Cyprus International University

Faculty of engineering

Department of Software Engineering

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Masked Face Recognition System (MFR)

Work breakdown structure

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WORK BREAKDOWN STRUCTURE

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1.0 Statement of purpose

The purpose of this document is to provide a record of the different tasks that need to be completed for MFR project. This document contains a list of these tasks arranged in a hierarchical order.

2.0 Work breakdown structure

1. Hardware connecting
    - 1.1. RFID connecting
        - 1.1.1. Connect the RFID Reader
        - 1.1.2. Connect the LED’s t
        - 1.1.3. Connect the alphanumeric LCD
        - 1.1.4. Connect the micro servo motor
    - 1.2. Masked face recognition connecting
        - 1.2.1 Connect the camera
        - 1.2.2 Connect the wavesshare LCD screen
    - 1.3. Sensors connecting
        - 1.3.1 Connect the distance sensors
        - 1.3.2 Connect the gas sensor
        - 1.3.3 Connect the flame sensor
        - 1.3.4. Connect the speaker
    - 1.4. Network connecting
        - 1.4.1 Connect the ethernet port

1.5. Power and electricity connecting

1.5.1 Connect the 9V battery to the Arduino

1.5.2. Connect the power cable adapter to the Arduino

2. Coding

2.1. RFID Coding

2.2. Face recognition coding

2.3. Masked face recognition

3. Database creation

3.1. Database schema preparing

3.2. Database coding

3.3. Adding data to the database

3.4. Database connecting

4. Smart contract development

4.1. chainlink to Kadena blockchain bridge

4.2 Smart contract designing

4.3. Smart contract coding

4.4. Smart contract testing

4.4.1 Testing the system with the smart contract on testnet

4.4.2 Testing the system with the smart contract on mainnet

4.5 Deployment on mainnet

5. Testing

5.1. Testing the connection of hardware parts

5.2. Testing the system

5.2.1 RFID code testing

5.2.2 Face recognition code testing

5.2.3 Masked face recognition code testing

5.3. Testing the connection of the database

5.4. Testing the system with the smart contract on the test net

5.5 Testing the system with the smart contract on the mainnet