

Blockchain and Smart Contracts on OFW employment, contract management, and money remittance.

Overseas Filipino Workers

The Overseas Filipino Workers (OFWs) are considered as the modern day economic heroes. With more than 10 million Filipinos working overseas, their remittances account for 8.5% of the gross domestic product. In the 2015 survey by the Philippine Statistics Authority, one out of three OFWs are unskilled, and worked as domestic workers, cleaners or in the service sectors. As female workers outnumber the male workers, mostly aged from 24-29 years old, they are at the most vulnerable to abuses, including financial abuses. There is currently no system available that will prevent these abuses, besides victims reporting these said abuses themselves.

Current process:

The table below shows the three processes in an OFW's life, that we will focus on.

Process	Current Process	Problem
Recruitment	<ol style="list-style-type: none">1. Employers post job opening2. Recruitment agencies attract applicants3. Interviews will be conducted to filter out the applicants.4. The company will then now select the most suitable person for the job5. The terms and conditions of the contract will be decided.6. The recruitment agency will get their percentage7. The recruitment agency will handle the applicant's paperwork	<ol style="list-style-type: none">1. Illegal recruiters
Contract management	<ol style="list-style-type: none">1. The worker will draft his report2. Worker will send his report to the nearest labor tribunal3. There will be a conciliation meeting between the two parties.	<ol style="list-style-type: none">1.No one monitors if the contract is followed2. Long process of trial

	4. If no settlement is reached, the trial will continue	
Money remittance	<ol style="list-style-type: none"> 1. Worker receives his salary 2. Worker will find remittance company to send his money. 3. Worker sends his money via remittance company 	1.Expensive remittance fee

Proposed System

The table below summarizes the solutions we propose to the problems identified in the previous section.

Process	Problem	Solution
Recruitment	Illegal recruiters	A web app where employers, recruitment agencies, and applicants can freely interact with each other wherein each user is given an overall rating depending on the results of their smart contracts. People will then know which companies to avoid due to low ratings. Also, the smart contract will automatically report the agencies/employers who have failed to follow the contract.
Contract management	<ol style="list-style-type: none"> 1.No one monitors if the contract is followed 2.Long process of trial 	Smart Contracts will automatically reduce the ratings of people/companies who have failed to follow the contract. Since every contract is stored in the blockchain, monitoring of the results of contracts is now possible.
Money Remittance	Expensive remittance fee	Through the implementation of Smart Contracts and Smart Contract Oracles,cheap and automatic money remittance is made possible since there

		will no longer be a need for middlemen. Smart Contracts will control when and where money should be transferred depending on the agreement of the parties.
--	--	------------------------------------------------------------------------------------------------------------------------------------------------------------

References:

About SmartContract.com. (2015, December/January). Retrieved November 23, 2016, from <http://about.smartcontract.com/>

DOLE chief wants death penalty for illegal recruiters. (2016, June 19). Retrieved November 23, 2016, from <http://www.philstar.com/headlines/2016/06/19/1594516/dole-chief-wants-death-penalty-illegal-recruiters>

Guzman, A. W. (n.d.). Hundreds of Filipinos losing jobs in Saudi Arabia. Retrieved November 23, 2016, from <http://news.abs-cbn.com/business/v1/02/03/16/hundreds-of-filipinos-losing-jobs-in-saudi-arabia>

Hapal, D. (2016, July 21). Thousands of OFWs remain stranded, unpaid in Saudi Arabia. Retrieved November 23, 2016, from <http://www.rappler.com/move-ph/balikbayan/140478-saudi-arabia-ofws-stranded-oil-crisis>

Sevidal, M. (2015, May 5). Which countries sent the most OFW remittances? Retrieved November 23, 2016, from <http://www.rappler.com/move-ph/balikbayan/91825-ofw-remittances-2014>

The Right Way of Hiring Filipino Workers (through a Recruitment Agency). (2014, January 2). Retrieved November 23, 2016, from <https://www.workabroad.ph/article/15/The-Right-Way-of-Hiring-Filipino-Workers--through-a-Recruitment-Agency->

Villarama, M. S., Jr. (2012, June 28). Culture of Delay - Court of Appeals of the Philippines. Retrieved November 23, 2016, from http://www.bing.com/cr?IG=EA81E57002644B8789ECCD8F60B10433&CID=33EBF2474AD86E681FF3FB914BE96FCD&rd=1&h=Mw6LfJdDV3VoJxBE0QZ6Np9PXGoQvI_P3E7m7Wesu-8

ATOS IT Challenge 2017 Entry

Neil Capistrano

Dominique Dagunton

http://ca.judiciary.gov.ph/index.php?action=mnuactual_contents&ap=j6040&p=DevEx.5039.1

What is Blockchain ? (2016, September 1). Retrieved November 23, 2016, from http://www.ibm.com/blockchain/what_is_blockchain.html