Assignment Report: Static Website File Uploader using EC2 and S3

1. Problem Statement

The objective of this project is to build a basic cloud application using only essential AWS services: EC2 and S3.

The application will be a static website hosted on an EC2 instance where users can upload files, and those files will be stored in an S3 bucket.

This assignment demonstrates core cloud skills such as instance provisioning, configuring web servers, setting permissions via IAM, and managing object storage via S3 with minimal use of frameworks or advanced services.

2. Skills You Will Be Using

- AWS EC2: Launch and configure an instance to run a basic web server.

- AWS S3: Create a bucket and manage file uploads securely.

- IAM: Assign roles to grant EC2 access to S3.

- Linux CLI: For setting up the environment on EC2.

- Apache Web Server: Serve the static HTML and handle backend.

- HTML/CSS/JavaScript: Basic frontend for file upload.

- PHP or Shell Scripting: Simple server-side script to process file upload to S3.

3. Assignment Report Requirements

The final submission should include the following:

1. Title Page:
   - Project title, your name, AWS account ID (last 4 digits), and date.

2. Introduction:
   - A brief overview of the project, goals, and AWS services used.

3. Implementation Steps:

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  - Step-by-step documentation of EC2 setup, S3 bucket creation, and file upload logic.

4. Code Snippets:

  - HTML, JavaScript, and server-side scripts (PHP or Bash).

5. Screenshots:

  - EC2 console, S3 bucket, working web page, and file upload confirmation.

6. Conclusion:

  - What you learned from this assignment and how it helped you understand AWS basics.