

Women's Empowerment:

WE stand together for
empowering women at home
and abroad



What does WE solve?

WE is a marketplace that allows people to contribute directly to the NEEMA project while also giving users the freedom to operate on the blockchain and receive some good looking items at the same time



Solutions

Supports Women and Girls

By directly funding the NEEMA project buyers can be sure that their dollars will directly be making an impact

Peer to Peer Network

It's a peer-to-peer (P2P) network, hence sellers can directly transact with buyers without intermediaries

Smart Contracts

T&Cs are coded in immutable smart contracts; besides they are transparent

On the Blockchain

By being hosted on the blockchain our market place eliminates a lot of problems that come with traditional marketplaces



Benefits of being on the blockchain

- The payment process uses cryptocurrencies thus eliminating third-party payment providers
- Cryptographic hash functions, data encryption, and blockchain consensus algorithm make the system secure.
- It has a decentralized distributed database, and all nodes are involved in maintaining the database. Each has a full record of the database. There's no central server for hackers to destroy

Tech Stack:

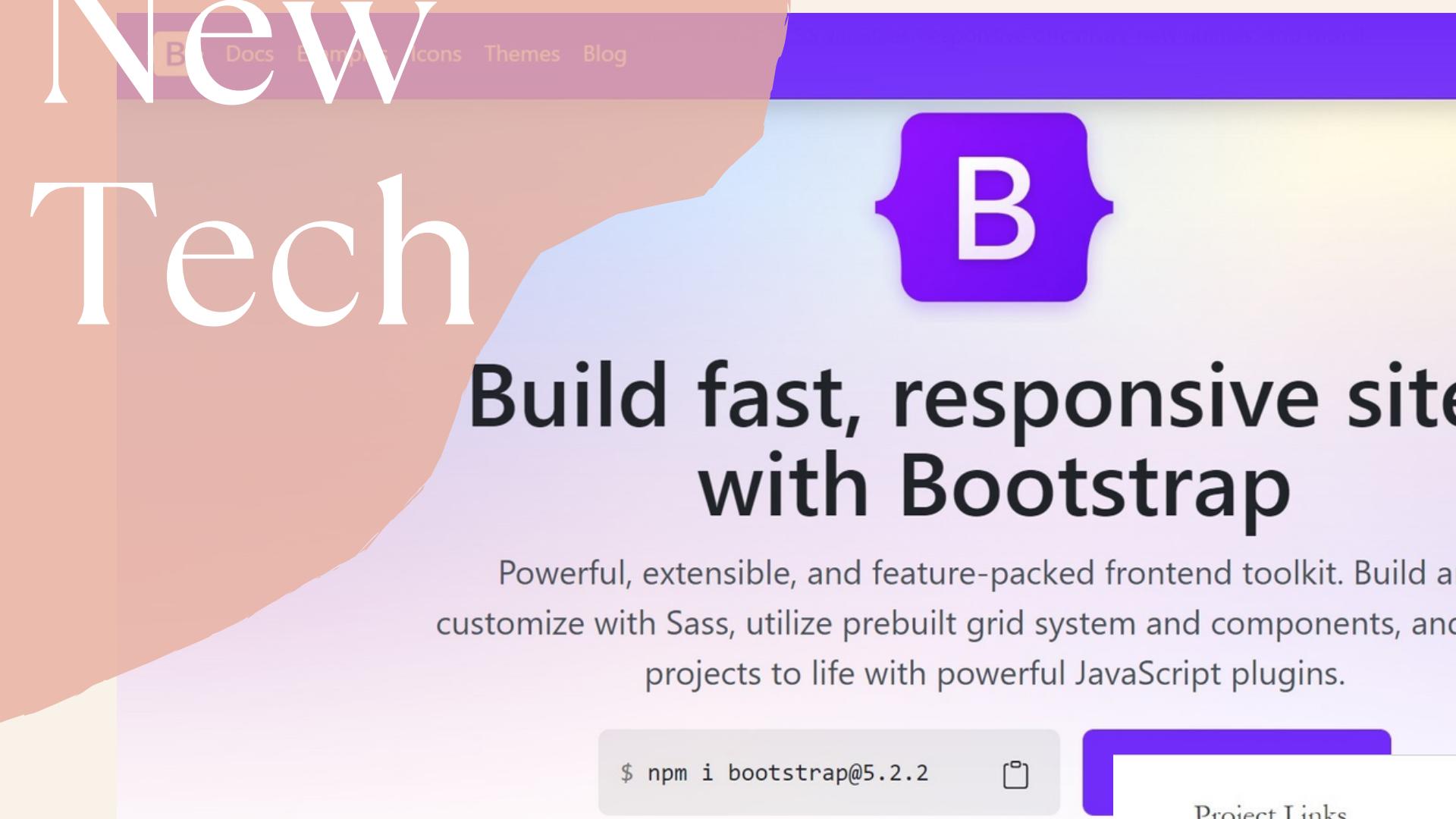


- 1 Version control: Github, Google Docs
- 2 Front-end and Deployment: Flask, Bootstrap
- 3 Programming Languages: Python, Solidity, HTML
- 4 Presentation: Canva deck followed by Flask and crowdsale contract demo
- 5 Development tools: Remix IDE, Jupyter Notebook, Visual Studio
- 6 Blockchain tools: Ganache, Metamask, Open Zeppelin(ERC20, ERC20Detailed, ERC20Mintable, CappedCrowdsale, TimedCrowdsale, RefundablePostDeliveryCrowdsale)

New Tech

Bootstrap:

A free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains HTML, CSS and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.



The Bootstrap landing page features a large purple header with the word 'Bootstrap' in white. Below it is a large purple button with the letter 'B'. The main heading is 'Build fast, responsive sites with Bootstrap'. A subtext below it reads: 'Powerful, extensible, and feature-packed frontend toolkit. Build and customize with Sass, utilize prebuilt grid system and components, and bring projects to life with powerful JavaScript plugins.' At the bottom left is a command-line interface icon with the text '\$ npm i bootstrap@5.2.2'.

Flask:

A micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports extensions that can add application features as if they were implemented in Flask itself.

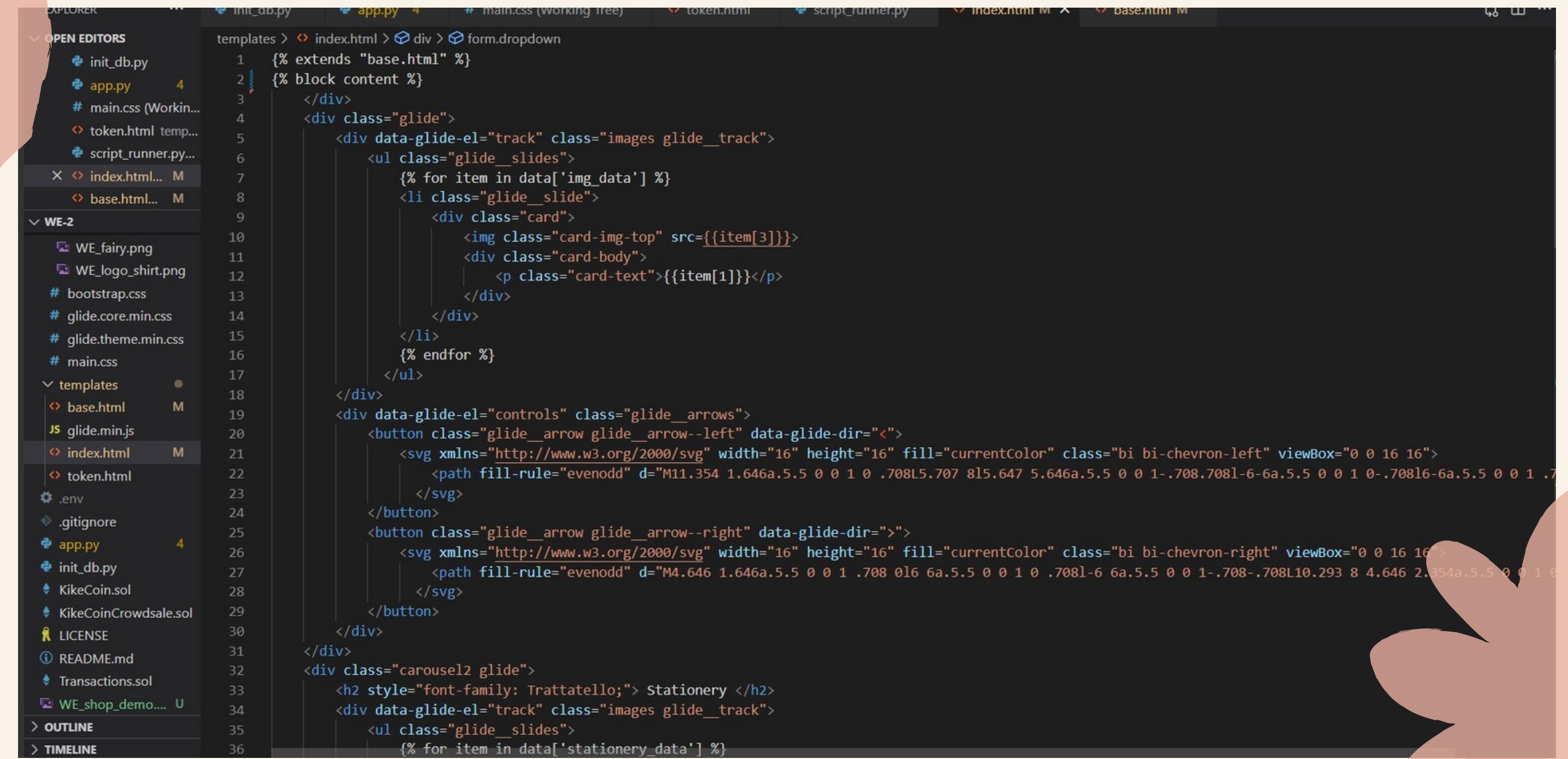


The Flask documentation page features a large logo with a flask and the text 'Flask web development, one drop at a time'. The page includes a 'Project Links' sidebar with links to Donate, PyPI Releases, Source Code, Issue Tracker, Website, Twitter, and Chat. The main content area welcomes users to the documentation, mentioning Installation, Quickstart, Tutorial, Patterns for Flask, API, Jinja, and Werkzeug. It also lists the User's Guide, API Reference, and Additional Notes. A 'Quick search' bar is at the bottom.

New Tech

HTML:

the standard markup language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content



```
1  {% extends "base.html" %} 2  {% block content %} 3  </div> 4  <div class="glide"> 5  <div data-glide-el="track" class="images glide__track"> 6  <ul class="glide__slides"> 7  {% for item in data['img_data'] %} 8  <li class="glide__slide"> 9  <div class="card"> 10  12 <p class="card-text">{{item[1]}}</p> 13 </div> 14 </div> 15 </li> 16 {% endfor %} 17 </ul> 18 </div> 19 <div data-glide-el="controls" class="glide__arrows"> 20 <button class="glide__arrow glide__arrow--left" data-glide-dir="<"> 21 <svg xmlns="http://www.w3.org/2000/svg" width="16" height="16" fill="currentColor" class="bi bi-chevron-left" viewBox="0 0 16 16"> 22 <path fill-rule="evenodd" d="M11.354 1.646a.5.5 0 0 1 0 .708L5.707 8l5.647 5.646a.5.5 0 0 1 -.708.708l-6a.5.5 0 0 1 0 -.708l6a.5.5 0 0 1 .708z" /> 23 </svg> 24 </button> 25 <button class="glide__arrow glide__arrow--right" data-glide-dir=">"> 26 <svg xmlns="http://www.w3.org/2000/svg" width="16" height="16" fill="currentColor" class="bi bi-chevron-right" viewBox="0 0 16 16"> 27 <path fill-rule="evenodd" d="M4.646 1.646a.5.5 0 0 1 1 .708 0 1 0 .708 0 1 0 .708l-6a.5.5 0 0 1 1 -.708-.708L10.293 8 4.646 2.354a.5.5 0 0 1 0 1 0z" /> 28 </svg> 29 </button> 30 </div> 31 </div> 32 <div class="carousel2 glide"> 33 <h2 style="font-family: Trattatello;"> Stationery </h2> 34 <div data-glide-el="track" class="images glide__track"> 35 <ul class="glide__slides"> 36 {% for item in data['stationery_data'] %}>
```

Project Overview:

We will be creating a decentralized marketplace where users will be able to buy, sell, and auction items.





This marketplace
will be value-
centered -

All purchases and items will
contribute to women's
charities both here and abroad

-
<https://www.neemaproject.org>



We will launch a crowdsale to fund Neema Project,

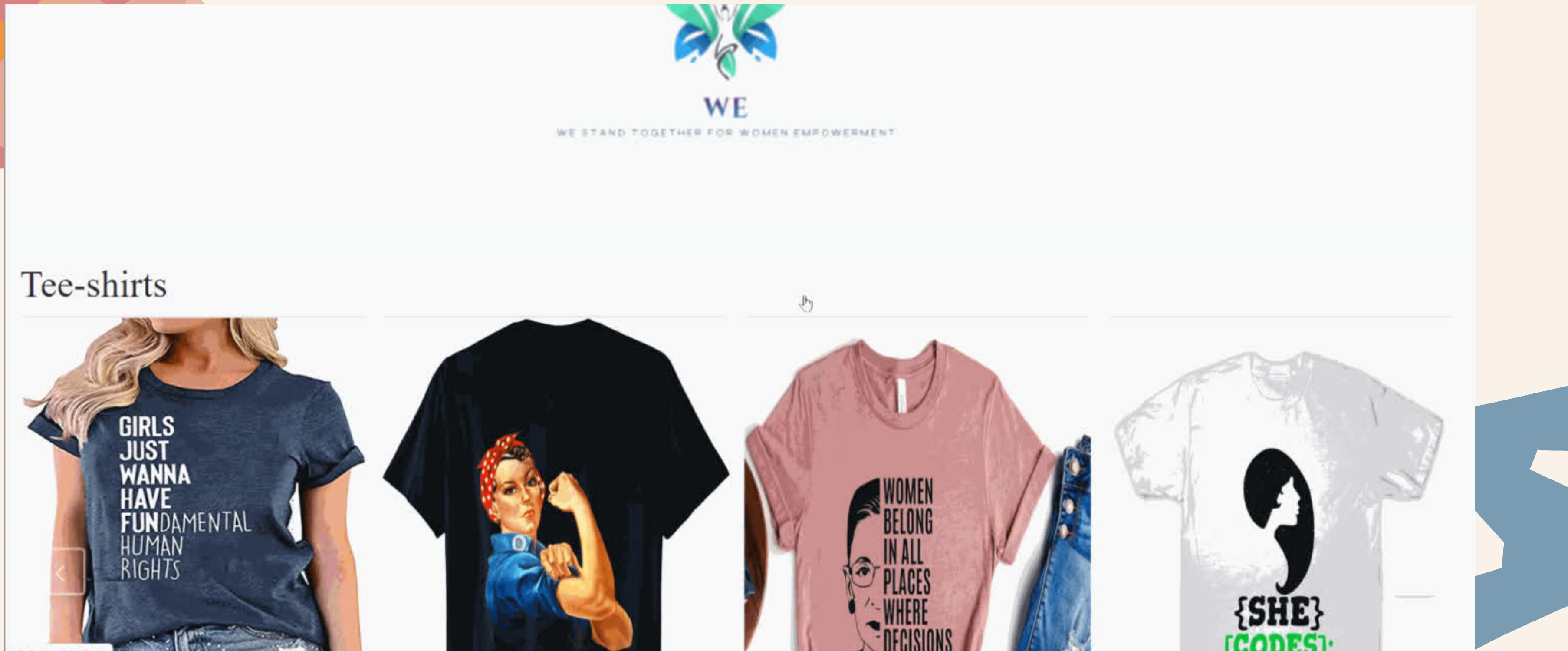
A small nonprofit in Kenya that works to break the cycle of extreme poverty by offering skills training to young women. Our goal is to raise 400 ETH from this crowdsale by minting ERC 20 tokens with the help of open zeppelin in solidity. To achieve this , we'll use advanced solidity concepts to create a crowdsale of new token called "Kikecoin". The token will allow you to purchase items in the marketplace.

What is the Neema Project?

Neema Project provides skills training, counseling & discipleship to young women in Kenya. Helps unleash opportunity to break the cycle of extreme poverty.



WE Marketplace



The online marketplace that allows you to exchange tokens for swag and gifts. All proceeds will be donated to the NEEMA Project

Coding the crowdsale smart contracts:

We have created and compiled 3
smart contracts for this crowdsale:



1. KikeCoin:

This contract is responsible
for creating our KikeCoin
token. Initial supply is 0,
tokens will be minted as
funds are raised. This can
be verified by clicking the
total supply button of the
contract.

2. KikeCoinCrowdsale:

This contract allows us to buy tokens, check balance, finalize the crowdsale, goal reached and claim refunds among other functionality.



3. KikeCoinCrowdsale Deployer:

This contract is a helper contract to setup, configure and deploy our KikeCoin and KikeCoinCrowdsale contracts. It creates two contract addresses: 1 for the token address and another for the token sale address that used to deploy both the contracts.

Note that to fill in the cap and goal parameters, WE used this ETH converter <https://eth-converter.com> to convert 400 ETH to wei.

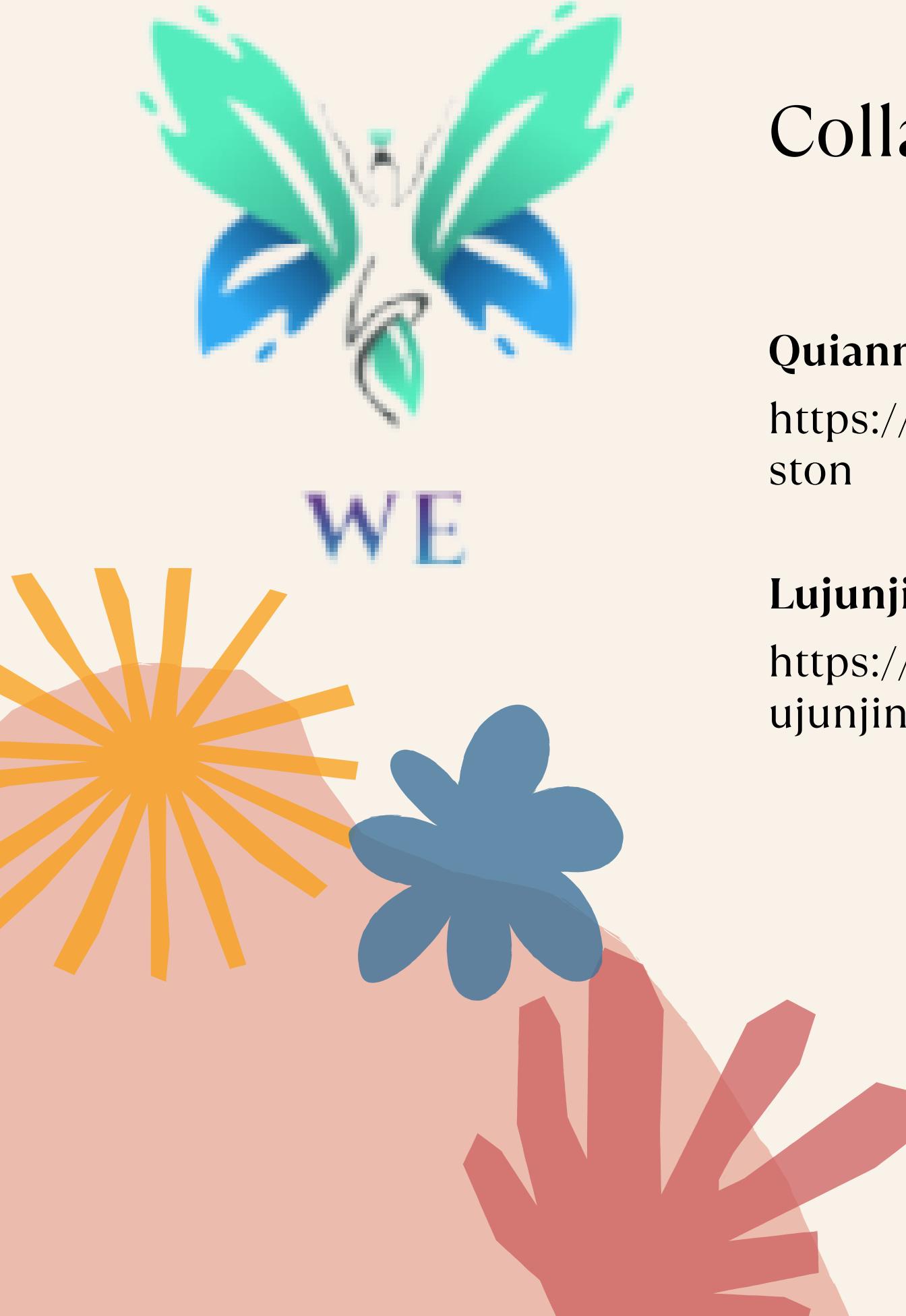
Walk Through



How to improve:

*While we are very proud of our marketplace
WE have room to grow*

- Fully integrating our tokens with the marketplace to make it a singular transaction
- Create user accounts and guest accounts to track rewards and tokens
- Modularizing and code clean up to make it accessible for future development



Collaborators:

Quianna Rolston

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Smruthi Danda

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Lujunjin Liu

<https://github.com/liulujunjin-vivian>

Manisha Lal

<https://github.com/2004-ind>

Github Repository:

<https://github.com/zvahidy/WE-Shop-Marketplace.git>