SHRIDEVI HACKATHON 2024

TITLE PAGE

- **Theme : ENVIRONMENT**
- **College Name : AIT COLLEGE CHIKKAMAGALURU**
- **Team Members Name : VISHRUTH CS**

  VAISHNAVI CV

  VARSHINI KAKADE S

  CHANDANA M

PROBLEM STATEMENT

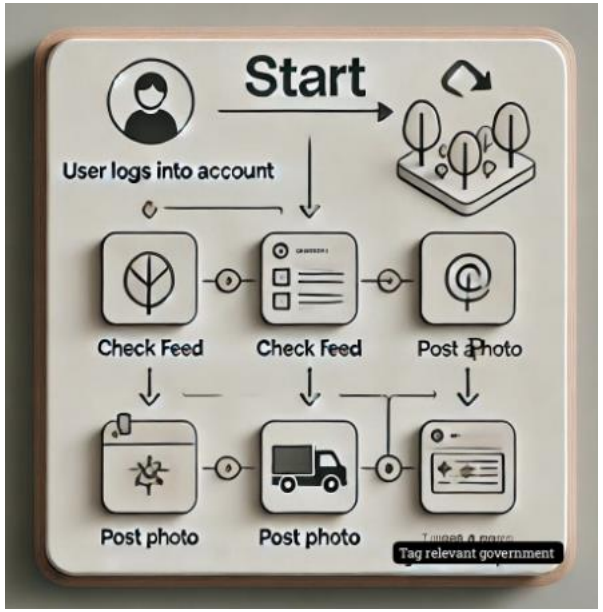
E12

❖ Proposed Solution (Describe your Idea/Solution/Prototype)

- To design and implement a platform for citizens to report pollution incidents, tag relevant government departments, and hold government departments accountable. Many citizens face challenges in reporting environmental pollution incidents effectively. Communication between citizens and government departments can be inefficient, leading to delays in addressing these issues and causing more pollution to the environment.
- Hence this project aims to improve the efficiency and effectiveness of environmental governance and enhance citizen participation in addressing pollution issues.

E12

TECHNICAL APPROACH



- Technologies used - Frontend:
  * HTML: To structure the web pages, including the login page, feed page.
  * CSS: To style the web pages to enhance visual appeal and user experience.
  * JavaScript: To handle user interactions, button clicks, and page navigation.

- Backend:
  *Python.
  * MongoDB: To store user data.

FEATURES

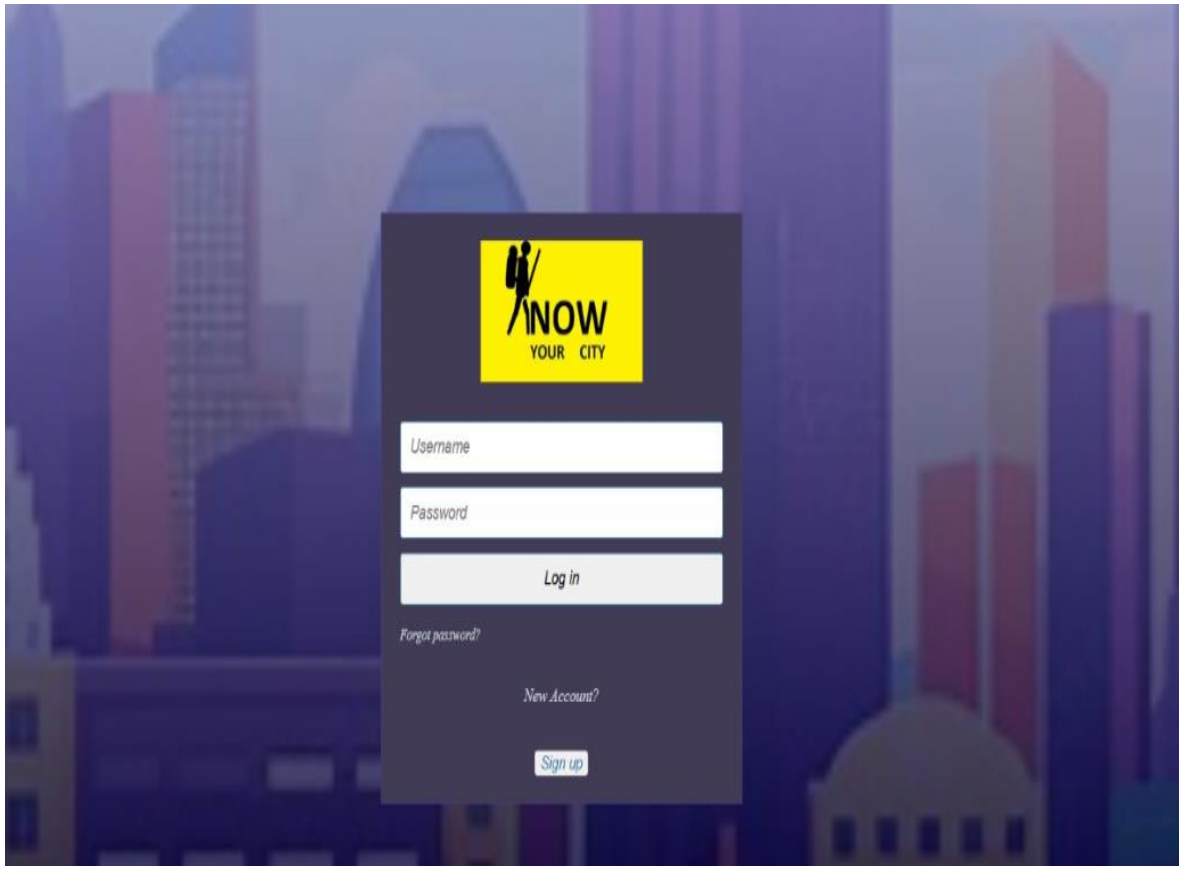
E12

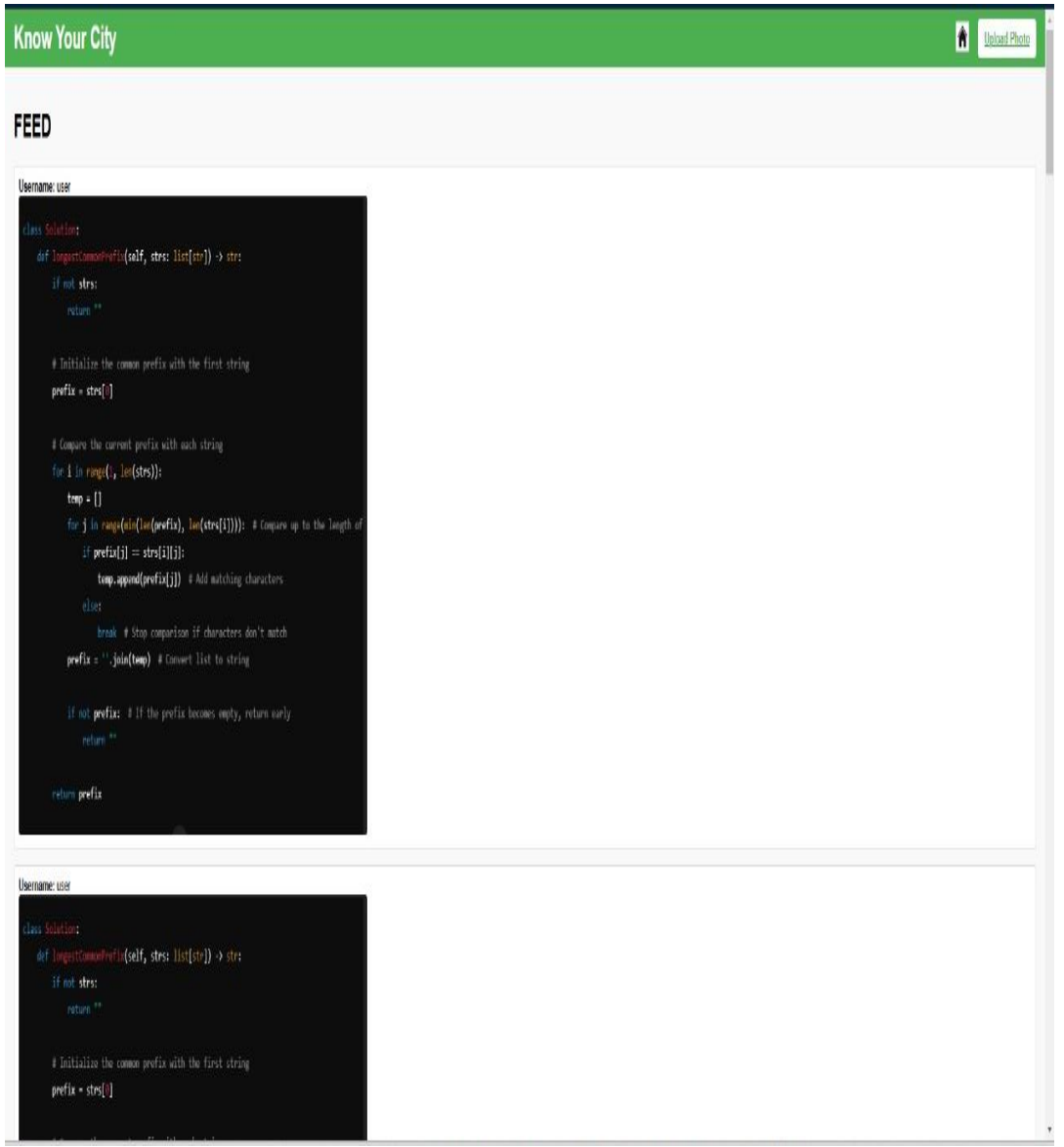
- **User-Friendly Interface:**
  1. Intuitive design for easy navigation.
  2.Options to attach images for better visualization.
- **Real-time Tracking:**
  1.A dashboard to monitor the status of submitted complaints/posts.
- **Geolocation and Mapping:**
  Accurate location tagging of the complaint using GPS
  Visual representation of complaints on the photo to identify pollution hotspots
- **Community Engagement and Collaboration:**
  Allow users to share issues, share experiences, and collaborate on solutions.

E12

CHALLENGES FACED

- **Database Integration**: Setting up MySQL and connecting the database with the Node.js server for handling user uploads and fetching posts.
- **File Upload and Storage**: Managing file uploads with Multer, ensuring that image data is stored correctly, and making it accessible in the feed.
- **Frontend-Backend Synchronization**: Fetching and displaying the feed dynamically and ensuring smooth data flow from the server to the client.


NOW
YOUR CITY
Username
Password
Log in
Forgot password?
New Account?
Sign up


Know Your City
Upload Photo
FEED
Username: user
class Solution:
def longestCommonPrefix(self, strs: List[str]) -> str:
if not strs:
return ""
# Initialize the common prefix with the first string
prefix = strs[0]
# Compare the current prefix with each string
for i in range(1, len(strs)):
temp = []
for j in range(min(len(prefix), len(strs[i]))): # Compare up to the length of
if prefix[j] == strs[i][j]:
temp.append(prefix[j]) # Add matching characters
else:
break # Stop comparison if characters don't match
prefix = ''.join(temp) # Convert list to string
if not prefix: # If the prefix becomes empty, return early
return ""
return prefix
Username: user
class Solution:
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if not strs:
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In the process of making the surrounding better…