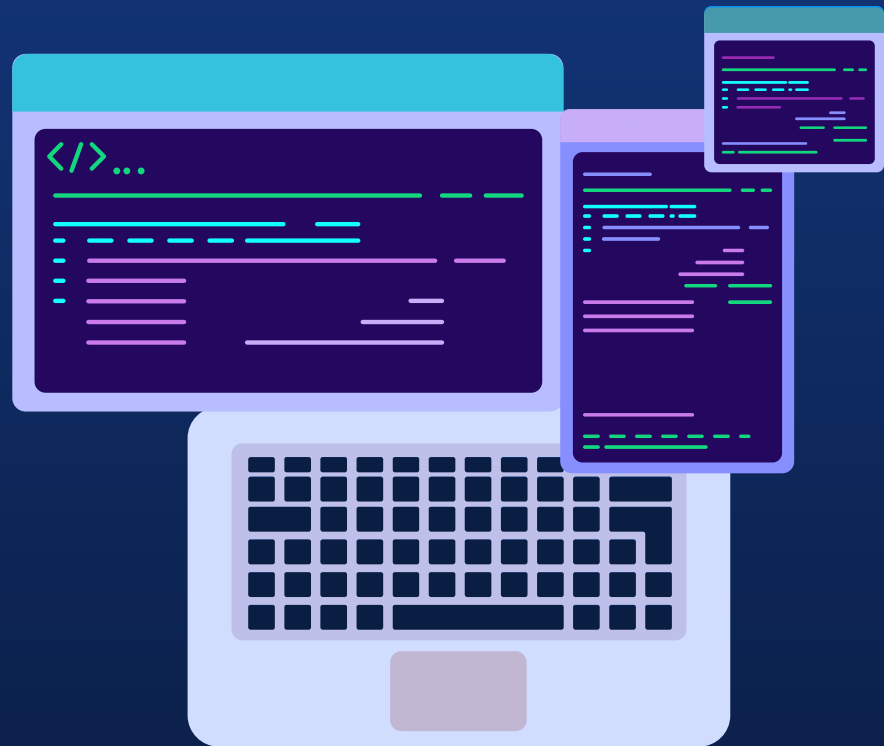


SocialDex

Start2Impact
Django&Redis project





Description

Online bulletin board that writes posts on the Ropsten network blockchain. The web-app provides a user interface and API endpoints with the following features:


User interface

1. User registration and authentication.
2. Write a new post and view all posts written by users.
3. User profile.
4. User list and statistics (Administrators only).

API endpoints

1. User registration and authentication via token.
2. Create a new post.
3. Retrieve all posts written by users.
4. Retrieve the number of posts that contain a certain word.
5. Retrieve all posts published in the last hour.

The web-app also integrates a filter for posts containing the word 'hack', performs a daily report logging the use of endpoints by users and keeps track of the last IP with which users logged in to notify if it is different from the previous one.



Frameworks and technologies



Django

Core of the application
Back-end



Django REST Framework

Services for external
applications



Bootstrap

User interface
Front-end



SQLite

Web-app structure and
main storage



Redis

Temporary storage for logs



Celery

Scheduled tasks

USER INTERFACE OVERVIEW





Sign up on SocialDex!

Max 25 characters. Letters, digits and /+@/_ only.

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Enter the same password as before, for verification.

[Create account](#)

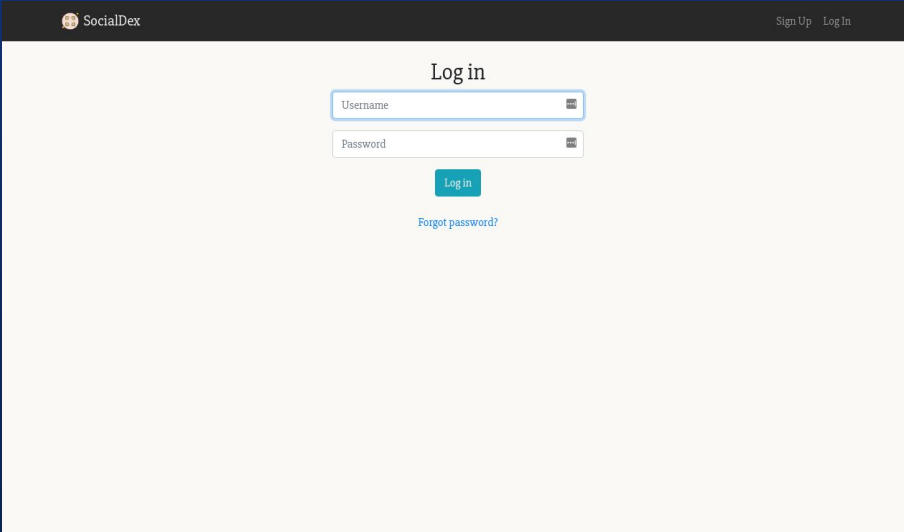
Sign up

The registration page is accessible from the 'Sign Up' button in the navigation bar. Then a new user can register on the platform by entering their data.



Log in

The login page is accessible from the 'Log in' button in the navigation bar or directly from the homepage if the user has not yet logged in.



The screenshot shows the login interface for SocialDex. At the top, a dark navigation bar contains the SocialDex logo on the left and 'Sign Up' and 'Log In' links on the right. The main content area is white and features the heading 'Log in'. Below this, there are two input fields: 'Username' and 'Password', each with a small eye icon for toggling visibility. A teal 'Log in' button is positioned below the password field. At the bottom of the form, there is a blue link that says 'Forgot password?'. A vertical bar with colored segments (purple, blue, teal) is visible on the left side of the screenshot.

SocialDex

Sign Up Log In

Log in

Username

Password

Log in

[Forgot password?](#)



Write your post on the blockchain...

Send

30 Jul 2021 - 15:07:39

@Nicolò

This is my first message written on the blockchain :D

Tx ID

Hash

30 Jul 2021 - 15:07:04

@moltack

Hello everybody!

Tx ID

Hash

Homepage

After the user has logged in, he is redirected to the homepage.

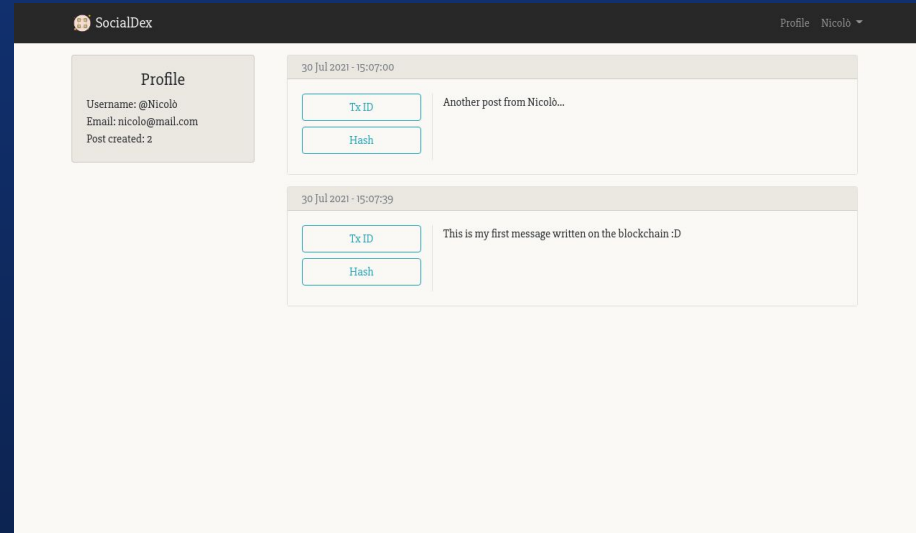
From this page the user can view all the posts written by the users of the platform and write new ones.

Then to view the transaction details and verify the integrity of the message, simply press the 'Tx ID' and 'Hash' buttons to retrieve the data.



User profile

The profile page shows a summary of user's information and a list with their posts.





@moltack

Post created: 1

@Nicolò

Post created: 2

@Mario

Post created: 0

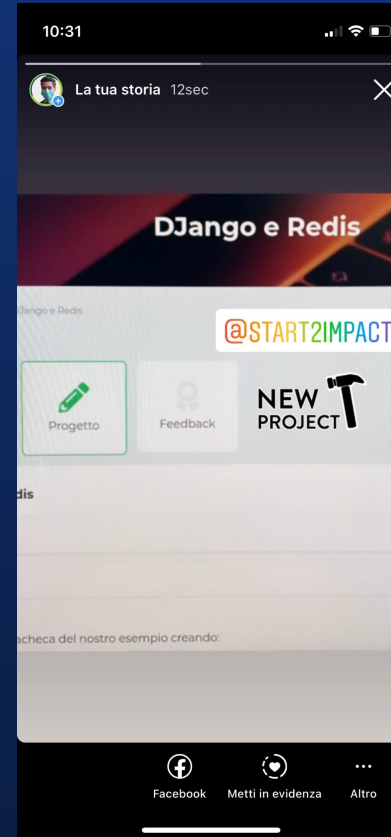
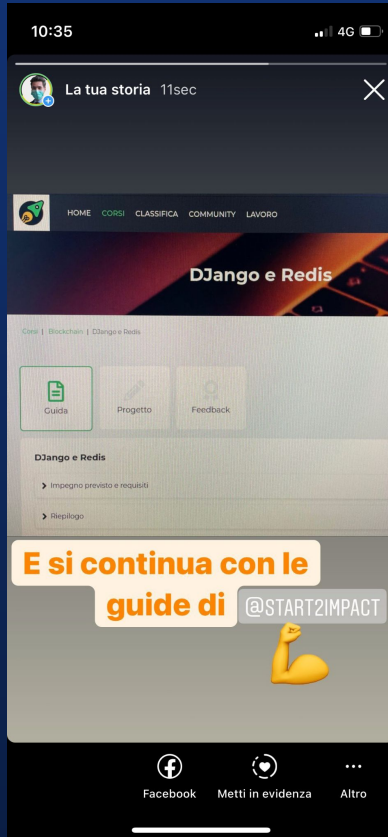
User list

If the user is an administrator, the 'Users' button is shown in the navigation bar in order to access the user list page.

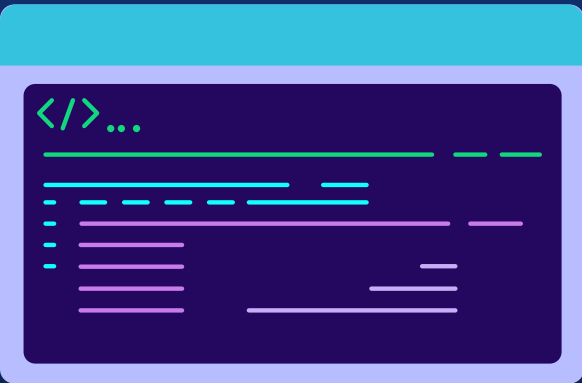
This page shows a list of all users and the number of posts written by each user.



Bonus Mentoring



THANKS



Source code on [GitHub](#)
Live demo on [Amazon AWS](#)
My profile on [Start2Impact](#)



CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, infographics & images by **Freepik**