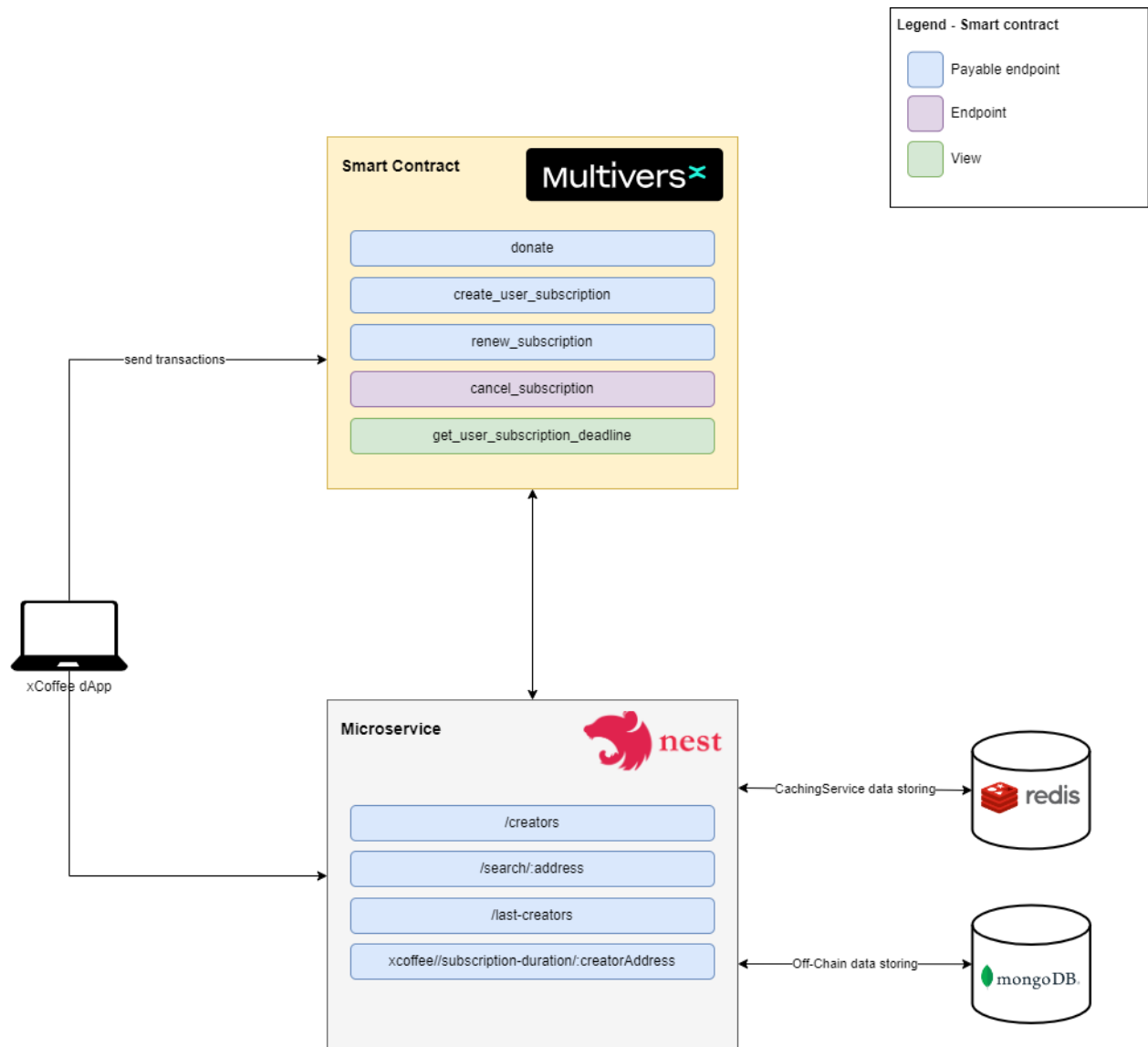


# xCoffee - Technical document

The project code is structured in 3 different repositories:

- dApp: <https://github.com/devomr/xcoffee-dapp>
- Microservice: <https://github.com/devomr/xcoffee-service>
- Smart Contract: <https://github.com/devomr/xcoffee-smart-contract>

## Overview of the application architecture



## dApp project

The xCoffee dApp is based on the mx-template-dapp and is built using React.js and Typescript.

The users can use the dApp to interact directly with the smart contract or with the backend microservice.

The interaction with the smart contract is by sending the transactions: *donate*, *create\_user\_subscription* and *cancel\_subscription*

The interaction with the microservice is by getting the *donate* transactions for a creator, get and save the creator profile details in off-chain database (MongoDB), get the most recent registered creators and get the subscription deadline for an user.

## Microservice project

The microservice component is mainly used to query the smart contract (plus storing in CacheService), MultiversX API (plus storing in CacheService) and getting and saving data in the MongoDB database.

For non-public endpoints, the authentication and authorization process is mandatory and is implemented via the NativeAuthGuard.

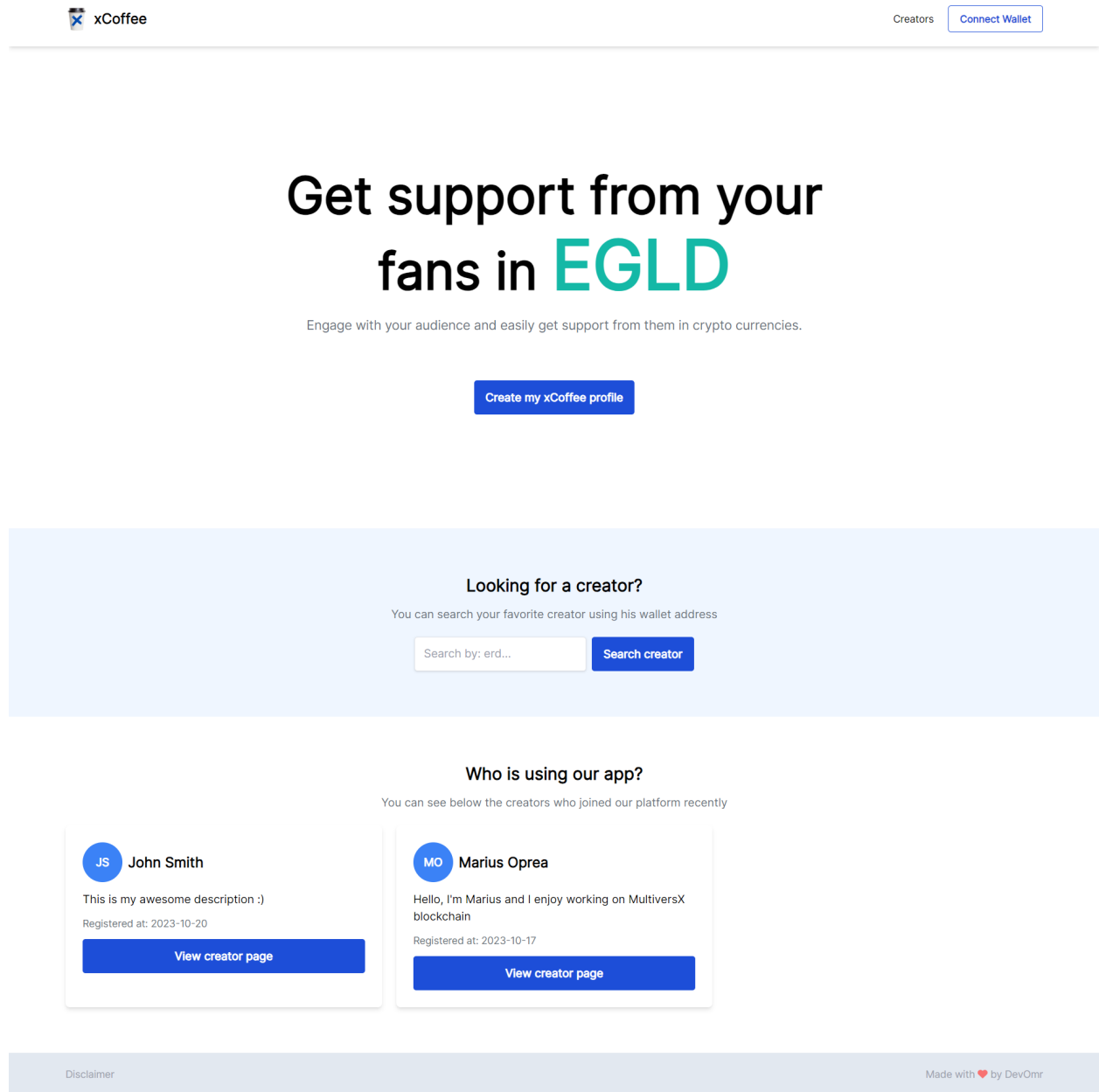
## Smart contract

The smart contract is used to perform the payable transactions (*donate*, *create\_user\_subscription* and *renew\_subscription*), non-payable transaction *cancel\_subscription* and the view *get\_user\_subscription\_deadline*

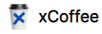
Storage mappers are used to keep track of the smart contract state to fulfill the requirements.

## Screenshots

### Landing page



# Creators page



Creators

[Connect Wallet](#)

## Looking for a creator?

You can see below the creators who joined our platform



**Marius Oprea**

Hello, I'm Marius and I enjoy working on MultiversX blockchain

Registered at: 2023-10-17

[View creator page](#)



**John Smith**

This is my awesome description :)


Registered at: 2023-10-20

[View creator page](#)


Disclaimer

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# Creator Profile page




 xCoffee

Creators [Connect Wallet](#)

 **Marius Oprea** [🔗](#)


♥ 1 supporter(s)

Hello, I'm Marius and I enjoy working on MultiversX blockchain

[Recent supporters](#)  [Membership](#)  [Posts](#) 


**My recent supporters**


You want to be here? Then buy me some coffee ☕

Marius bought you a xCoffee with 0.1 EGLD 

test


[🔗](#)

**Support me** 


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# Creator Membership page

 xCoffee

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 **Marius Oprea** 

♥ 1 supporter(s)

Hello, I'm Marius and I enjoy working on MultiversX blockchain

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### My membership plans

You want to support me and have access to exclusive benefits? Choose what plan suits best for you

#### Pro

- ✓ Access to private community
- ✓ Access to private posts for members

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#### Premium

- ✓ Access to private community
- ✓ Access to private posts for members
- ✓ Monthly consulting calls

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### Support me

 ♥

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# Creator Dashboard page

