**BARANGAY LIBERTY ABAL PIG FEEDING GUIDE AND MONITORING SYSTEM**

A project study

presented to

the faculty of

South East Asian Institute of Technology

College of Information and Communication Technology

In partial Fulfillment

of the requirement for the subject

IT 323: System Integration and Architecture 1

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**Project Proposal**

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1. **Proposed Case Study Title:**

BARANGAY LIBERTY ABAL PIG FEEDING GUIDE AND MONITORING SYSTEM

1. **Area of Investigation**

BARANGAY LIBERTY NORALA, SOUTH COTABATO

1. **Cited Problems**

* Hog raiser lacked overall proper guidance for feeding, breeding, farrowing, etc.
* Pigs are not feed on time and pig pen’s cleaning schedules are not followed caused by the amount of task the feeder needs to accomplish.
* The feeder can’t provide the date of slaughter for each pig because of ineffective recording that will lead to over aging of the meat production that can affect the quality of the meat.
* Female pig’s farrowing period aren’t monitored properly since the personnel follows the estimation process which leads to unprepared birthing of sow.
* Improper reporting of monthly expenses due to traditional method of recording.

1. **Function of the Proposed System**

The BARANGAY LIBERTY ABAL PIG FEEDING GUIDE AND MONITORING SYSTEM is design to automate and optimize the feeding process and health monitoring pigs. Creates and manages feeding schedules based on the pig’s nutritional needs, age and growth age. Keep records of feeding times, quantities, and health data, generating reports for better farm management.

1. **Features of the Proposed System**

* Feeding, breeding and farrowing Guide Module.
* Notifies hog raiser of daily feeding and cleaning schedules.
* Tracks the age of pig’s and notifies the hog raiser when it reaches the appropriate age for slaughter.
* Track each sow's breeding date and farrowing period accurately.
* Provide a monthly expenses report.

1. **Programming Language and Database**
   1. **Front End: ­­­­­­­­­**HTML, CSS
   2. **Back End:** PHP, My SQL (Database)
2. **Reason for the Choice**

* To be able to develop a system that will provide a proper feeding guidelines for the pigs.
* To be able to develop a system that will notify the user/ worker about the feeding time schedules and for pig pen’s cleaning.
* To be able to develop a system that tracks the appropriate age of pigs for slaughter.
* To be able to develop a system that will provide a breeding time and guideline for female pig and notify the users of the farrowing period.
* To be able to develop a system that will provide monthly expenses report of the farm.

1. **Importance of the Study**

This study is enhances feed efficiency, promotes optimal growth and health, reduces waste, and improves overall profitability. By providing structured guidance and real-time monitoring, it helps ensure that pigs receive the right nutrients at the right times, minimizes costs, and supports better management decisions.

1. **Target Users**

* **Farmer**

This system will help the farmer to provides precise feeding schedules and recommendations, ensuring pigs receive the right amount of nutrients at the right times, which enhances growth rates and overall health. Helps monitor and control feed usage, minimizing waste and reducing overall feed costs.

* **Owner**

This system will help the Owner by optimizing feed use and reducing waste, the system helps lower feed costs and improve the overall profitability of the farm.