**URL SHORTENER**

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**APPLICATION DESIGN:**

* **Designing Application Server:**

Language Used – python (Flask)

Required Modules – flask, flask\_sqlalchemy,flask\_migrate,pyshorteners

* **Designing Database:**

Language Used – SQLite

* **Designing Templates**
* Language Used – HTML, Javascript

**FRONT-END INFORMATION**

The front-end consists of 2 web pages:

* Home Page - A page will be shown where the user can enter the URL he/she wants to shorten. After the ‘shorten’ button is clicked, the shortened URL is displayed in the text-field which the user can copy using the copy button.
* Display Page - Containing all the Original URLs along with the Shortened URLs.

**PROJECT WORKFLOW**

* Users can enter the URL they want to shorten. After entering a URL, click on the ‘Shorten’ URL button to display the shortened URL in the following text-field which can be copied by clicking on the copy button.
* After the ‘Shorten’ button is clicked, the URL that is entered is saved in our database with the shortened URL. It is saved in the database so that the user can look into the previous URLs he entered in our web-app with their shortened URL.
* Try to verify the URL entered by the user is correct or not. (Do some googling to find out how to make it possible)

Follow the below mentioned steps before running the code available in URL\_Shortener :

**Step 1** - In command prompt install all the requirements

**Step 2** - Go to the directory where app.py is present and run below mentioned commands in cmd (we are running these command again because there is the change in overall database because we have added the User table):

flask db migrate -m “Message”

flask db upgrade

**Step 3** - Run the code and observe the code changes in the URL\_Shortener App