# Flask Project: URL Shortener

## Objective: To build a flask-based web application which is capable of shortening a long url for a user and save it in the database for later use.

## Algorithm: I have used base62 algorithm to store the mapping of long URL. The base62 encoding scheme uses 62 characters. The characters consist of the capital letters A-Z, the lower case letters a-z and the numbers 0–9. To avoid duplicate mappings, I randomly generate 7 numbers using for loop and get the corresponding index after applying mod (random\_number%62) operation.

## Database: I have created a database with two tables: Users and Url

|  |
| --- |
| Users |
| Id (primary key) |
| Name (unique) |
| Email |
| Password |

## 

|  |
| --- |
| Url |
| Short\_url (primary key) |
| Long\_url |
| User\_id (foreign key) |

## 

## Tools:

## HTML

## Python

## Flask

## SQL Alchemy

## Bootstrap