Farm Management Information System at Lembang Agri Gapoktan







Introduction

Lembang Agri Gapoktan is organisations for farmers in Bandung Barat.

Issue:

- No data collection was done on farmers who joined Gapoktan. So, the farmers with 207 members do not know each other who is a member of Gapoktan.
- No records for procuring raw materials such as seeds, fertilisers, compost, and others that support the planting process.
- Difficulties when making monthly reports on harvest yields.
- In the sales process to consumers, there has not been a proof of handover or memorandum as **proof of transaction**.

Solution:

- Needs collecting data for farmer members in Lembang Agri Gapoktan.
- Needs digital recording media for procuring raw materials.
- Needs feature to generate reports easier.
- Needs of digital handover receipt as proof of transaction.



Methods

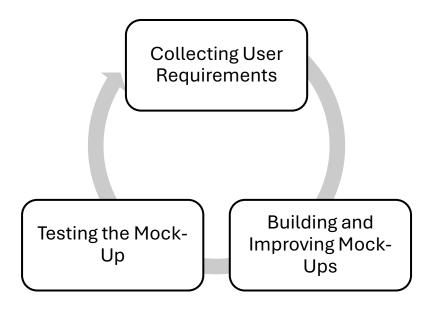


Figure 1. Prototype Method

- 1. Collection Data by **observation** (in Cikidang Village, which has a population of 6,953 people and an area of 1,297.4 hectares) and **interview** (Chairman, Secretary on par with the Treasurer, as well as Saprodi, P4S, Marketing, LKM-A, and partnerships).
- 2. Mock-up the information system starts by designing five components of the information system, namely, **data** and **procedures**, **brainware**, **hardware**, **software**, and **network**.
- 3. Testing the mock-up.



Data and Procedure, Brainware

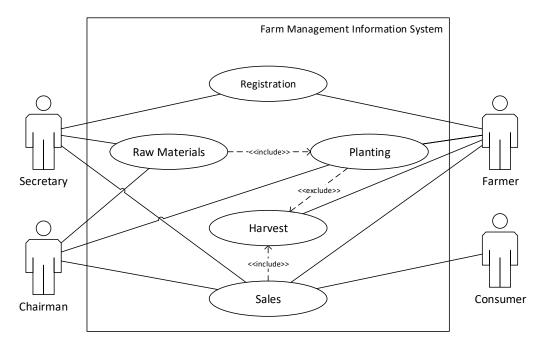


Figure 2. Use Case Diagram of Farm Management Information System

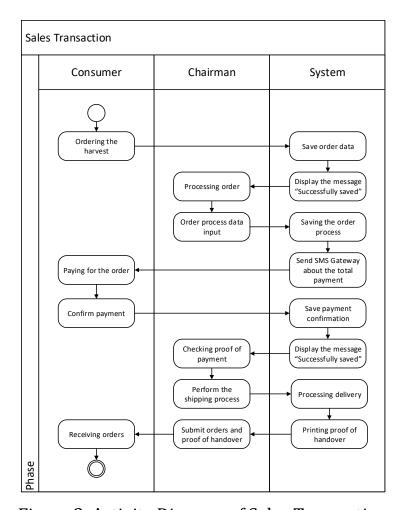


Figure 3. Activity Diagram of Sales Transaction



Hardware, Network

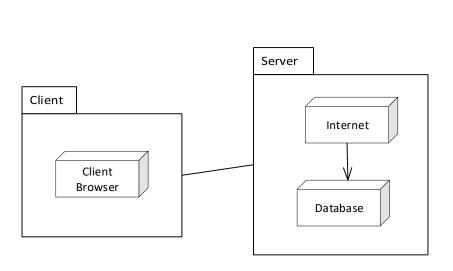


Figure 4. Deployment Notation

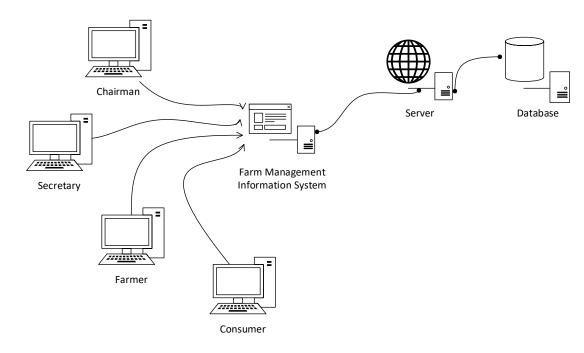


Figure 5. Computer Networks



Software

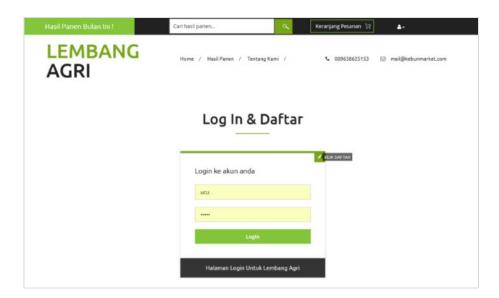


Figure 6. Login Page

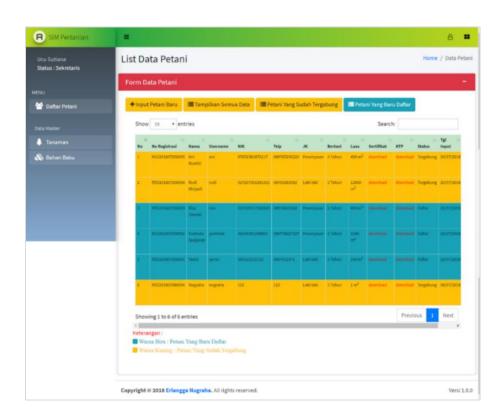


Figure 7. Farmer List Page



Software

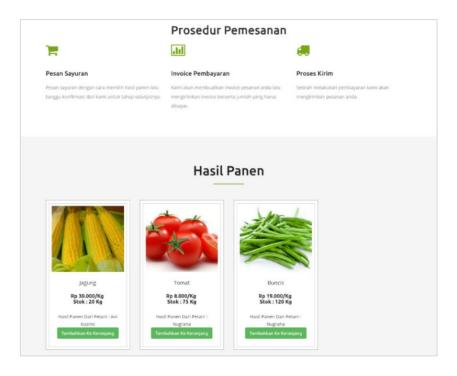


Figure 8. Harvest Data Page



Figure 9. Harvest Report



Software



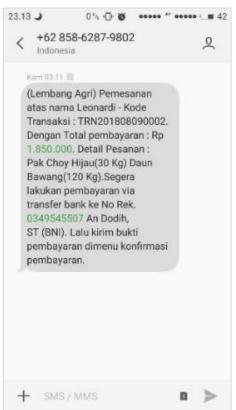


Figure 10. Payment Information to Consumers via SMS and email



Conclusion

The farm management information system at Lembang Agri Gapoktan makes it easier for users to manage data on farmers who are members of Lembang Agri Gapoktan, manage the procurement of raw materials such as seeds, fertilizers, compost, and others that support the planting process, and create reports on the procurement of raw materials, planting, harvests, and sales.



Thank You!

