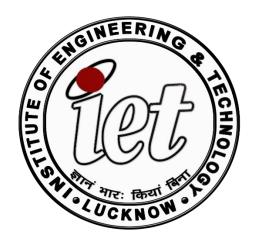
### Python Django Web Application

## **URL Shortener**



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### INTRODUCTION

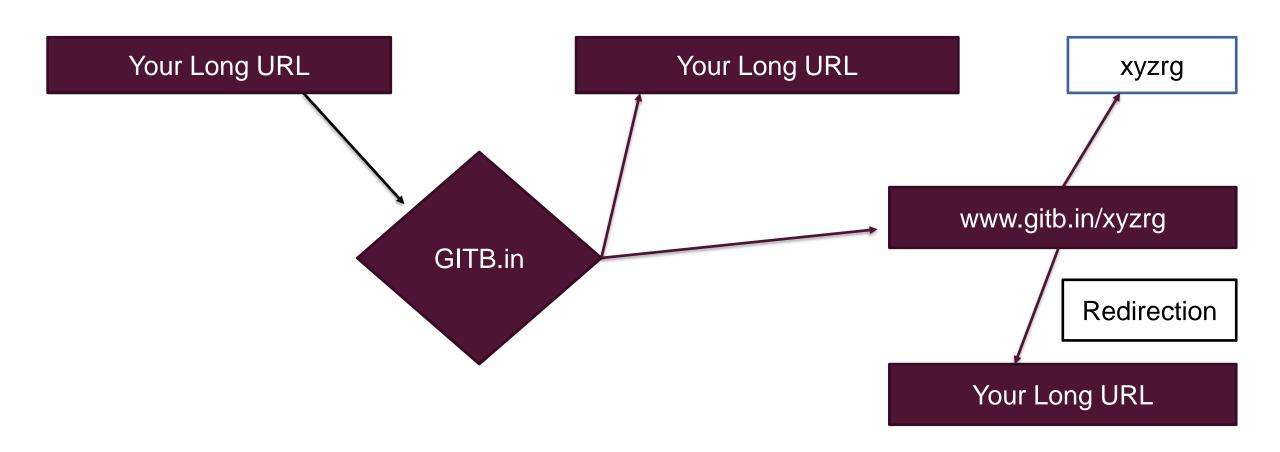
This report discussion the result of the work done in development of "URL Shortener Application" on Python-Django Platform. It is a responsive web application to provide you a short and easy to share Shortened URL for your long URL.

### PROBLEM STATEMENT

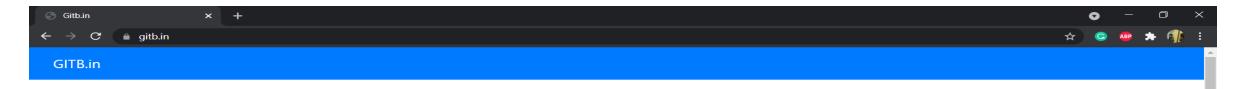
URL shortener can be found in a large variety of applications today like sharing YouTube links and any tweet from their apps they use their own shortener to short the link and provide you a short and easy URL to share. There is multiple URL shortener application giving premium services to use their shortened URL i.e. bit.ly etc.

So we decided to come up with the idea a shortener application using Python-Django which makes it faster and easy to share.

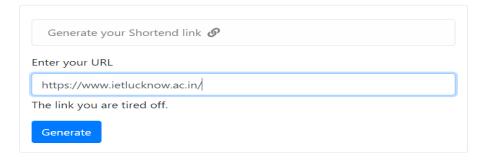
### **FLOWCHART**



### WEBSITE



#### **URL Shortener**



#### Simple and fast shortened URL!

GitBin allows to reduce long links from every sites on the Internet, just paste the long URL and click the Generate button. On the next screen, Click on Copy URL button to copy the shortened URL and share it on websites, chat and e-mail. After shortening the URL, It will redirect you to the original URL within a second.



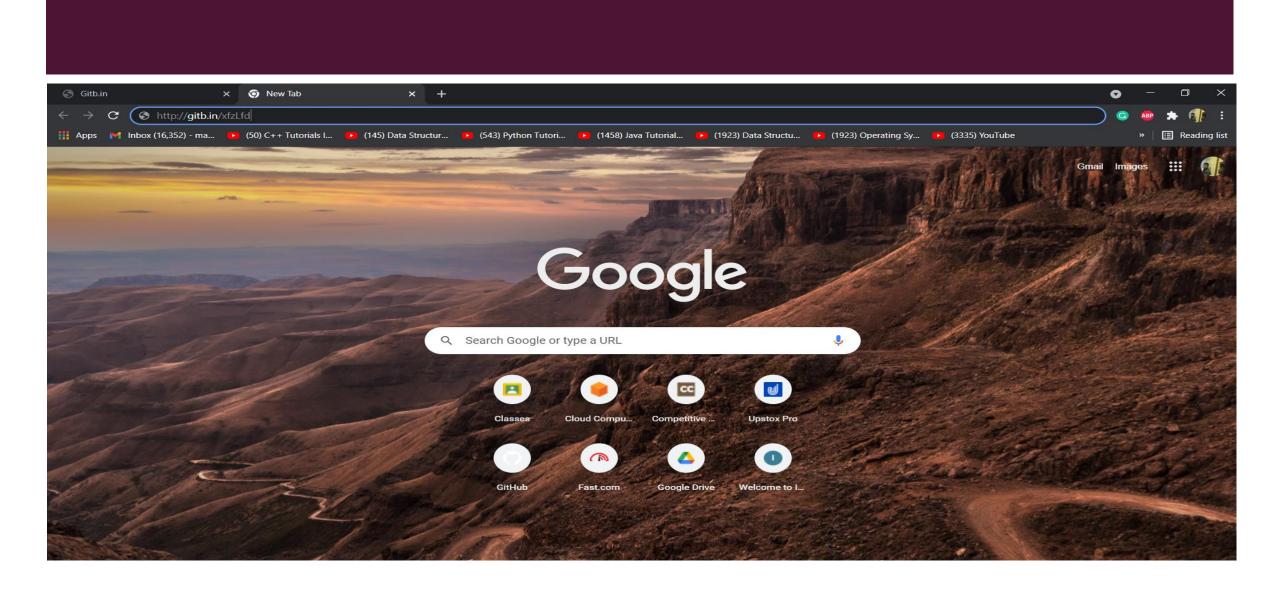
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Who we are?



### RESULT OUTPUT



### **DATABASE TABLE:**

id	original_url	shortend_url	keyword
40	https://play.google.com/store/app	http://gitb.in/Kywkt5	Kywkt5
41	https://youtu.be/QHg7x5jPqS0	http://gitb.in/nQqCO6	nQqCO6
42	https://www.india.com/uttar-prade	http://gitb.in/Oxw4jK	Oxw4jK
43	https://taurenidushq.blogspot.co	http://gitb.in/uLduWb	uLduWb
44	https://www.sarkariresult.com/ups	http://gitb.in/IBGmSG	IBGmSG
45	https://linkintime.co.in/MIPO/lpoal	http://gitb.in/tc2WFC	tc2WFC
46	https://www.sarkariresult.com/202	http://gitb.in/lq7Bmn	lq7Bmn
47	https://www.ietlucknow.ac.in/	http://gitb.in/xfzLfd	xfzLfd

### HARDWARE REQUIREMENT

- Processor: intel Pentium(R) CPU 2020M 2.40Ghz
- Memory : 2.0GB or more
- System Type : 64bit operating system

(for localhost)

### SOFTWARE REQUIREMENT

- Python 3.6
- Browser for ex: Chrome, Mozilla etc.
- Any Installer i.e. pip, git etc.

### FRONTEND TECHNOLOGY

- User Interface
- The tool is very user friendly and intuitive and uses a GUI interface implemented using HTML-CSS-BOOTSTRAP for the Front-End and Python to communicate with the user.
- Various features are self explanatory.
- Forms are easy to fill in and components can be added, removed and updated very easily through a single dialog box.
- The application includes **Copy Button** to make it easy to copy the shortened Link with a click.
- If you enter any un-valid URL so there will a **error with brief** description of the particular input field.

### **BACKEND TECHNOLOGY**

- Django
- OS-sys
- URL Validator
- Datetime
- Socket
- Random
- String

### FUTURE WORK & CHALLENGES

- We can provide the Analytics of individual link for the user.
- Many Applications are using share options on their platform to other social media platforms for the reach we can comply with them to short their long and messy URLs.
- We can create extension of our application for the browser so that easily we can short the links using.
- We can add **premium accounts** to customize their links as they want.
- As the domain names are being sold frequently in future there will be more longer URLs so we need a shortener to use them in sharing or mentioning anywhere.

### CONCLUSION

At last the project has great future in the real time as is saves lot of space in and reduce space complexity in the application like twitter etc. Purpose of creating our own link shorting project of ourselves which is free. The idea came from the link shorting Web applications like bit.ly and tinyurl.com which are providing shorting services with **Premium Prices**. So making our own website for the betterment of ourselves we came up with this idea using the currently most used language Python. So it's free website for link shorting from our side and anyone can use by clicking on <a href="https://gitb.in/">https://gitb.in/</a> as it is up and running.

# Thank You



Z ANY QUERIES?