WordPress dashboard.

- Click **Activate** or **Deactivate** next to any plugin to enable or disable it.

- For plugins like **LiteSpeed Cache**, configure settings for page optimization and caching to improve performance.

2.4. Backup and Maintenance

Regular Backups:

- Back up your website regularly to prevent data loss.
- Use plugins like **UpdraftPlus** or manually export the database and download WordPress files from the server.

Website Performance Optimization:

- Utilize the **LiteSpeed Cache** plugin to clear the cache and optimize loading times.
- Regularly update plugins and themes to ensure compatibility and security.

Maintenance Tasks:

- **Update WordPress Core**: update WordPress core whenever a new version is released.
- **Update Plugins and Themes**: Regularly check for updates and install them to keep the site secure and functional.
- **Clear Cache**: Periodically clear the website's cache to ensure that users see the most updated content.