**Project Title: RICE-IN-A-BLOCK**

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**Short Description**

Back in September of 2018, The Philippine Daily Inquirer posted a news article about the ongoing rice shortage at that time, highlighting the statement by the President, Roa Rodrigo Duterte, saying that the rice shortage we experienced was an artificial one and the result of traders hoarding supply and letting the prices of rice skyrocket before releasing their supply resulting in them increase their profit, even house minority representative Danilo Suarez made a comment on how it inflated the price of rice to 80 pesos per kilo.

All of this can be boiled down to a bad supply chain management since those with power have the ability the manipulate the supply chain and profit from those manipulation and that is why we came up with Rice-In-A-Block. A web application that will decrease the data manipulation using the features of Blockchain Technology as a way to maximize data security, accuracy and reliability and that will also increase awareness of everyone including local farmers and local consumers of our local rice supply from anywhere in the world with internet connection.

**Purpose**

After determining that the possible cause of this is a bad supply chain management, we thought to ourselves “why not make everything transparent” and tackle the root of the problem, so we decided to create an web application that can show the current rice supply in order for everyone including local farmers and consumers be aware of our current rice supply in every region and in every month, and record its prices according to the supplier using blockchain as an immutable way to store records so that businessmen and retailers cannot take advantage of calamities and artificial shortages to make profit.

**Technical Innovation**

With our current rice supply chain management system, it is almost impossible for us, normal consumers, to know the current Rice that we actually have in our region or city. So, we the developers have decided to make it transparent for everyone from our local rice farmer down to our local consumers using our web application Rice-In-A-Block.

Using the Blockchain Technology as immutable way to store records and web application which makes way to connect everyone from anywhere in the world and using graphs and tables to display data from Blockchain which makes the system more reliable, secure, efficient and accurate which also made way to a new Supply Chain Management System that not only the corporation and traders could know like before.

With Rice-In-A-Block it is more possible for everyone, locally, to always be up to date with our rice supply and to help the National Food Authority and Local Government Units to secure their rice supply chain and to improve their management without doubt.

**Target Market**

We plan to offer this service to the National Food Authority (NFA) which will mandate and enforce all Local Government Units (LGU) to use the system for an annual subscription fee, to help them secure the rice supply management. This will also help better track the supplies and those suppliers or retailers that will overcharge or hoard the rice supply. They can also use this to provide advance aid to areas experiencing rice shortage, we can also offer this service to suppliers, since they can use this to help them plan out their future supply routes for better management.