UNIVERSITY OF MORATUWA
Faculty of Information Technology

B.Sc. in Information Technology & Management
Take Home Assignment

IN2120 – WEB PROGRAMMING

2025

Develop a **Blog Application** using **HTML, CSS, and JavaScript** for the frontend, **PHP** for the backend, and **MySQL** as the database. The project requirements are as follows.

1. User Authentication & Authorization
   - Users must be able to register, log in, and log out.
   - Only authenticated users can create, update, or delete their own blogs.
   - Authorization should ensure that a user cannot edit or delete blogs created by other users.

2. Blog Management
   - Users should be able to,
     - Add new blogs using a blog editor (Markdown editor can be used).
     - Read blogs (display all blogs on the home page).
     - Update their own blogs.
     - Delete their own blogs.

3. Frontend Features
   - Home page showing a list of blogs.
   - Single blog view page (showing blog content, author, and date).
   - Blog editor page for creating and updating blogs.
   - Responsive and clean UI using HTML, CSS, and JavaScript.

4. Database
   - At minimum, create the following tables,
     - user (id, username, email, password, role)
     - blogPost (id, user_id, title, content, created_at, updated_at)

5. Hosting Requirement
   - You must host your blog application online, so it is accessible via a public URL. (You can host the application on a free hosting platform such as InfinityFree, 000WebHost, or any other service)
   - Ensure the hosted version has the same features as your local version.

6. Demonstration Video
   - Record a 3-minute video demonstration of your project.
   - The video should show

- o User registration & login
- o Creating, updating, and deleting a blog
- o Viewing blogs (list + single blog view)
- o Hosted website access
- Save the video as an MP4 file.

7. Submission Instructions
   - Submit the full source code of your project.
   - Push your complete code to GitHub.
   - Create a PDF document containing,
     - o GitHub repository link.
     - o Hosted website link (must be working).
   - Put **the source code folder, the PDF file**, and **the demonstration video** into a single folder.
   - Rename the folder with your student index number.
   - Compress (zip) the folder and submit the zip file on or before the deadline.