

Software Engineering 2

Project Presentation

RASD&DD

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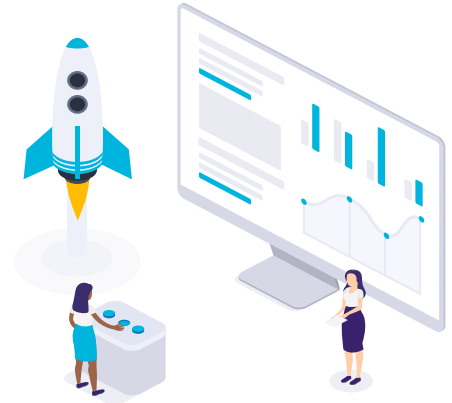
DREAM

Data-dRiven
prEdictive fArMing
in Telangana



1

Requirements and Specifications



Farmers

- Insertion of Reports
- Creation of Help Requests
- Forum Discussions
- ...



Policy Makers

- Handling of Help Requests
- Performance evaluation
- Rewarding
- ...

Goals

1. Allow Telangana's PM to **monitor local agriculture**
2. Allow farmers to **receive assistance/rewards** based on their performance
3. Allow farmers to request and **receive help**
4. Create farmers' network to promote **collaboration and mutual aid**
5. Improve farmers' **performance and productivity**



Requirements

- ▶ Allow farmers to fill **reports** with data about **goods productions**
- ▶ Allow farmers to create and contribute to **forum discussions**
- ▶ Allow farmers to **create help requests**
- ▶ Allow PMs to monitor **farmers' performances**
- ▶ Allow PMs to **handle** farmers' **help requests**
- ▶ ...



Assumptions



Correctness

Farmers always insert correct data in the system, sensor data is correct.

Consistency

Farmers participating the program actively use the platform.



Fairness

Policy makers' decisions are solely data-driven and are not affected by personal opinions



Use cases



Farmer registration

The farmer receives and accepts the invite



Farmer data is inserted into the system



The farmer receives his login credentials

Use cases



Rewarding of good-performing farmers

The trimester has ended



The policy maker visualizes the list of the top ten performing farmers of the trimester



The farmer is rewarded and an interview is scheduled

Use cases



Creation and handling of a help request

The farmer compiles the help request form



The policy maker takes the necessary actions



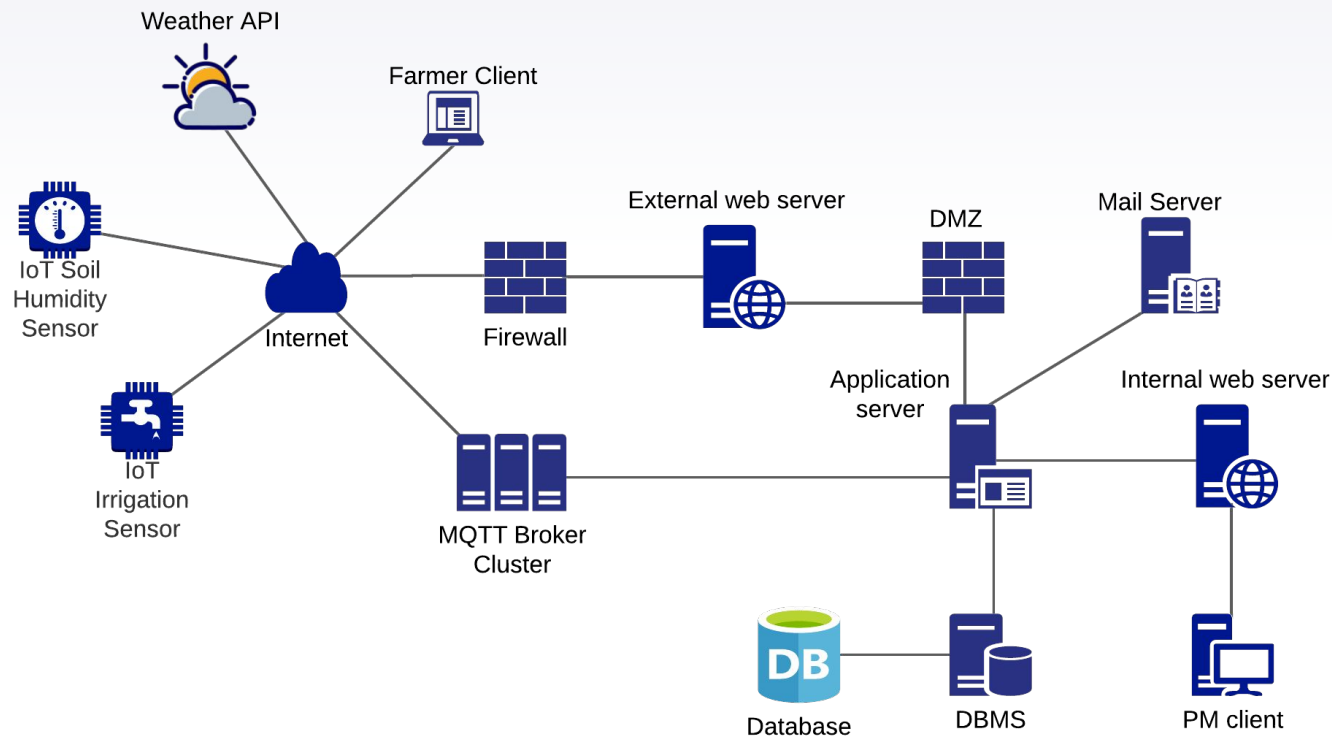
The help request status becomes closed

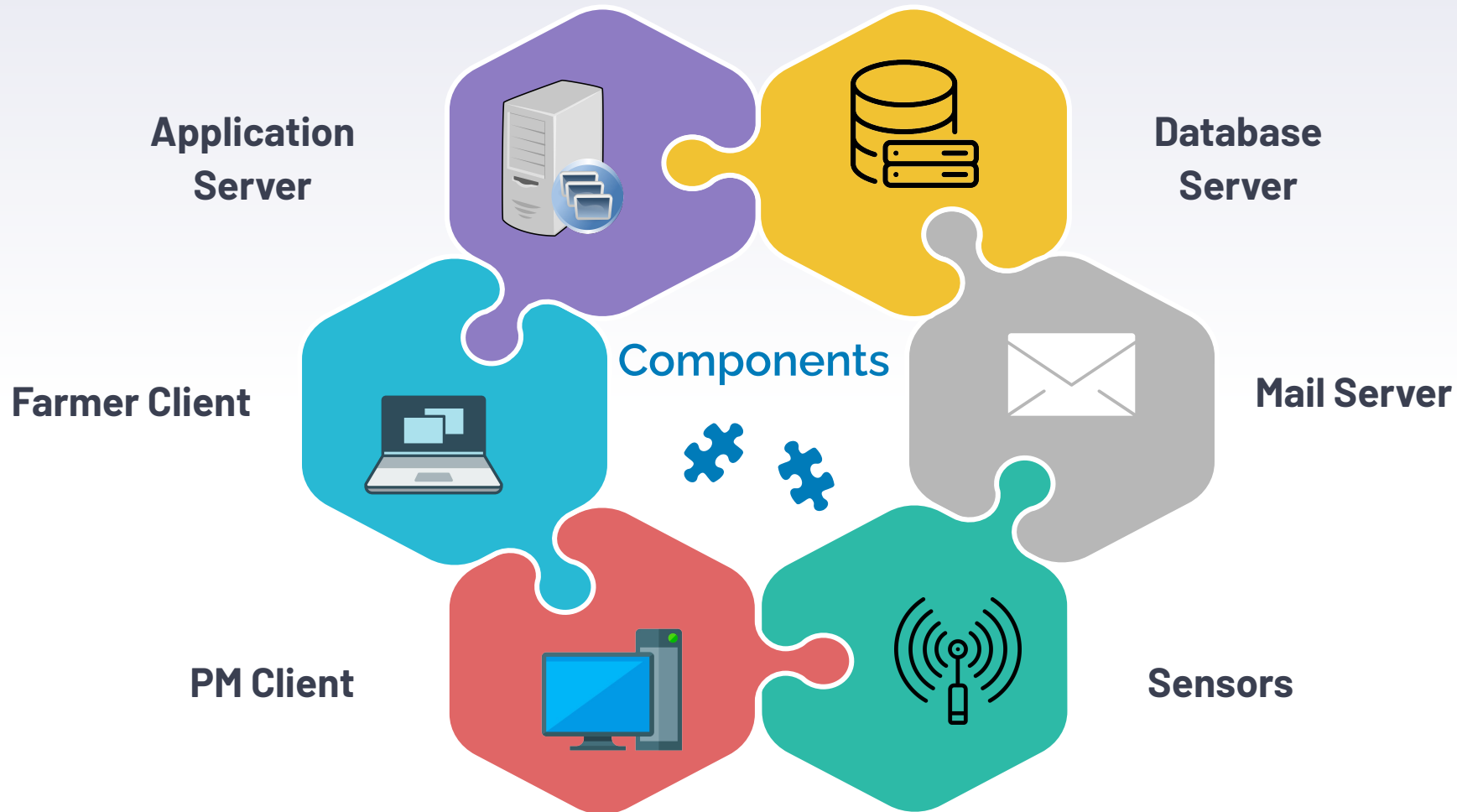
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Design

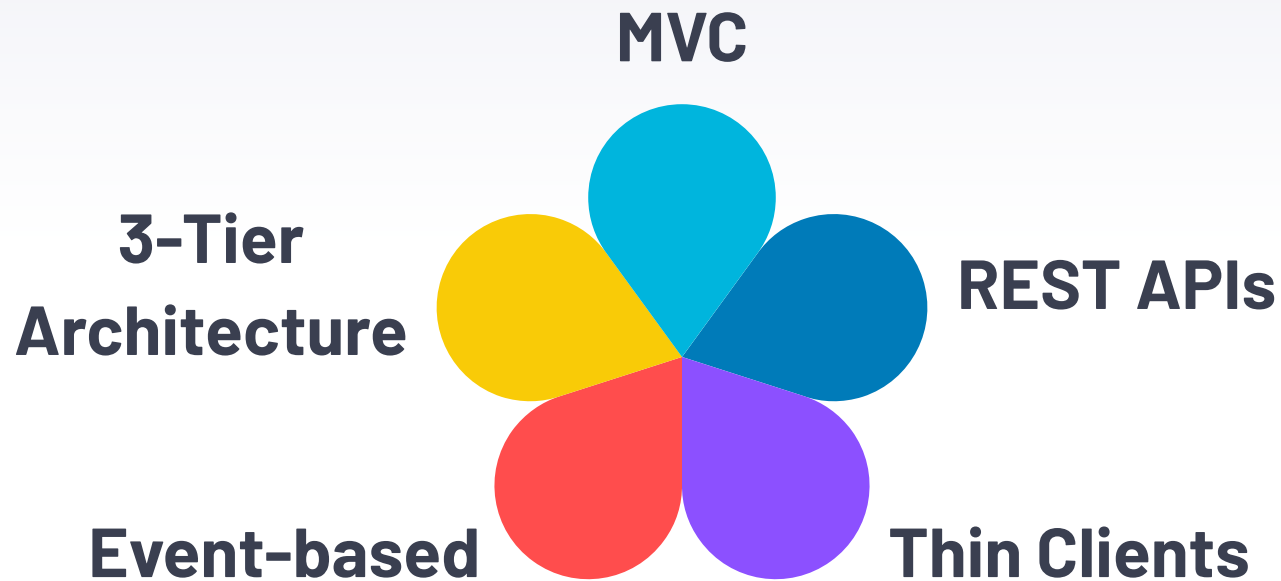


Overview



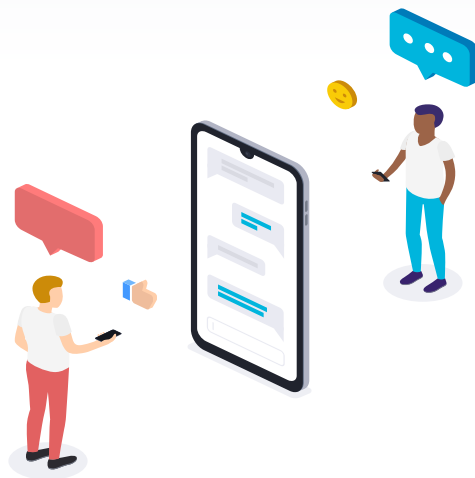


► Architecture



Interactions

Forum discussions

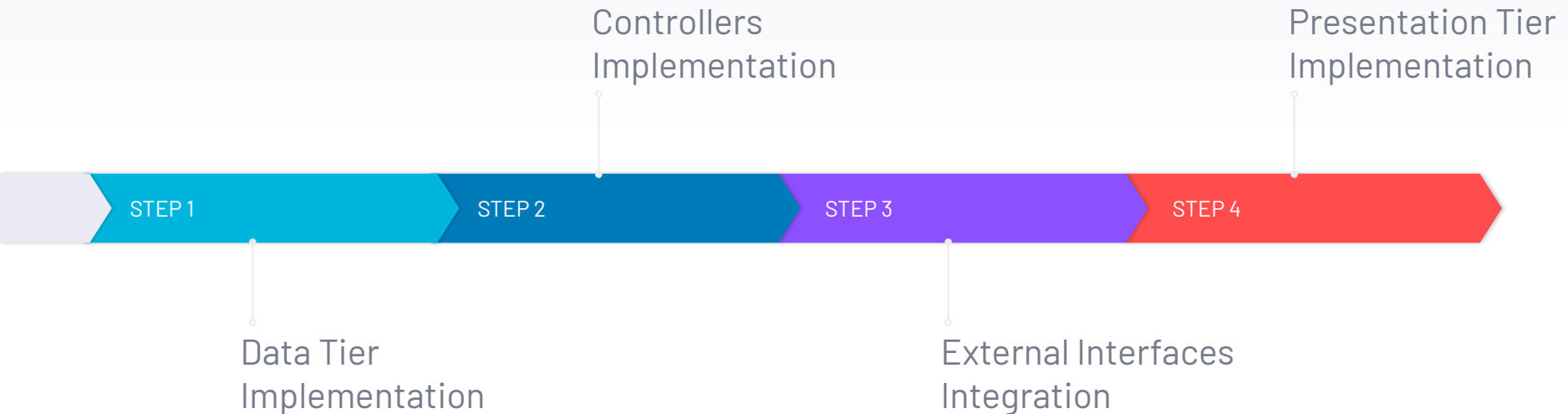


Interactions

Creation of reports



Implementation Plan



THANKS!

- ▶ Mauro Famà
- ▶ Giacomo Lombardo

