

Assignment - 01

(100 M)

* Define a problem statement and give a brief executive summary snapshot.

A) Executive summary

B) Project Discription

C) Project Scope

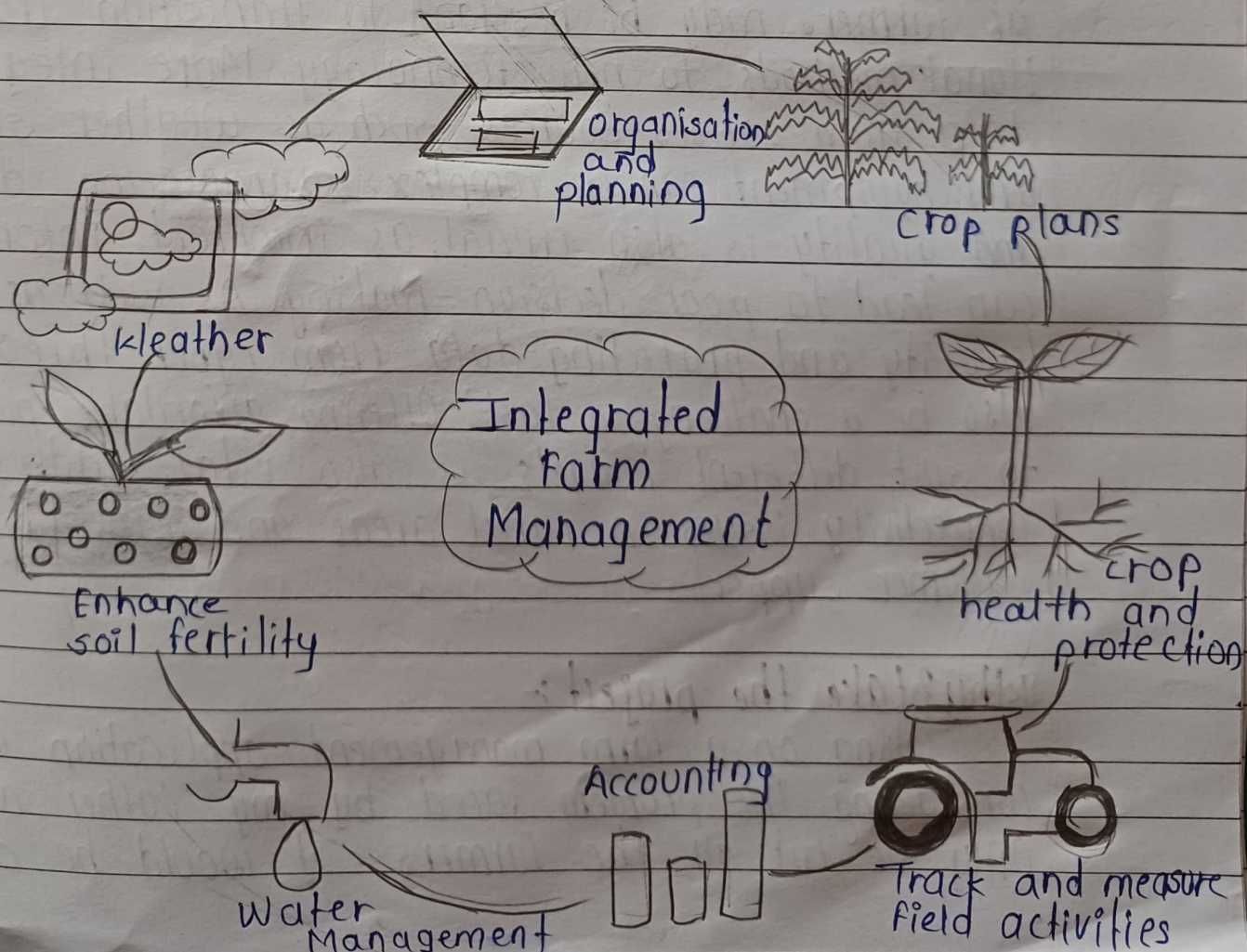
Problem:- As I am a daughter of farmer I see many a times my father struggling for many things in farm like management of water, crops, crop health, pesticides, enhance soil fertility, crop management, weather, financial management, organisation and planning so he faces many problems managing these as he single handedly manages large ares of farm and it becomes so hard for him to manage these so I would make a application of 'farm management' for them so it would not only help my father but many farmers like him who truly works very hard day and night. These application will definitely help them in managing there agricultural yields.

A) Executive summary:-

Analysis:- By using these application farmers will come to know there strengths, weaknesses, opportunities and threats. It will improve efficiency and productivity. Enhanced decision makings and cost savings will take place. These application will highlight the main benefit, challenges faced by them, future trends of farm management application.

Findings:- Farmers need these application as that is easy to use and accesible or available on there phones. They want accurate tracking and reporting of there crops to help them make proper decisions. They also need the application to save their time and money, as well as these features will help them manage there crops. Will provide insights to improve their farm's performance. Finally, farmets heed these application that meets their specific farm type needs, such as organic farming and which provides regular updates and improve-ments in their agriculture.

Proposed process:- Our primary aims to solve the primary issue of "inefficient farm operations" by providing a user friendly farm management application.



B] Project Description:-

Project purpose:- The purpose of this project is to create a farm management application that helps farmers work harder smarter rather than harder. These will make it easy for farmers to keep track of their crops, equipment. Will also help farmers save time and money by reducing waste and improving efficiency. The application will be user-friendly, accessible on mobile devices and will provide valuable insights and reports to help farmers improve their operations.

Challenges:- Developing these farm management application poses several challenges. One of the primary hurdle is as farmers may be hesitant to transition from traditional methods to new technology. More integrating data from various sources, such as weather stations, and equipment can be complex. Guaranteeing data accuracy and quality is also crucial, as incorrect information can lead to poor decision-making. As well as ensuring security and protecting data from cyber threats will also be a challenging task. Offering affordable pricing plans to suit different budgets is also vital. Addressing connectivity issues in rural areas and providing reliable customer support.

Why? take the project:-

Taking on a farm management application was taking considering the problem faced by my father and not only he but all the farmers. It would be a great

opportunity to make a positive impact on agricultural industry. By developing these innovative application we surely can help farmers streamline their operations. Furthermore, developing these type of application can be a unique chance to combine technology and agriculture.

c) Project Scope:-

Specific goals:- To develop a user-friendly application. The ultimate goal is to create a comprehensive farm management solution that simplifies farming operations, enhances sustainability and supports farmers.

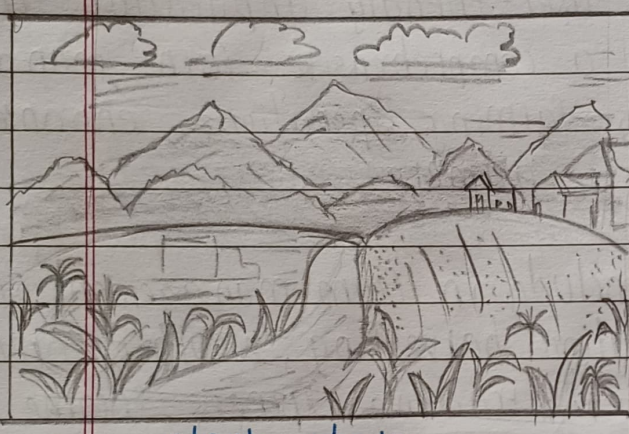
Tasks:- The tasks would include in 'farm management' include crop management as irrigation, harvesting, Weather forecasting, financial management as tracking expenses, income and profitability, creating and managing user accounts and permissions, Data Integration as importing and exporting data from various sources and Mobile accessibility).

Deliverables:- The deliverables would include -

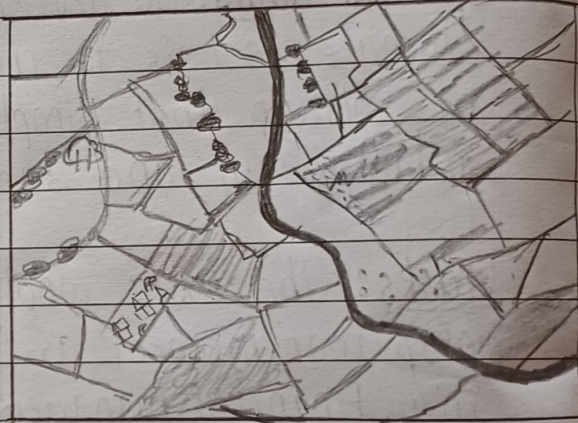
- A comprehensive dashboard for real-time monitoring and insights.

- Data import and export capabilities for seamless integration with existing systems.
- Ongoing application updates and technical support for optimal performance.
- Secure data storage and backup systems for protecting sensitive information.
- A user-friendly web.

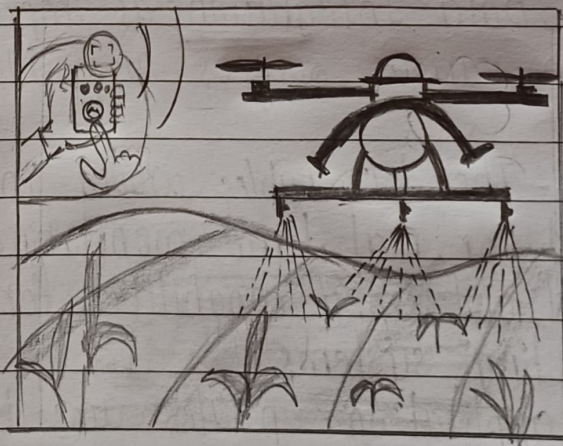
Costs:- Approximately can't tell the amount but it may be in thousands which would include Hardware cost, maintainance cost, etc. depending on the scope and complexity of the project. I would keep subscription fees which is rs 29 per month which every small and big farmer can pay for a month for it would include various images like drone-captured, satellite imagery, stock photos, custom photos.



stock photo



satellite imagery



Drone-captured image

Deadlines:-

- Requirements and gatherings :- 1-2 weeks
- Design and prototyping :- 2-3 weeks
- Development and testing :- 5-6 weeks
- Implementation and training :- 4-5 weeks
- Launching :- 1-2 weeks

Overall project timeline will be approximately
10 to 20 weeks