Software design document November 14, 2019

Web Shorter URL

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Purpose:

URL shortening web service, which provides short aliases for redirection of long URLs.

Service:

The homepage includes a form which is used to submit a long URL for shortening. For each URL entered, the server adds a new alias in database and returns a short URL and can go from short link to original link.

Short URL aliases are seen as useful because they are easier to be written down, remembered or distributed. They also fit in text boxes with a limited number of characters allowed.

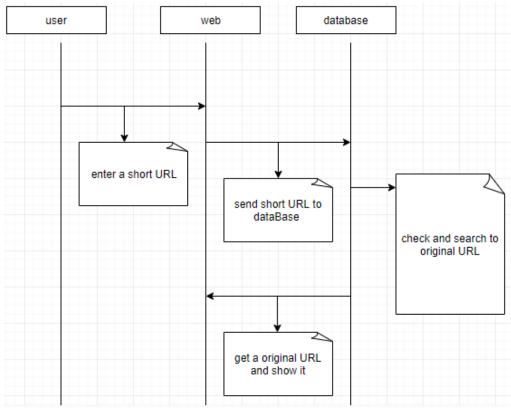
The method of allocating shorter web addresses has inspired an action. Random letters and numbers can be placed after the first forward slash in an attempt to hit interesting sites without knowing what they will be.

The backend should be implemented using:

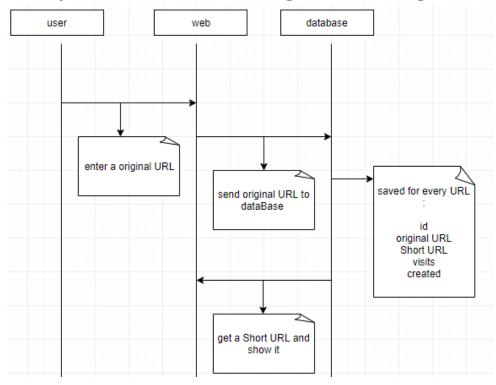
- **Python** the programming language used python 3.
- Flask Web Framework https://flask.palletsprojects.com/en/1.1.x/.
- **SQLite** Database; note that SQLite is natively supported in python.
- Vue.is. the front-end.

Attaches:

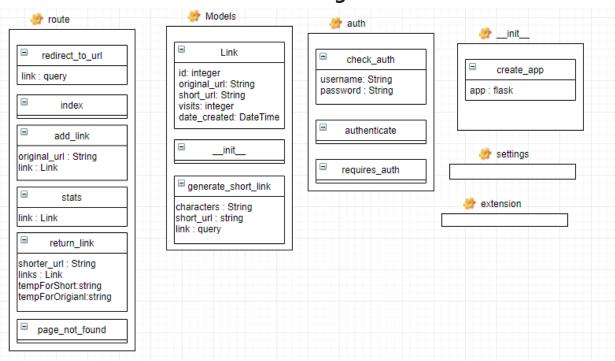
Sequence original URL to short URL diagram



Sequence short URL to original URL diagram

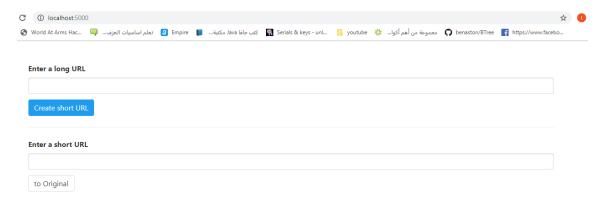


classes diagram

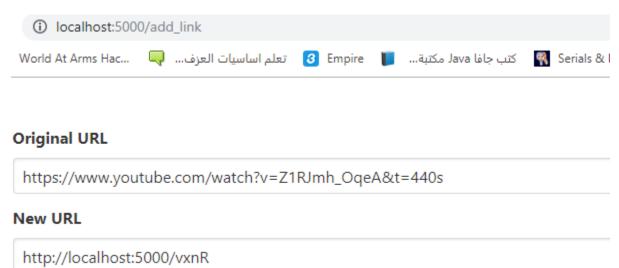


Templates diagram

Idex.html



Add_link.html



Return_link.html



Stats.html

