

Cyprus International University

Faculty of engineering
Department of Software Engineering
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Masked Face Recognition System (MFR) Human Resource Management Plan

Project Supervisor

Assist. Prof. Dr. Parvaneh ESMAİLİ

Authors

Ahmad Jawabreh & Zaid Mohtaseb

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1.0 Revision History

There are no changes.

2.0 Statement of Purpose

The purpose of this document is to provide a description of when and how different individuals will be added to and removed from MFR project. This document includes (a) a project overview, (b) information about the project organization, (c) the resource requirements for MFR project, (d) the resource assignment to different tasks of the work breakdown structure, (e) any known constraints, (f) any contingency plans, (g) training requirements, if any, (h) how human resource documentation will be conducted, (i) guidelines for managing change to the resource needs, (j) the rules for modifying the human resource management plan, and (k) the signature of key stakeholders.

3.0 Project Overview

3.1 Overview of the Organization

AZFCO. is a company started by three university students in North Cyprus, Our goal is to focus on the AI project based on high security network using blockchain networks with PoW consensus protocol, MFR project is a one of the AI projects also its based on blockchain network (KADENA) with PoW consensus protocol which follows our company aims, Our aim is to create fully recognition system that can recognize users voice, masked face, palm, finger print without touch and create a god eye system connected to out fully recognition system.

3.2 Current Situation and Problem/Opportunity Statement

Normal facial recognition systems have ability to recognize not covered faces, so this technology can be used as a personal security system such iPhone face ID, Lock and unlock the doors using face recognition, and etc.

If we need a system for public control like the systems that is used in China for public control, we need a system that is stable, accurate, and high efficiency but the current facial recognition technology is breakable because who want to make a crime will cover his/her face with a mask and the current technology is unable to recognize masked faces, so the criminal will simply get away with his crime, So we need a system meet this specifications and unbreakable.

So using a masked facial recognition system will add this advantages to the main system and we will have a high accurate system and using the blockchain networks for the system communication will make the system unbreakable.

This masked face recognition technology can be used as a sub system within God eye technology using the blockchain networks for communicating and chainlink technology to collect off-chain data, here we are talking abut closing the gap of the security, accuracy and efficiency.

3.3 Project Objectives

Project outputs:

- Masked Face Recognition System
- Alternative authentication method, RFID system
- Blockchain connection to data transfer and validation

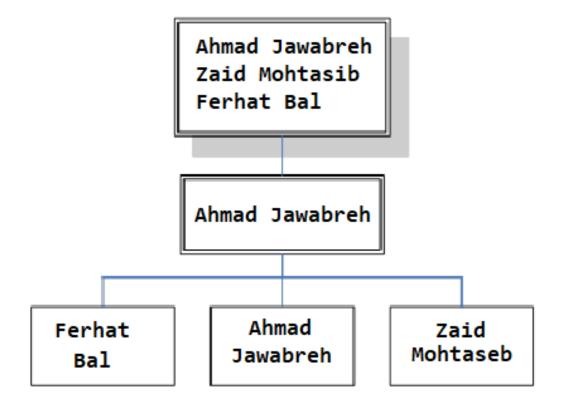
Project benefits:

- Masked Face recognition system for locking and unlocking the door.
- Masked Face recognition system as part of god eye project for public control.
- Masked Face recognition system can be used for face passport (Biometric passport).
- Solving the problem of inability to recognize masked faces which means solving of huge crimes.

4.0 Project Organization

4.1 Project Team

<u>Name</u>	<u>Role</u>	Phone Number	<u>Email Address</u>
	Project Manager		
Ahmad Jawabreh	Hardware Specialist	+972592675704	Ahmadjawabreh@protonmail.com
	Smart Contract Developer		
Zaid Mohtasib	Software Engineer	+97256937208	Zaidmoh@protonmail.com
Ferhat Bal	QA Specialist	+905338817935	ferhatbal@protonmail.com

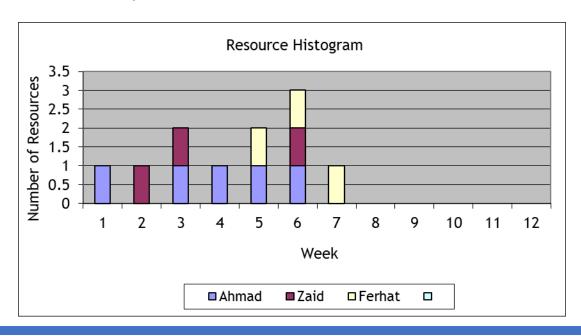


4.2 Key Stakeholders

Conduct a stakeholder analysis to identify key stakeholders, such as the project sponsor, project champion, as well as any external stakeholders, such as suppliers. Also include all pertinent information necessary to communicate with them.

	Zaid Mohtaseb	Ahmad Jawabreh	Ferhat Bal
Role Project	Project SponsorSoftware EngineerManagement team member	 Project Sponsor Project Manager Hardware Specialist Smart contract developer 	 Project Sponsor Quality Assurance team Management team member
Organization	AZFCO.	AZFCO.	AZFCO.
Contact Information	Zaidmoh@protonmail.com	Jawabreh@protonmail.com	Ferhatbal@protonmail.com
Unique Facts	Prefers use GitHub for project code	Prefers use of email for project documents	Prefers use GitHub for project code and test sheets
Level of Interest	High	High	High
Level of Influence	High	High	High
Suggestions for managing relationships	Keep informed of all project progress	Keep informed of all project progress	Keep informed of all project progress

5.0 Resource Requirements



6.0 Resource Assignment

Task ID	Task	Team member
1	Hardware connecting	Ahmad (P)
1.1	RFID connecting	Ahmad (P)
1.1.1	Connect RFID Reader	Ahmad (P)
1.1.2	Connect the LED's	Ahmad (P)
1.1.3	Connect the alphanumeric LCD	Ahmad (P)
1.1.4	Connect the micro servo motor	Ahmad (P)
1.2	Masked face recognition connecting	Ahmad (P)
1.2.1	Connect the camera	Ahmad (P)
1.2.2	Connect wavesshare LCD screen	Ahmad (P)
1.3	Sensors connecting	Ahmad (P)
1.3.1	Connect the distance sensors	Ahmad (P)
1.3.2	Connect the gas sensor	Ahmad (P)
1.3.3	Connect the flame sensor	Ahmad (P)
1.3.4	Connect the speaker	Ahmad (P)
1.4	Network connecting	Ahmad (P)
1.4.1	Connect the ethernet port	Ahmad (P)
1.5	Power and electricity connecting	Ahmad (P)
1.5.1	Connect the 9V battery	Ahmad (P)
1.5.2	Connect the power cable	Ahmad (P)

2	Coding	Zaid (P)
2.1	RFID Coding	Zaid (P)
2.2	Face recognition coding	Zaid (P)
2.3	Masked face recognition	Zaid (P)
3	Database creation	Zaid (P)
3.1	Database schema preparing	Zaid (P)
3.2	Database coding	Zaid (P)
3.3	Adding data to the database	Zaid (P)
3.4	Database connecting	Zaid (P)
4	Smart contract development	Ahmad (P)
4.1	chainlink to Kadena blockchain bridge	Ahmad (P)
4.2	Smart contract designing	Ahmad (P)
4.3	Smart contract coding	Ahmad (P)
4.4	Smart contract testing	Ferhat (P)
4 4 4	Tasking the greaters with the consent	Ahmad (S)
4.4.1	Testing the system with the smart	Ferhat (P) Ahmad (S)
	contract on testnet	Aiiiidd (3)
4 4 2	Testing the system with the smart	Ferhat (P)
4.4.2	Testing the system with the smart contract on mainnet	Ahmad (S)
4.5	Deployment on mainnet	Ahmad (P)
5	Testing	Ferhat (P)
5.1	Testing the connection of hardware	Ferhat (P)
J. 1	parts	Ahmad (S)
5.2	Testing the system	Ferhat (P)
3.2	resting the system	Ahmad (S)
		Zaid (S)
5.2.1	RFID code testing	Ferhat (P)
5.2.2	Face recognition code testing	Zaid (S) Ferhat (P)
J. Z. Z	i ace recognition code testing	Zaid (S)
5.2.3	Masked face recognition code testing	Ferhat (P)
		Zaid (S)
5.3	Testing the connection of the	Ferhat (P)
	database	Zaid (S)
5.4	Testing the system with the smart	Ferhat (P)
1	contract on the test net	Ahmad (S)
		E 1 (/b)
5.5	Testing the system with the smart contract on the mainnet	Ferhat (P) Ahmad (S)

7.0 Resource Constraints

Experts from Chainlink Labs have already been hired, who are responsible for creating the smart contract (bridge) that will connect the KADENA network with the Chainlink network, and the same experts have been asked to help the team to solve a problem that we encountered in the truffle environment.

8.0 Contingency Plans

15% of the company's net profits will be continuously deducted and placed in the company's treasury to serve as the company's reserve in case we face any financial problem that requires liquidity.

9.0 Training Requirements

- Hardware Team:
 - Bachelors Degree in Computer Engineering, Electrical and Electronic Engineering or a related technical discipline.
 - Extensive experience with Arduino, RaspberryPi and Microcontrollers.
- Software Team:
 - > Bachelors Degree in Software Engineering, Computer Science or a related technical discipline.
 - Extensive experience with Python.
- Smart contract team:
 - Write well-documented, performant, clean, and re-usable Solidity code.
 - Familiar with EVM environments
 - Familiar with Pact and Plutus programming languages.

11.0 Human Resource Change Management Process

Changes will be overlooked carefully. But before the changes, it will be discussed as to why the change is needed and if that change is even enough to fix the main problem and we will also look for the risks revolving around the said change and then it will be implemented upon approval. The changes will be implemented in the simple following 4 steps:

- Preparing for Change
- Initiating Change
- Putting Change in Place
- Stabilizing Change

12.0 Plan Modification Rules

- Any changes on the plan need the project manager approval.
- Changes related to the financial issues needs the approval of the finance department with the project manager approval.
- Changes related to the hardware work needs the approval of the hardware department with the project manager approval.
- Changes related to the software work needs the approval of the software department with the project manager approval

13.0 Approval Signatures

Project Manager:

As project manager on MFR project, I have reviewed the information contained in the Human Resource Management Plan and agree to its content.

Name	Position	Signature	
Ahmad Jawabreh	Hardware Specialist - Smart Contract Developer	Dawabreh	

The signatures above represent stakeholders' agreement and acknowledgement of the information contained in this document.