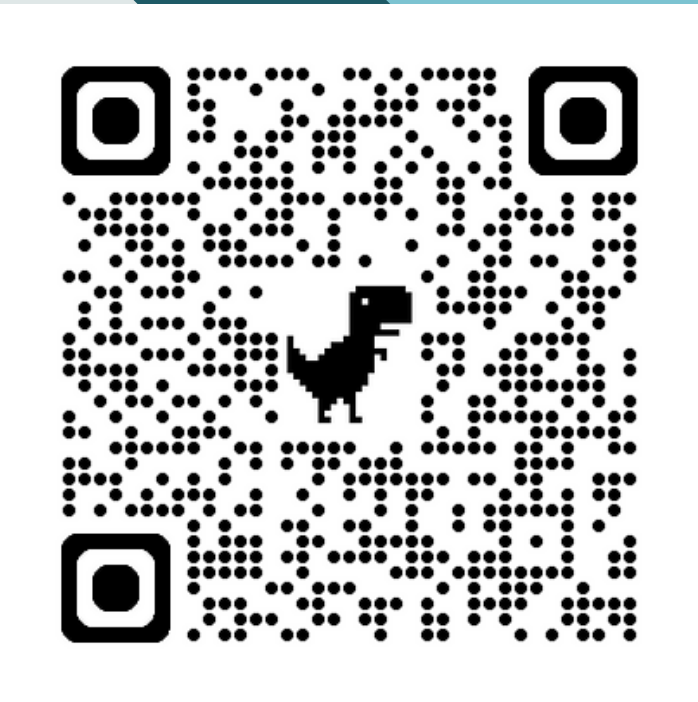




txtly



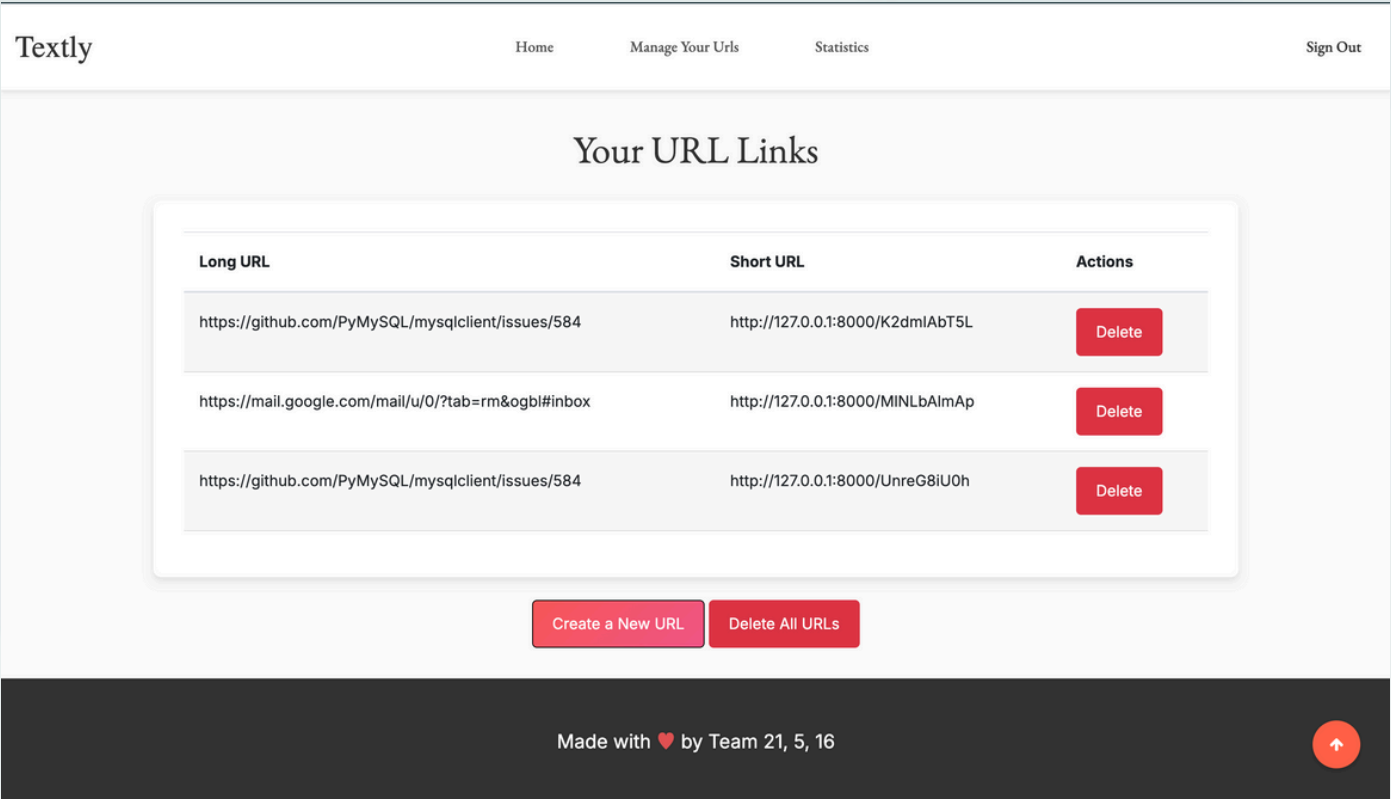
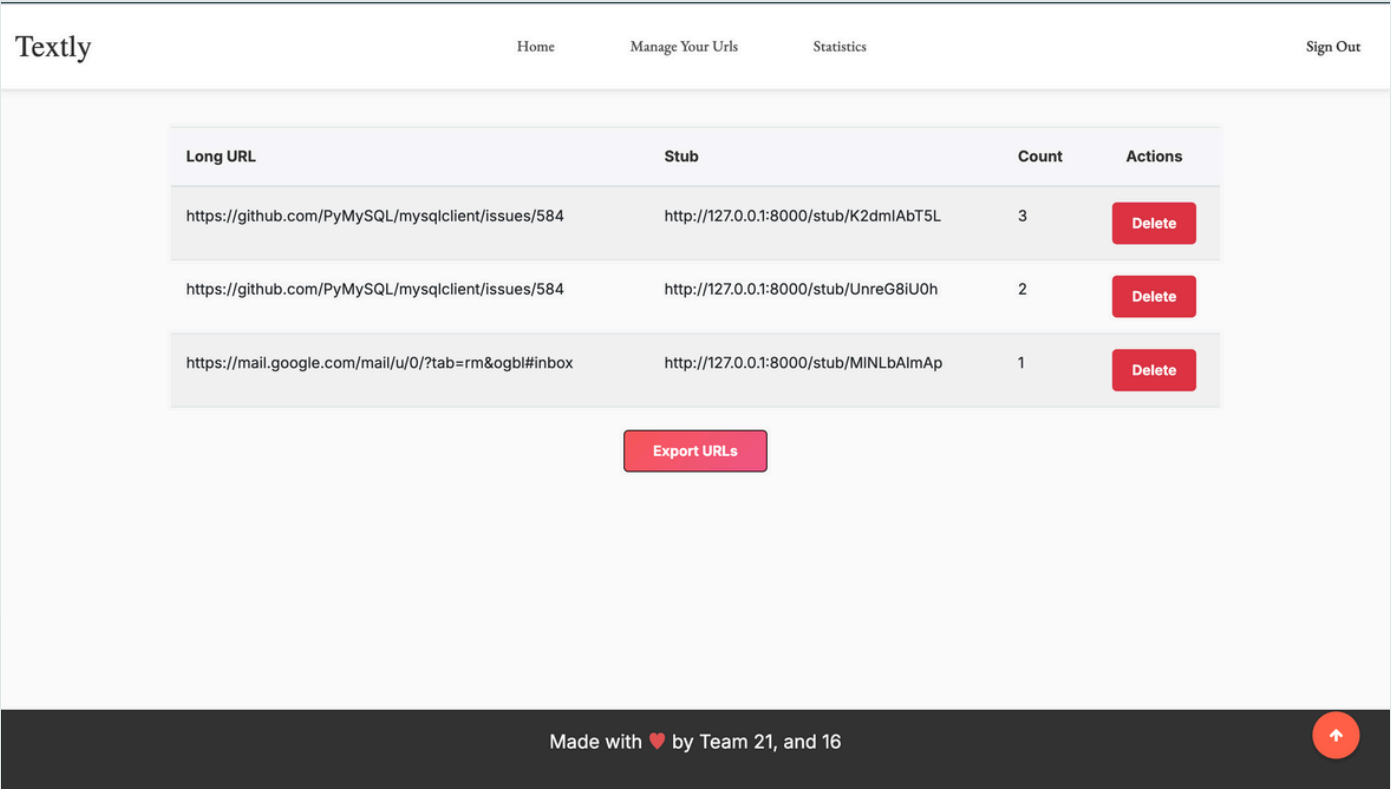
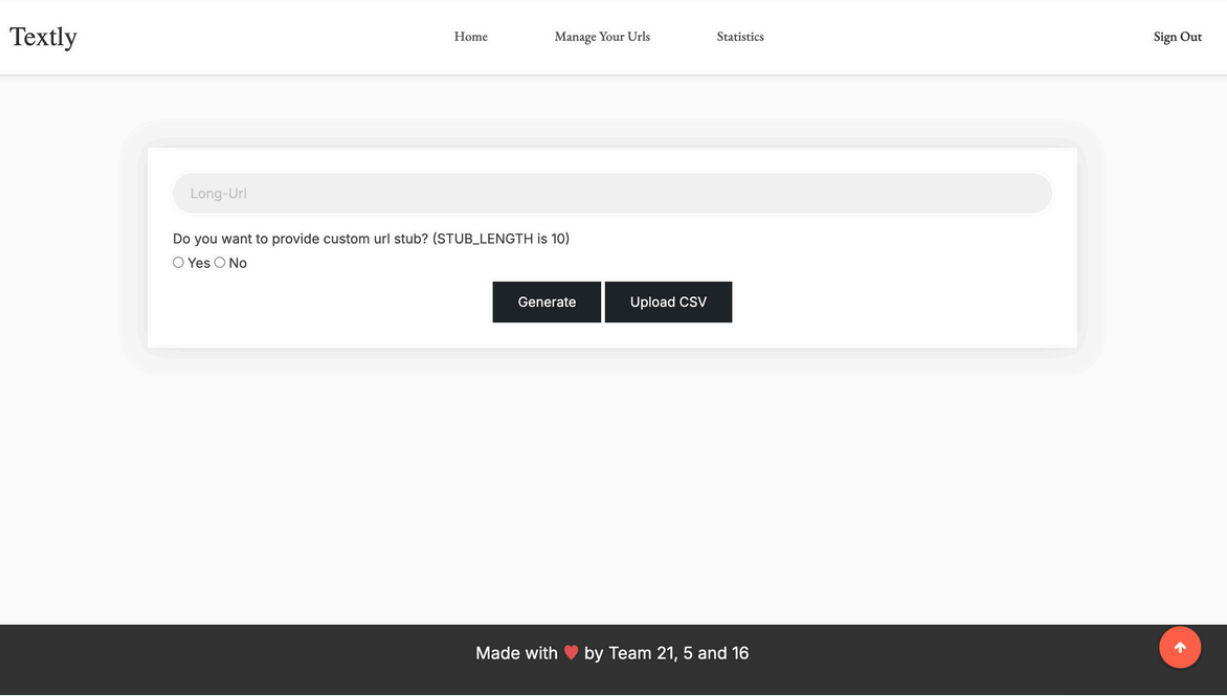
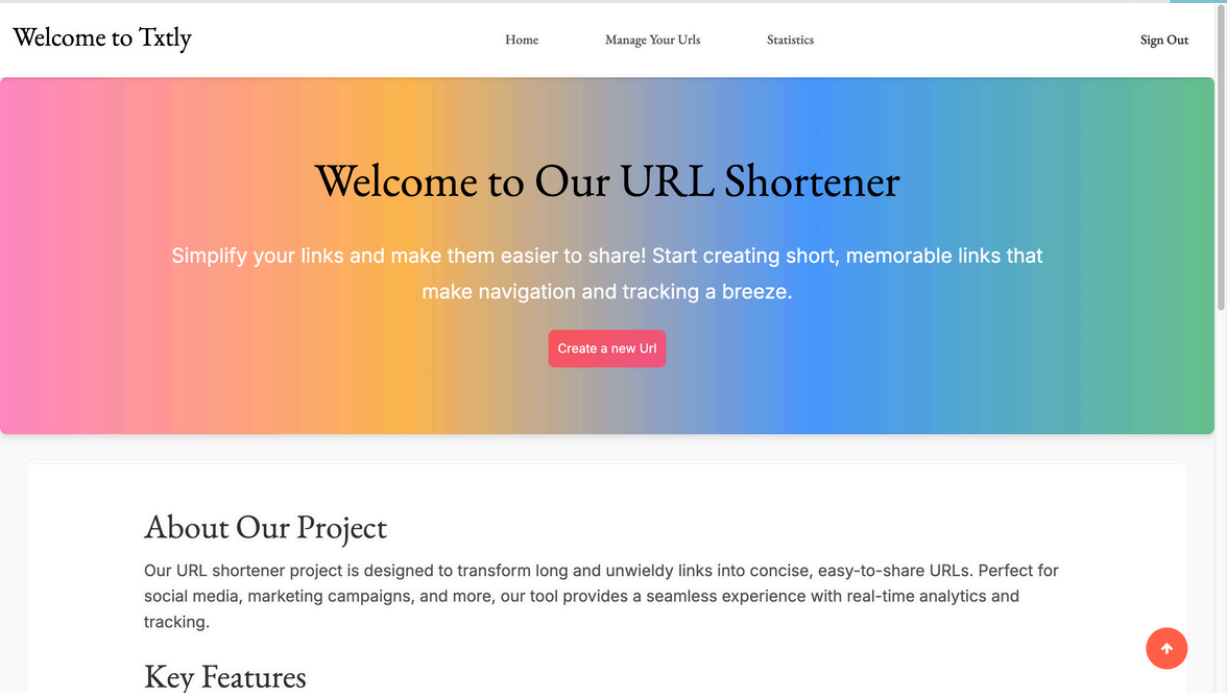
Group 21 -  
Prerak Bhandari, Akshat Shah, Dhairya Shah

Description

- Efficient URL Shortening: Txtly simplifies long URLs into short, shareable links, making it easier for users to manage and share links across platforms.
- Secure and Accessible: Accounts and URLs are stored securely, and the newly redesigned login and homepage make accessing key features straightforward.
- Comprehensive Overview: The homepage now provides an overview of all features, making it easier for new users to understand Txtly’s capabilities.
- Flexible Link Management: Users can edit long URLs without altering the short URL, ideal for ongoing campaigns or updated resources.

Key Features

- Custom Short Links: Users can create unique short links that reflect personal or brand identity, with support for multiple custom stubs.
- Bulk URL Management: Added support for bulk URL shortening via CSV upload, allowing users to manage large volumes of links efficiently.
- Analytics and CSV Export: Tracks click data and location metrics, with the option to export URL stats in CSV format for analysis.
- User-Friendly Interface: Redesigned pages like the landing page that provides an overview of all features, making it easy for users to understand Txtly's capabilities at a glance.
- Quick Management Tools: Added a feature to delete all URLs at once, helping users manage their links more easily.



Methodology

- Frontend Overhaul: The UI was redesigned with HTML, CSS, and JavaScript to create a clean and engaging user experience. Improvements include a fixed navbar for seamless navigation and a more intuitive layout that enhances usability on both desktop and mobile devices.
- Backend Security: Developed with Python and Django to provide a robust framework for secure URL management. Additional error handling mechanisms help users troubleshoot issues effectively, ensuring a smooth experience even when problems arise.
- Rigorous Testing: Comprehensive test cases were crafted by Dhairya, Akshat, and Prerak, covering all major functionalities to guarantee reliable performance and maintain high code quality across the platform.

Future Scope

- Phishing Protection: Implement algorithms to detect and block phishing or malicious websites, ensuring users only shorten and share safe URLs on the platform.
- Device and Browser Tracking: Enhance analytics by tracking users' devices and browsers, providing deeper insights into how and where links are accessed.
- Load Balancer for Optimized Tracking: By utilizing a load balancer, Txtly will efficiently handle higher traffic volumes and provide detailed location data on user clicks, enabling more precise and scalable link tracking.
- Advanced Location Insights: Improve location-based tracking within the analytics dashboard to help users better understand geographic engagement trends for their links.

