

IoT Based : Agricultural Care System for Farmers

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BACKGROUND

Indonesia is an agricultural country where the majority of the population works as farmers. in 2010 until 2017 the number of farmers in Indonesia has decreased by 1.1% annually. The decreasing number of farmers has an impact on rice imports which are getting higher, and the price of rice has increased every year. in 2018 the increase in rice prices on the market was around 3%.

to help farmers easily monitor and maintain agriculture, creating ideas to develop iot. The farmer easily controls his entire farm remotely using an Android smartphone



RESEARCH PURPOSES

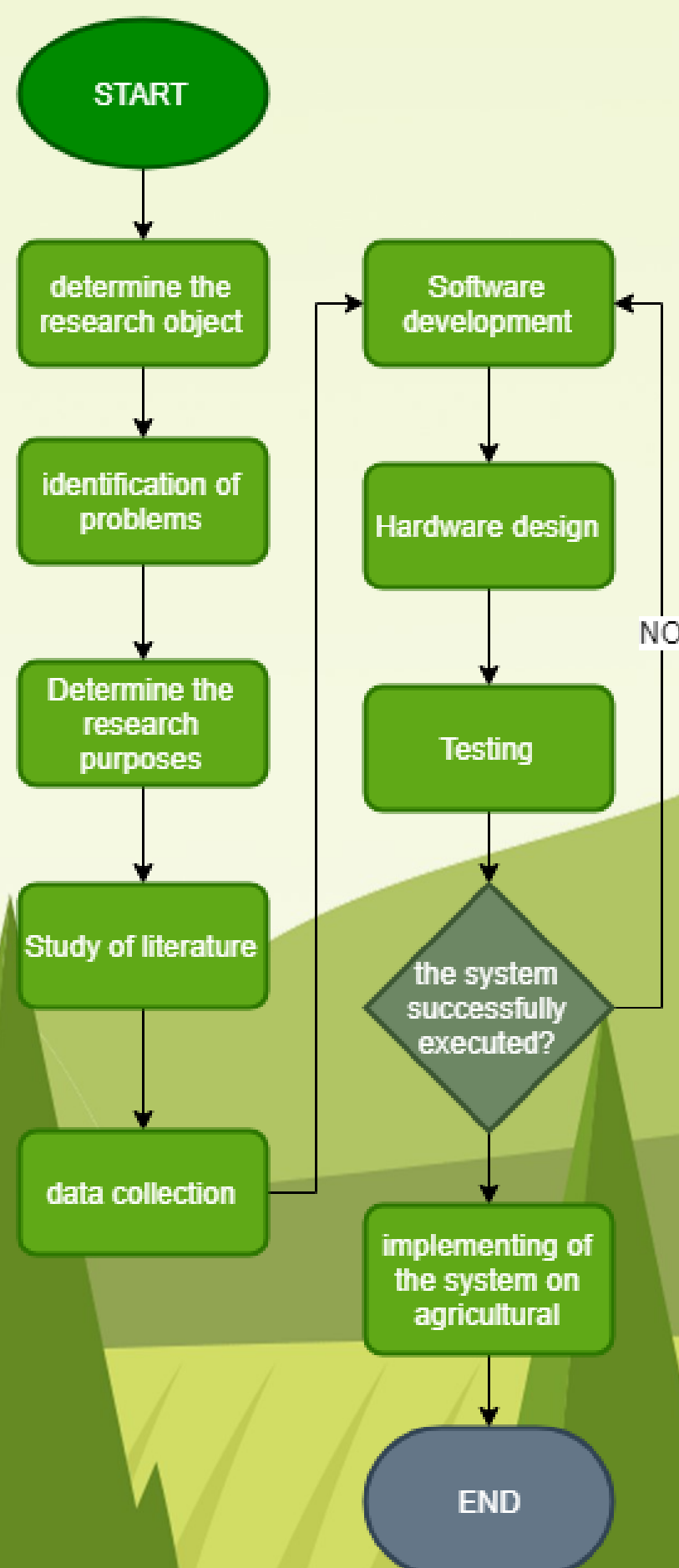
Developing this system to help farmers monitor agriculture, care for agriculture, implement and develop agriculture by utilizing an Android smart phone



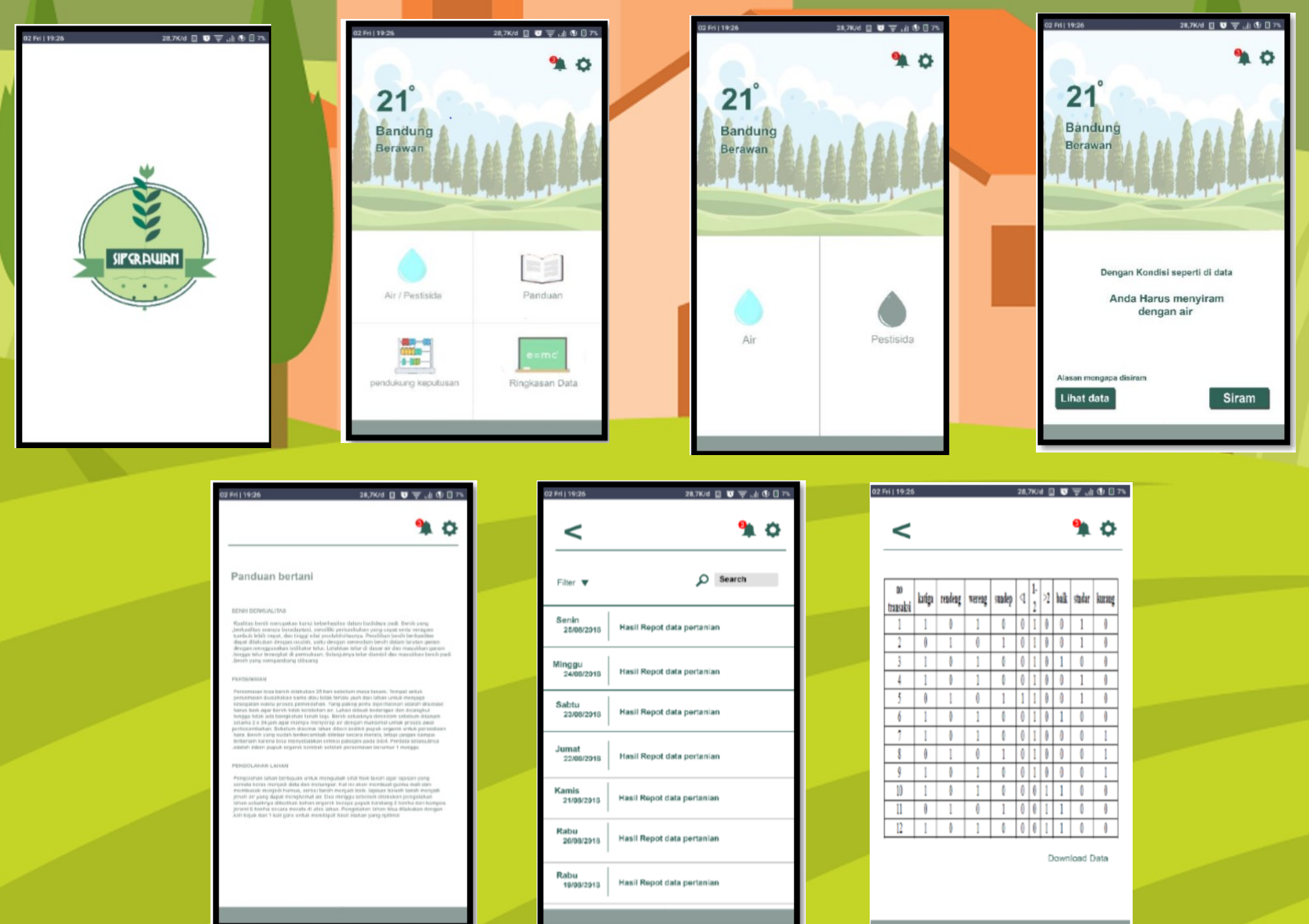
WORK PROCESS



METHODOLOGY



INTERFACE



DEVELOPMENT AND PROGRESS

this system is still under development. the progress that has been achieved at this time is the electric faucet control feature used to water plants in the form of water or pesticides using an android smartphone. another feature is knowing the soil moisture that is integrated with an android smartphone. furthermore, we will develop temperature features in the agricultural area, and plant reports every hour sent to the app.