

## **ABSTRACT**

Agriculture is one of the important factors in this life, Indonesia as a country ever to hold the title agrarian country also has some problems in this sector. Problems in the agricultural sector have an impact on the welfare of the farmers due to lower resale price. Usually several factors that affect the selling price One of them is problem Supply Demand in the market. In accordance with the laws of economics that if supply is greater than demand then the price would be cheap, and if the demand is greater than supply, then the price will be expensive. Therefore the stability of supply and demand to be a top priority in controlling the market price. The absence of facilities that can be utilized to determine the condition of farmers planting in other areas and information on the quota market is a major obstacle in the decision-making of farmers.

in this Final Project has created a web mapping application online agricultural area. That is used to monitor the progress in real time About the farm in Pangalengan area based on the type of plants that had been planted by the farmers. It also can provide information to farmers about the abundant supply in the market at harvest time. This information system is made for multiuser, use ArcGIS for mapping, using XAMPP and MySQL as the The database system.

The results of the testing that has been done that the information system is running as properly. And objectively tested against 12 farmers and 25 agriculture department employees as respondents in the test results obtained from each of the following questions 50% said this information interesting interface system, 67% said the information system accordance with user needs easy to understand and easy to pengambaran state canning planting in area districts, 83% claimed to meet the needs of the development of plants and information about the state of the market, 67% stated that this application facilitate user in the determination of the commodities to be planted, and 58% stated that interested in becoming a user of this information system. When this information system accessed 800 simultaneous users the server can not serve user requests well, therefore there will be some users that request was not processed by the server

**Keywords: Agriculture, Xampp, ArcGIS, MySQL, Supply, Demand**