

1 Preface

1.1 Introduction: Energy Heaven

Energy Heaven is an idea born out of the desire to contribute to the green development of the planet. It is aimed at the exchange of renewable energy within energy communities, through the use of blockchain.

This project was realised as a team as the final project of the Blockchain and Distributed Ledger Technologies course of the MSc in Cybersecurity at 'La Sapienza' University of Rome.

1.2 Team and responsibilities

The team consists of the following members with their respective responsibilities during the development process:

- Andriani Simone: Project design, software architecture, token engineering, smart contract development, javascript development, report writing.
- Marcuccio Francesco: Project design, software architecture, smart contract development, middle-ware, server back-end and front-end development.

1.3 Project phases

The project implementation phases were as follows:

- Project conception and design;
- Infrastructure setup: setting up Ganache and Truffle;
- Software architecture: conceptual diagramming of the main components;
- Smart contract programming using Solidity;
- Middle-ware programming using javascript;
- Front-end development using html, css and javascript;
- Server development using php;
- Report writing.