**COLLEGE OF COMPUTER STUDIES**

***Bachelor of Science in Information Technology***

***Quantitative Laboratory***

***Laboratory Work #3***

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***TOPIC 1:*** *Flood Tracker Alarm System*

***CONCEPTUAL FRAMEWORK***

**INPUT PROCESS OUTPUT**

Data Analyzation

Alarming users through a used of alarm notification either alarming sound in their area or text via SMS.

Early warnings sent to users and emergency services.

Safety among citizens in the community would be held.

Details from flood sensors measuring based on water, rain, and soil conditions.

Data sent wirelessly to a central system for analysis and propagation.

With the use of conceptual framework above, our proposed project system would clearly show how it operated based on the given framework containing the input, process, and output that our system has. In terms of the input, it serves as the variables needed for us to be able to track the details needed for our system. As you can see, the main variables that should be a must for us to track the flood are the water, rain and the soil condition of one area. With that, our system would automatically detect what condition are held, whether it is alarming or not with the help of three variables. Once the system detects the details needed, the data would automatically be sent to a central system for analysis and propagation. While on the other hand, in terms of the process, once the inputting of all the data needed on tracking, our system would go through a data analyzation for us to be able to know what the condition of the area was, it’s either alarming or not. Once the data analyzation already been conducted, our system would notify the user if the condition is risky, with the help of alarm sound on the area or text messages via SMS. While, in terms of the output, once the input and process would be held, it will give effectiveness towards on the citizens and community a safety living hood where accidents on a calamity such as flood would be avoided.

***THEORITICAL FRAMEWORK***

*Factors that Key Persons for the*

*can affect the community. Flood Tracker Alarm System*

With the use of theoretical framework above, our proposed project system would clearly show the factors that affect the one designated community, and the key people who belong to our proposed project system. As you can see, each factor and key person contains four main sub circles. In terms of the factors that can affect the community, it contains four different subs, which are the community status, community awareness, community consideration accessibility & accessibility, and the safety among the citizens and community. With that, it was clearly shown that there are the probable factors that our proposed project may give on the designated community we choose, and for the citizens of this itself. While on the other hand, in terms of the key persons that our proposed project has, it contains four sub circles which contains citizens, government officials, emergency services personnel, system developers & technicians. With that, it clearly shown that these are the people who belong to our proposed project for us to be able to successfully conduct and propagate this kind of system project. All in all, that was the people that we may help us to propagate our proposed project and system, and the factors that probably gave of our proposed project system in one community.