



ELIXIR RECORDS

Jorge Sol Gonzalez - z170212
Paula Pousa Martínez -z170068

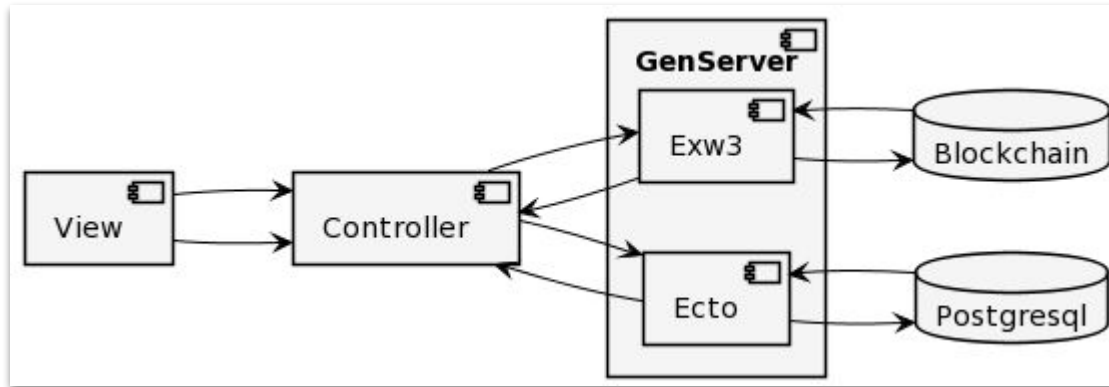
Introduction & Description

What is Elixir Records?

- ▷ Web application to register users assistance to events.



Project Architecture




Tools

- ▷ **Ecto:** Communication with the database, Postgresql.
- ▷ **Exw3:** Communication with the blockchain network, Ganache.
- ▷ **GenServer:** Communication between the client and the different services.
- ▷ **Milligram:** To improve the web page style.

Difficulties encountered

Error keccakf1600

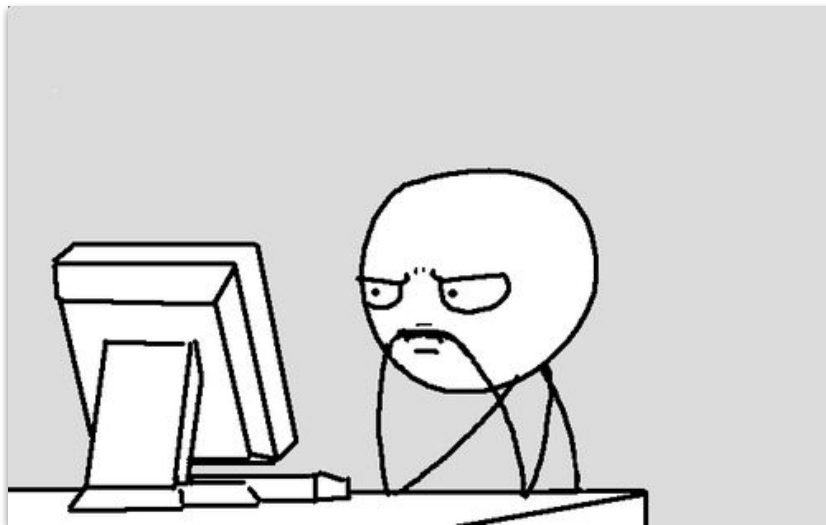
- ▷ **ABI:** keccakf1600_orig > 2.0.0 (app: keccakf1600)
- ▷ **Blockchain:** keccakf1600_orig > 2.0.0 (app: keccakf1600)



```
** (Mix) Could not compile dependency :keccakf1600, "/home/$USER/.mix/rebar3 bare compile -  
-paths="/home/$USER/Documentos/ScalableSystems/ElixirRecords/_build/dev/lib/*/ebin"  
command failed. You can recompile this dependency with "mix deps.compile keccakf1600",  
update it with "mix deps.update keccakf1600" or clean it with "mix deps.clean keccakf1600"
```

Elixir Workers

```
children = [  
  # Start the Ecto repository  
  Elixirrecords.Repo,  
  # Start the Telemetry supervisor  
  ElixirrecordsWeb.Telemetry,  
  # Start the PubSub system  
  {Phoenix.PubSub, name: Elixirrecords.PubSub},  
  # Start the Endpoint (http/https)  
  ElixirrecordsWeb.Endpoint,  
  # Start a worker by calling:  
  # Elixirrecords.Worker.start_link(arg)  
  # {Elixirrecords.Worker, arg}  
  {Elixirrecords.Server, :ok},  
  ExW3.Contract  
]
```



LIVE DEMO



Evaluation of frameworks and libraries used

Exw3 Advantages vs Disadvantages

- Allows basic functionalities.
 - Deploys Smart Contracts.
 - Creates new users.
 - Interacts with Smart Contract.
 - Sends transactions.
- Easy to use.
- Brings all the necessary dependencies by default.

- Lack of documentation.
- Some methods are implemented but doesn't seem to work.
- Only compatible with Ethereum networks, like Ganache.
- It seems impossible to recover blockchain events.

Thanks!

And have a good
summer.