URL SHORTNER PROJECT

FRONTEND DEVELOPMENT

layout.html
First, I created an html page layout.html for using it as template for every other pages of the web application.

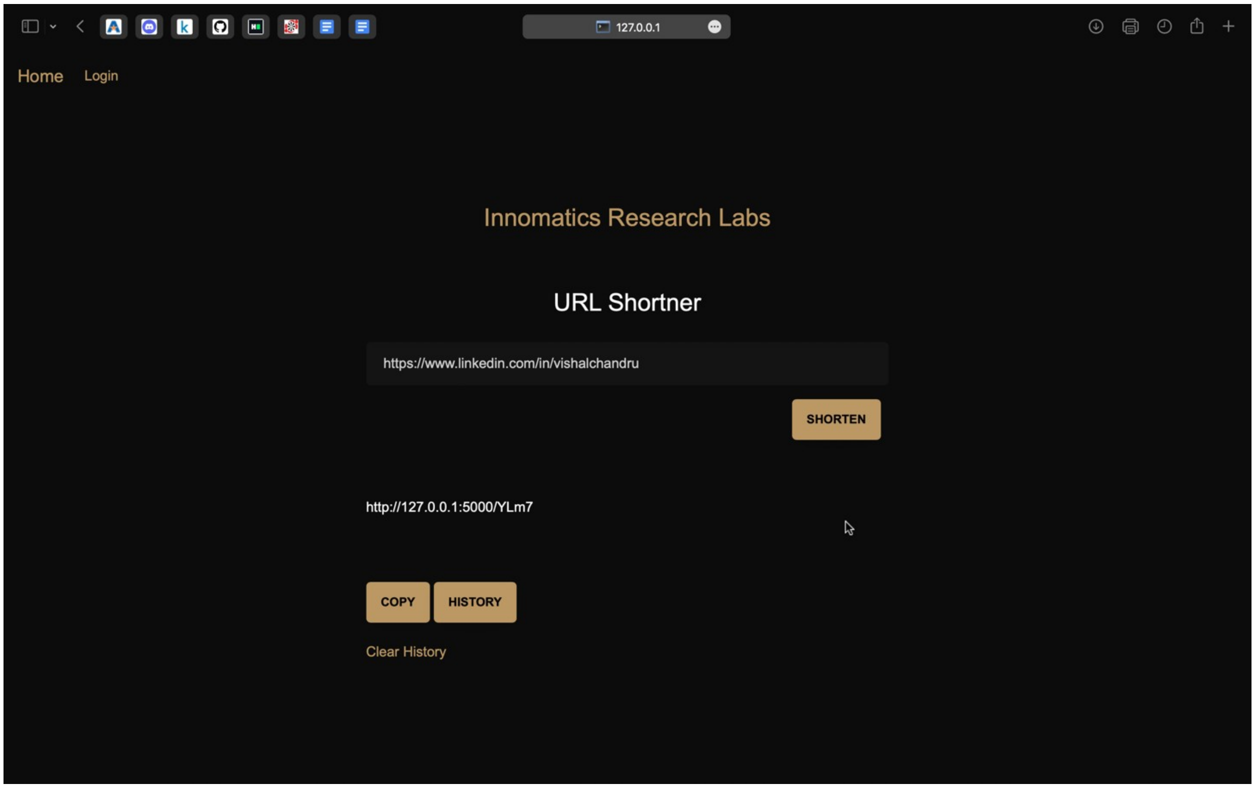
Index.html
A home page index.html with form tags consisting of an input type text and an input type button to send request to the backend. The text input type is used to enter the url. This page extends to layout.html

history.html
This page is used to display all the url that was shortened and its shorten url in table tag.This also extends to layout.html

Invalid.html
This page is to display when a wrong url is typed in the text box of index.html and pushed to backend.

style.css
This file is a style cascade file used to design the web application. Boostrap css was used to style the web application

Index.html



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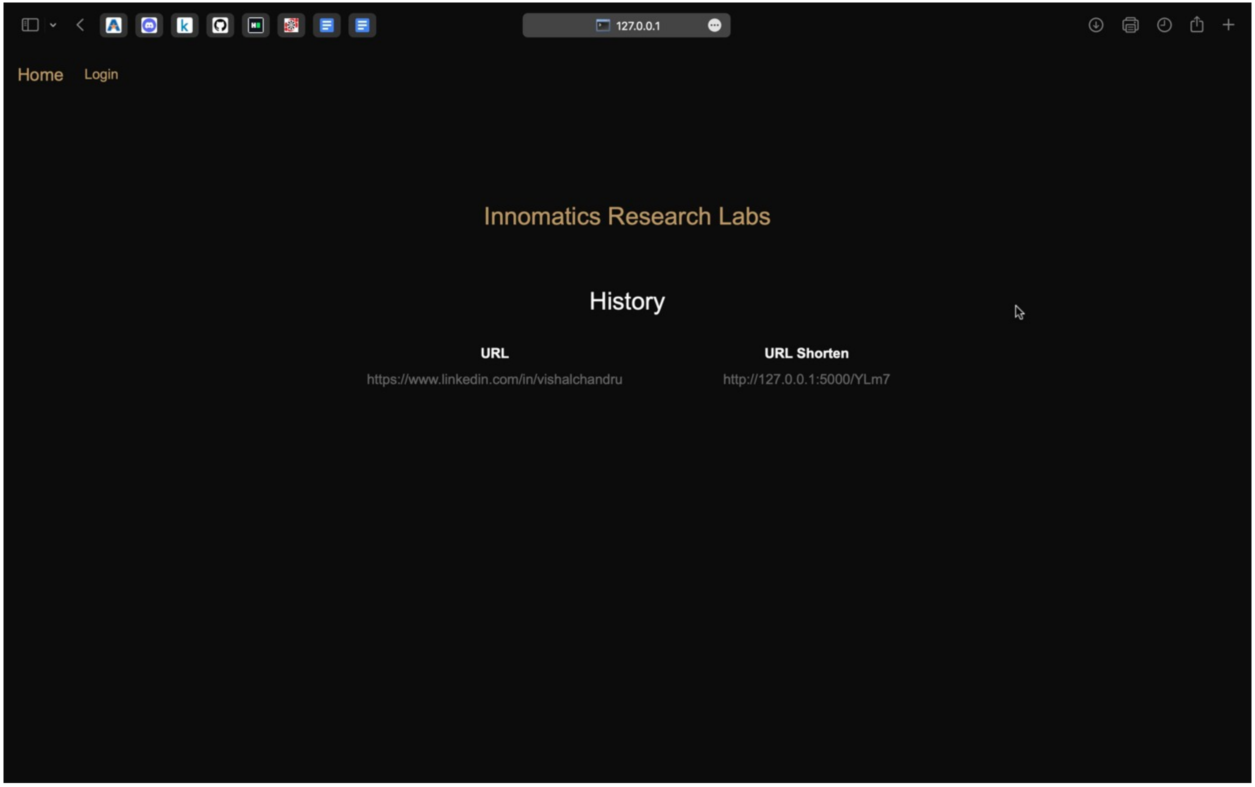
URL Shortner

https://www.linkedin.com/in/vishalchandru

http://127.0.0.1:5000/YLm7

History.html



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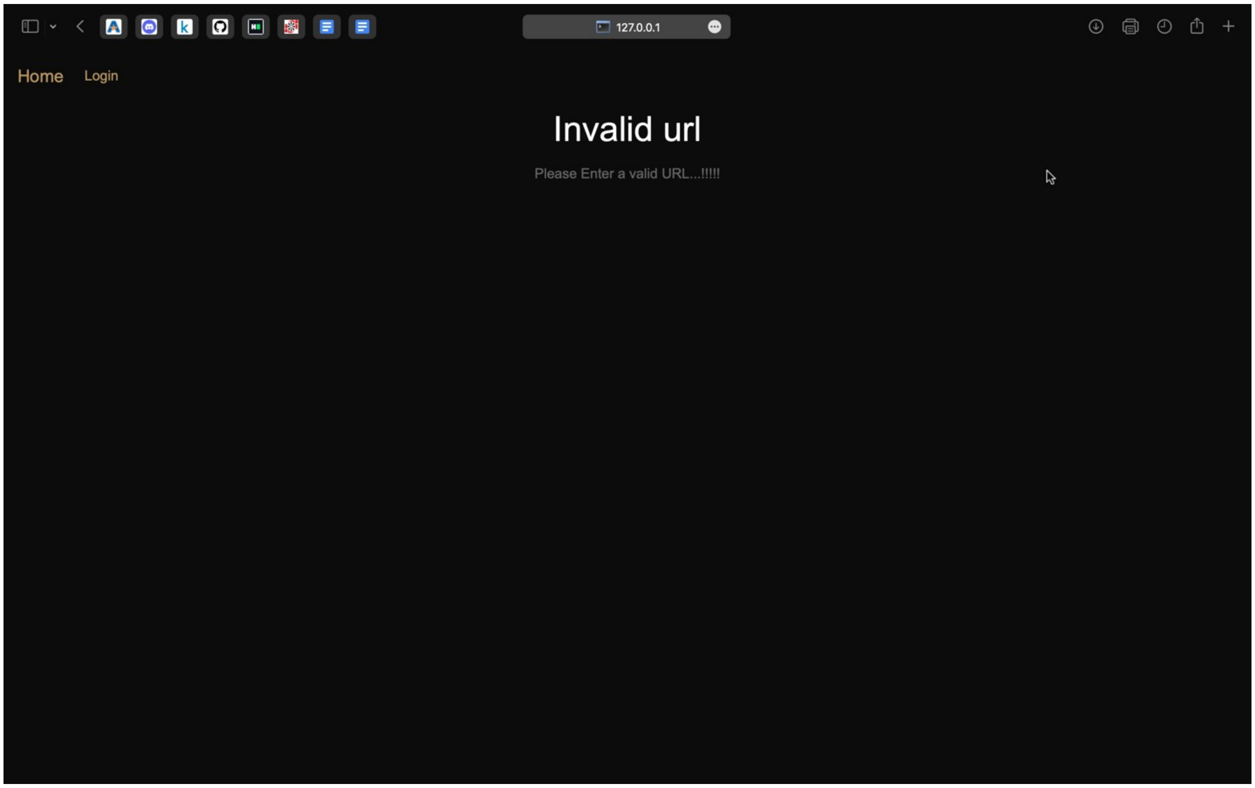
History

URL	URL Shorten
https://www.linkedin.com/in/vishalchandru	http://127.0.0.1:5000/YLm7

Invalid.html



Invalid url

Please Enter a valid URL...!!!!!

BACKEND DEVELOPMENT

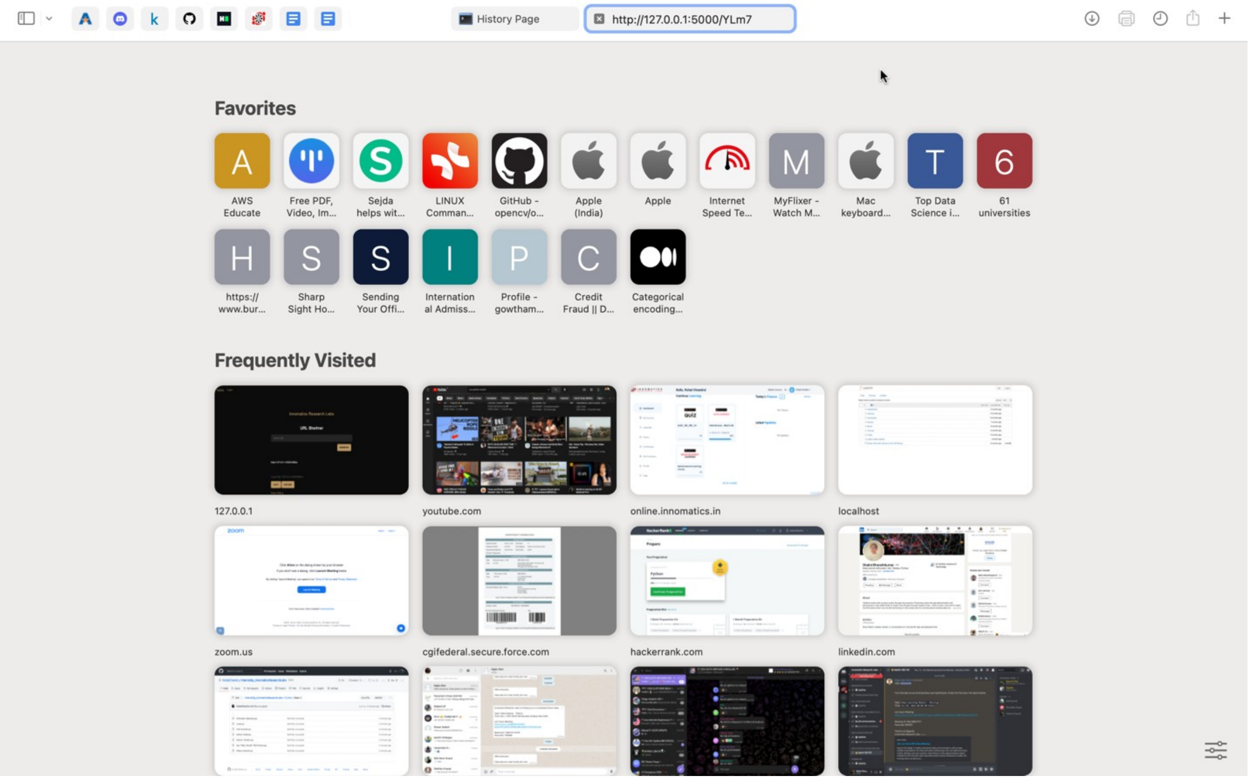
data.sqlite

Database is created using the sqlite and the flask application is connected to the database by SQLAlchemy ORM.
UrlShort table is created under data.sqlite.

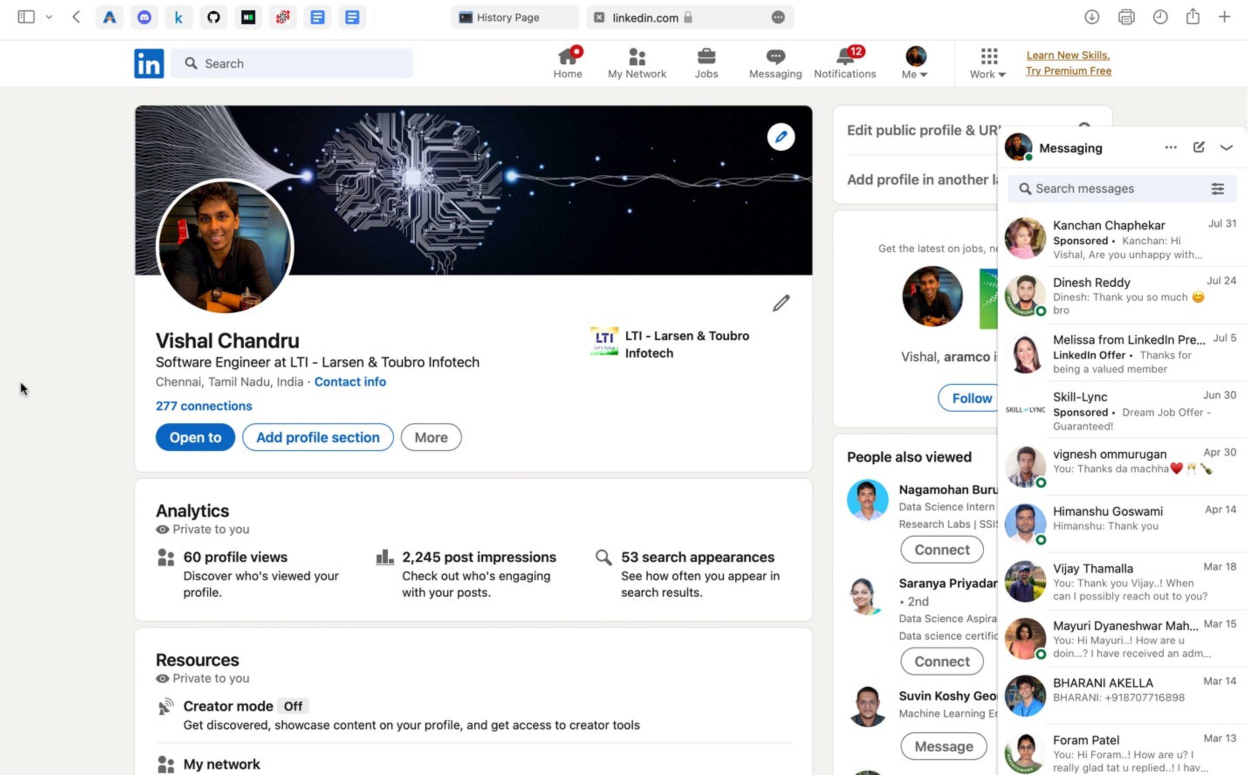
app.py

This is the file where all the request and response is handled. The respective functions of the route is called when the buttons are click in the respective pages.

Shorten URL



Request calls the original URL



Vishal Chandru

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277 connections

LTI - Larsen & Toubro Infotech

Analytics

Private to you

60 profile views
Discover who's viewed your profile.

2,245 post impressions
Check out who's engaging with your posts.

53 search appearances
See how often you appear in search results.

Resources

Private to you

Creator mode Off
Get discovered, showcase content on your profile, and get access to creator tools

My network

People also viewed

Nagamohan Buru
Data Science Intern
Research Labs | SSIS

Saranya Priyadar
• 2nd
Data Science Aspira
Data science certific

Suvin Koshy Geo
Machine Learning En

Messaging

Kanchan Chaphekar — Jul 31
Sponsored • Kanchan: Hi Vishal, Are you unhappy with...

Dinesh Reddy — Jul 24
Dinesh: Thank you so much 😊 bro

Melissa from LinkedIn Pre... — Jul 5
LinkedIn Offer • Thanks for being a valued member

Skill-Lync — Jun 30
Sponsored • Dream Job Offer - Guaranteed!

vignesh ommurugan — Apr 30
You: Thanks da machha❤️🥂🍾

Himanshu Goswami — Apr 14
Himanshu: Thank you

Vijay Thamalla — Mar 18
You: Thank you Vijay..! When can I possibly reach out to you?

Mayuri Dyaneshwar Mah... — Mar 15
You: Hi Mayuri..! How are u doin...? I have received an adm...

BHARANI AKELLA — Mar 14
BHARANI: +918707716898

Foram Patel — Mar 13
You: Hi Foram..! How are u? I really glad tat u replied..! I hav...

WORKFLOW:

First the Front end of the application is built using the html and css codes.

Then the backend is built and connected with the web application.

The operations are explained in app.py and the application behaves accordingly.

Added Clear History which deletes all the history in the web application.

LIBRARY USED:

# from hashids import Hashid
I used hashids library to encode the url and shorten it. And saved it along with the original url in the database.

# import validators
To validate the url is authentic I used validators library and validator.url to verify if the entered string is in url format.

#import secrets
I used secrets to generate a random string of hex(16) of desired length. This is passed to app.config['SECRETS_KEY'] which acts as salt to hashid object. The salt is an additional value added to hashid to increase the randomness of the generated id.

#import subprocess
This library is used to generate a copy paste functionality through python code.

FUTURE SCOPE:

Given more time, I can work on the Login functionality and improve the security of the code.