

TOPIC: URL SHORTENER WEB APPLICATION

GOAL:

The goal of this project is to create a URL shortening app that shrinks longer URL's and the shortened URL can be used to access the respective URL page that it belongs to.

TOOLS REQUIRED:

Some of the tools that are required to carry out this project are

- Frontend
- Backend

FRONTEND:

The tools are techniques that are used to implement the frontend part of the project are

- HTML.
- CSS.
- Bootstrap.

BACKEND:

The tools are techniques that are used to implement the backend part of the project are

- Python (Application Server using Flask Framework).
- SQL Alchemy (Database).

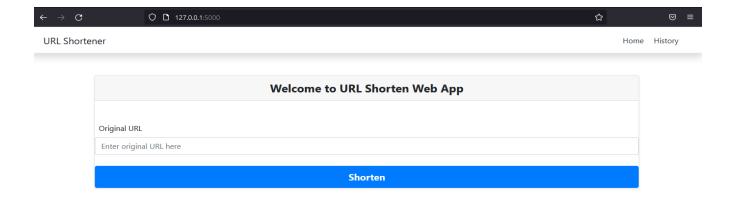
EXPLANATION:

The project directory consists of the following files

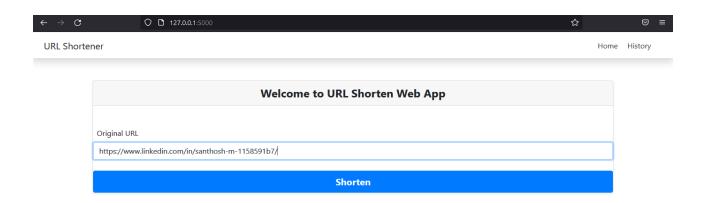
- -- URL_Shortener_App (Folder)
 - ---- Migrations (Folder)
 - ---- Static (Folder containing CSS and JavaScript Files)
 - ---- Templates (Folder containing the HTML templates)
 - ---- app.py (Contains the backend part of the project)
 - ---- data.sqlite (Database file)

HOME PAGE:

 The home page of this project contains a text box were the user must enter or paste the URL that they need to shorten. This is what the home page looks like.



 After reaching this page the user must paste the URL at the text box and press the Shorten button to get the shortened URL. I had pasted my LinkedIn profile URL so I can shorten it.



 After I had pressed the shorten button, I will get the shortened URL for the pasted long URL.



 I can copy the URL using the copy button present at this page and use it to reach my LinkedIn profile page.

HISTORY PAGE:

- I can also find all my previously shortened URL by going to the history page of the website.
- The history page consists of the following attributes that are accessed from the database.
 - ID (Unique and Primary Key of the database)
 - Short Code (Contains the short code that comes after the base URL)
 - Original URL (Contains the long URL that was shortened)
 - Shortened URL (Contains the short version of the URL)
- This is how the history page looks like.

URL Shortener Home History

All the previously shortened URL's

ID	Short Code	Original URL	Shortened URL
1	Dgv5N5	https://www.linkedin.com/in/santhosh-m-1158591b7/	http://127.0.0.1:5000/Dgv5N5

IMPROVEMENTS:

- A user registration option can be added so that each user can keep track of their shortened URL's and they do see URLs shortened by other users.
- An option to delete the previously shortened URL's either by their ID or by choosing the URL the user needs to delete it.