Deployment Report - Data Redundancy Removal System

Developer Information

Name: Musharraf Perwez

Internship Domain: Cloud Computing

Organization: CodeAlpha

Project Summary

Project Name: Data Redundancy Removal System

Description: A Flask-based web system that identifies and removes redundant or duplicate entries from a database.

It ensures that only unique and validated data entries are stored. This solution enhances database accuracy and prevents false positives.

Tech Stack Used

Backend: Python (Flask)

Frontend: HTML, CSS (Inline in Flask templates)

Database: SQLite

Deployment: AWS EC2 (Ubuntu Server)

Web Server: Flask dev server (running on port 5000)

Version Control: Git, GitHub

Deployment Details

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Hosted on: AWS EC2 instance (Ubuntu)

Public IP: http://16.171.176.14

Access: Flask app publicly accessible via port 5000

Project Repo:

https://github.com/MusharrafPerwez-sam/CodeAlpha_DataRedundancyRemovalSystem

Structure:

- app.py

- database.db (SQLite)

- static/

- templates/

- requirements.txt

Features Implemented

- Data Validation Form

- Duplicate Entry Detection

- SQLite Integration

- Deployment on AWS EC2

- Clean Frontend using HTML templates

Security Measures

- HTTPS: No (runs on HTTP)

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- Auth/Login: No authentication implemented

- SQL Injection Protection: Minimal; basic input checks applied

GitHub Repo Overview

GitHub Link:

https://github.com/MusharrafPerwez-sam/CodeAlpha_DataRedundancyRemovalSystem

Files: app.py, templates/, static/, database.db, requirements.txt

Status: Functional, deployed online

Submission Summary

Tasks Completed: (Data Redundancy Removal System)

Live URL: http://16.171.176.14