



**Design and Implementation of a web-based Farmer to Buyer Information System**

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# GENERAL INTRODUCTION

# Introduction

Agriculture in Poland is considered a major contributor to economic growth, and development and is important for the food security of Poland. This sector not only meets the food demands of the population but also provides raw materials for industry besides providing a surplus for exports. This sector has proven great potential to support the nation’s economy both now and in the future only if consideration is given to solving rising issues. Reasonable agriculture growth and improvement rely on how concerns of various partners particularly farmers who are facing several risks in farm production and marketing of their farm produce, are adequately addressed.

# Field of Study

# The field of study is control, electronic, and information engineering (CEIE)

MAKRO.

# Purpose of Thesis

To design and implement farmer to buyer information system.

# Research Objective

The research objective is divided into two, the general objective which is aimed at designing and implementing farmer to buyer information system, and the specific objectives.

## Specific Objective

* To design and implement a farmer-to-buyer information system to aid farmers in rural areas to have a proper platform to promote their farm products.
* Enhance the link between farmers and end-product users in the urban areas.
* To create an online store where farmers can sell their products online.
* Ease the distribution of farm products across the country.

# Research Questions

* What is the medium of communication between the farmer and buyer?
* How does the E-market work?
* How does the farmer-to-buyer information system ease the distribution of farm products across the country?

# Significance of the thesis

Agriculture is one of Poland’s most important economic sectors, creating direct and indirect employment and job opportunity. Poland produces a variety of crops, fruits, and vegetables.

It is observed that an agricultural commodity change hands three to four times before reaching ultimate consumers. Functions are performed by various market bodies (especially the middlemen in the market chain). It is argued that middlemen exploit marginal farmers and hamper their legitimate share which can be solved with the use of technology to link farmers directly to buyers.

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# Expected Results

* This research will enable farmers to easily distribute their farm produce across the country.
* An E-market where farmers can display and sell their products.
* A dashboard for farmers to keep track of their suppliers and buyers.

# Layout of Thesis

1. General introduction is focused on the research which is the Thesis Proposal.

2: Analysis of Proposed System. In this chapter, the proposed system will be analyzed in detail and its importance discussed expansively where context-level diagrams, dataflow diagrams, and flowcharts will be used to explain the proposed system further.

3: Detailed Design of Proposed System;

This will encompass database modeling, class modeling, use case modeling, and the relationship diagram of the proposed system.

4: Testing and Implementation;