

WHAT IS A URLSHORTENER?

A URL Shortener is a service that transforms long web addresses into short, user-friendly links.

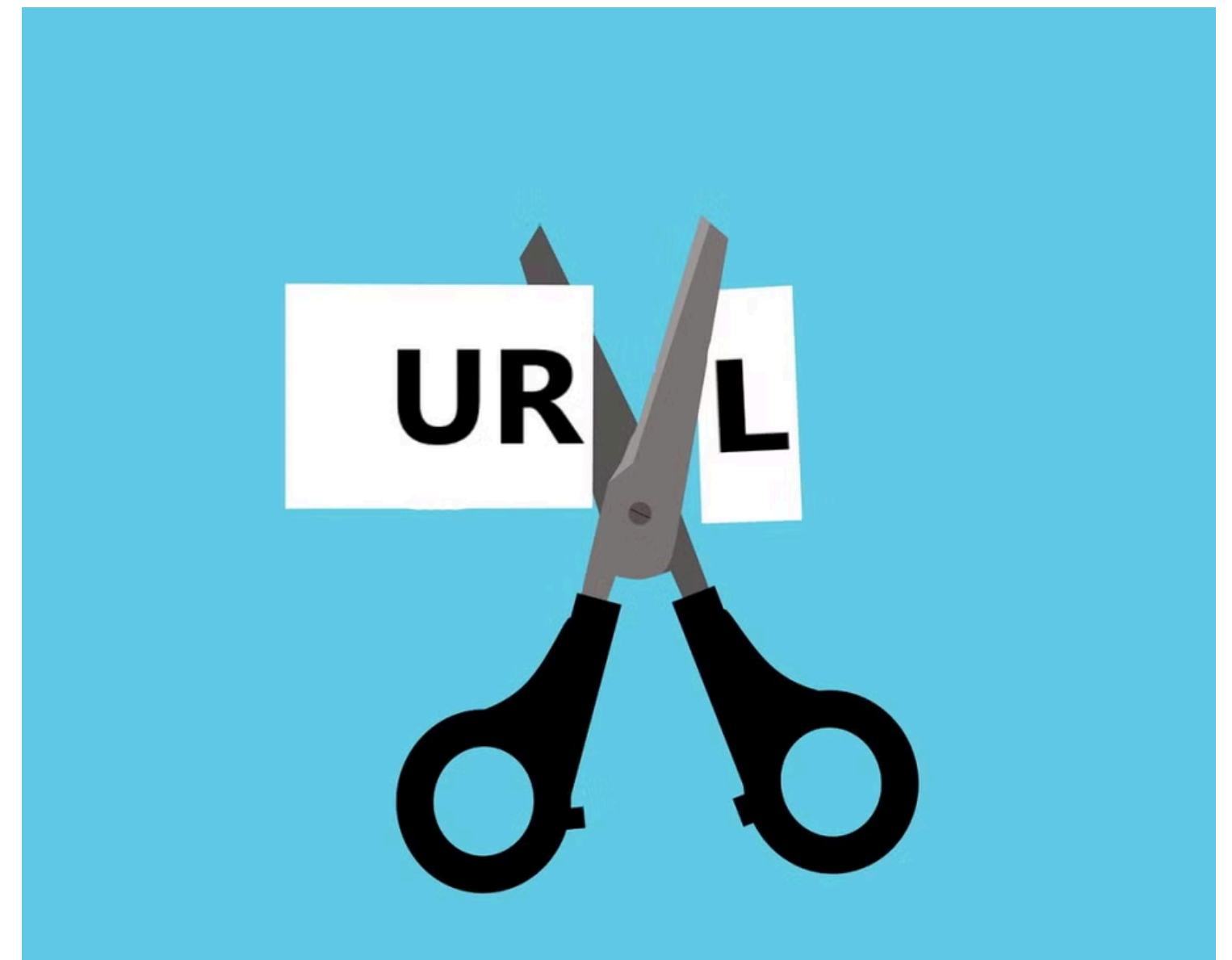
For example:

`https://www.youtube.com/watch?`

`v=H6P6Cdyt8e0` → `http://127.0.0.1:8000/5yEq8`

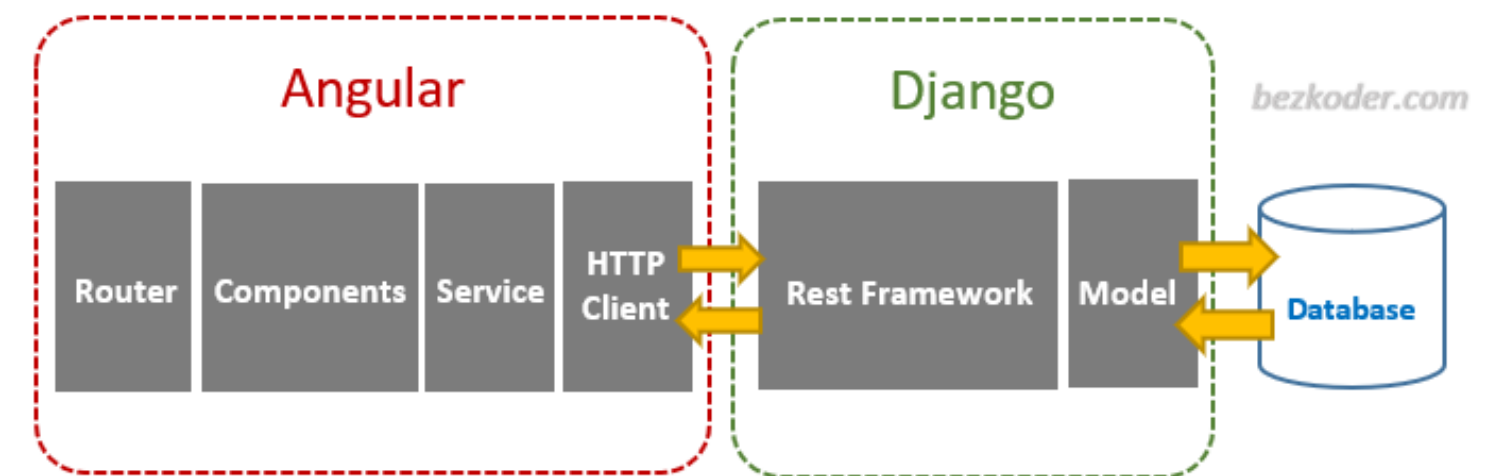
Shortened links are often used in:

- Social media
- Messaging apps
- Email campaigns
- QR codes



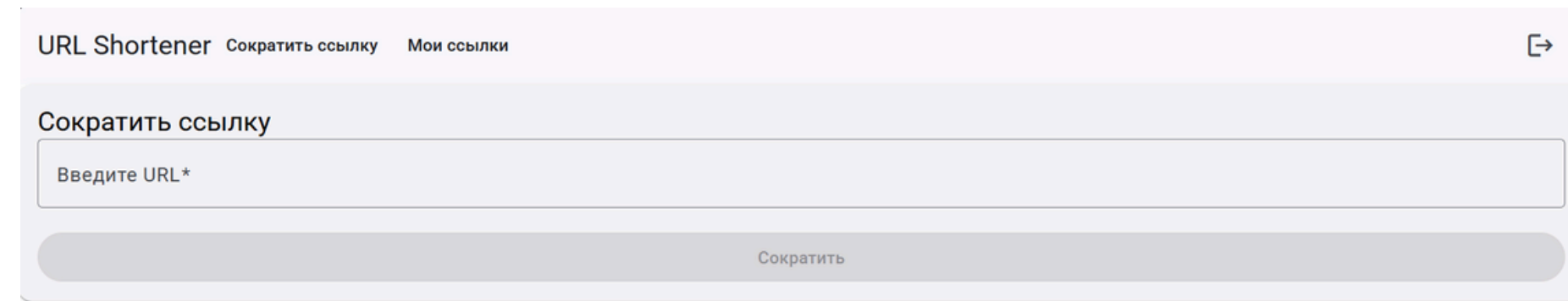
PROJECT ARCHITECTURE

- Frontend: Angular. Handles the user interface, forms, and communication with the API.
- Backend: Django + Django REST Framework. Processes requests, stores data, generates short links, and handles redirects.
- Database: Stores users, links, click analytics and categories
- JWT Authentication: Secures private routes and user sessions.



KEY FEATURES AND HOW IT WORKS

- User Registration & Login. Secured using JWT tokens.
- Short Link Creation. Users submit a long URL → a unique short code is generated.
- Redirection via Short URL. Visiting the short URL redirects to the original address.
- Analytics Tracking. Each click stores IP address, browser (User-Agent), and timestamp for stats.



The screenshot shows a web interface for a URL shortener. At the top, there is a navigation bar with the text "URL Shortener" and two links: "Сократить ссылку" (Shorten link) and "Мои ссылки" (My links). On the right side of the navigation bar is a share icon. Below the navigation bar, the main heading "Сократить ссылку" is displayed. Underneath this heading is a text input field with the placeholder text "Введите URL *". Below the input field is a large, light gray button labeled "Сократить" (Shorten).



Мои ссылки

Фильтр по категории

Оригинальная ссылка	Сокращенная ссылка	Категория	Клики	Дата создания	Действия
https://www.youtube.com/watch?v=swdPGwdJjUY	http://127.0.0.1:8000/p5LeI0	Video	0	Apr 24, 2025, 11:56:05 AM	<div><div></div><div></div><div></div></div>

**THANKS FOR
ATTENTION!**