**Executive Summary**

The NDRRMC Monitoring System is a system where Local Government Units or LGUs can view summary reports of all disasters that their area encountered. The system also allows National Risk Reduction Management Commission (NDRRMC) to give real time advisory to the LGUs and LGUs can request supplies from logistics on what they need to be prepared. Using the summary reports, this can be used as a reference of LGUs on what and how many items to request and where to deliver it. With this, it can help the Local Government Units be aware and prepared for a calamity.

**Project Context**

National Risk Reduction Management Commission (NDRRMC) Monitoring System easily monitor and identify the needs of the area that is going to be affected before a calamity happens. This will allow ease of access to information for NDRRMC and other Government Agencies. The use of NDRRMC Monitoring System it will give awareness and public safety to the community to be well prepared in incoming disaster. By using this system, it may reduce the number of families that will be affected.

**Objectives**

*General Objectives*

* The NDRRMC Monitoring System is a system that can help NDRRMC to quickly give advisory to LGUs while LGUs can easily request for supplies.

*Specific Objectives*

* To enable LGUs view reports of previous disasters.
* To enable LGUs to request needed supplies for preparing to upcoming disaster.
* Give NDRRMC the ability to inform LGUs about the upcoming disaster.
* To let LGUs to experience simple and efficient requesting of supplies.

**Scope and Limitations**

These are the coverage of NDRRMC Monitoring System are:

* NDRRMC Monitoring System Admin can create account for M/CDRRM Admin
* NDRRMC Monitoring System Admin sends predicted disaster details and predicted areas to be affected
* M/CDRRM request needed supplies to Logistic
* NDRMMC Monitoring System provides dashboards

The NDRRMC Monitoring System is limited only to create account for Municipalities/Cities Monitoring System Admin. Also, the disaster details that is being send to M/CDRRM is base from the report of DOST-PAGASA and PHIVOLCS.

**Technical Background**

To develop the system, the project team will use Cassandra database, a NoSQL or Not Only Structured Query Language that supports storing images and maps and to enable the system generate a report, the team will use a Business Intelligence tool that is free to use. Lastly, to create the log in system and user interface of the system, the team will use a Yii2 Framework.

**Methodology**

The process starts when NDRRMC Admin sends a predictive disaster details to M/CDRRM monitoring admins for their preparation in the incoming disaster. When M/CDRRM Monitoring admin receives the report from NDRRMC Monitoring, municipality/city monitoring admin sends a request of needed supplies to the logistic, by there the process of logistic, inventory and procurement system will apply.

**Requirements Documentation**

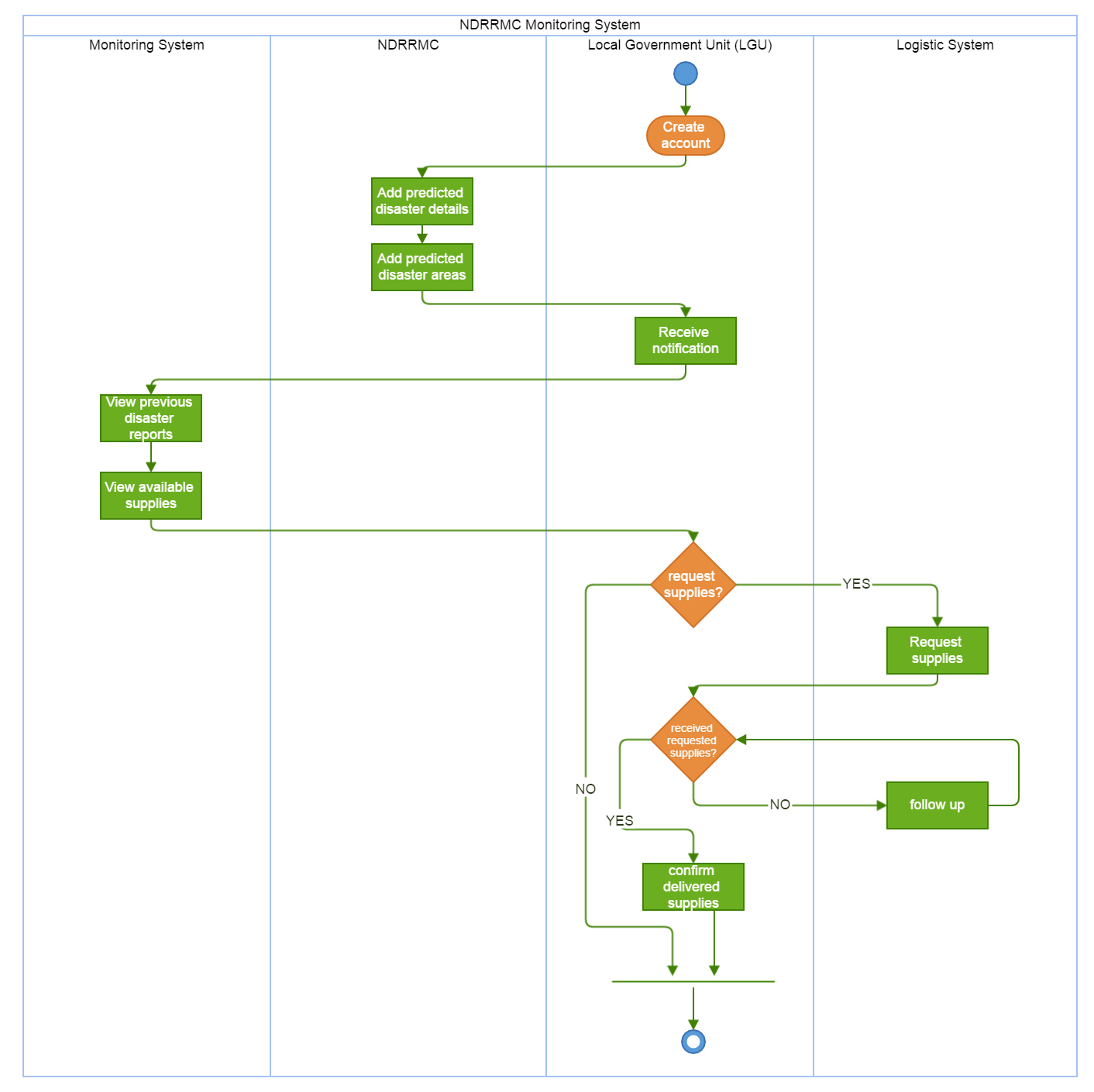
*Input*

* LGU users must register in the system.
* LGU users will input the basic information of their Region, Province or City.
* NDRRMC or the admin must input the information of predicted disaster.
* LGUs must request for supplies needed before a calamity happens.

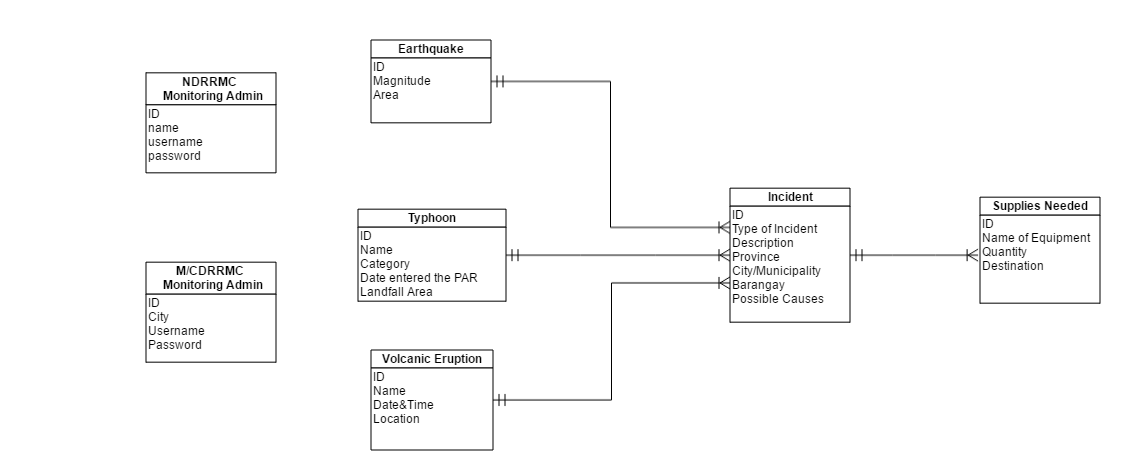
*Output*

* The Business Intelligence tool must use data from database used by all other operations.
* The Business Intelligence tool must generate reports.
* LGUs can only view their own data.
* LGUs can track the supplies they requested.

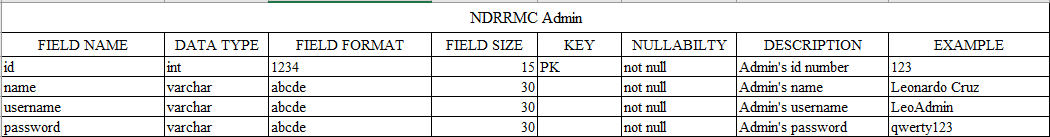
**Activity Diagram**



**ERD**

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**Data Dictionary**

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