

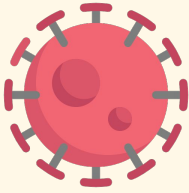
DREAM

Software Engineering 2

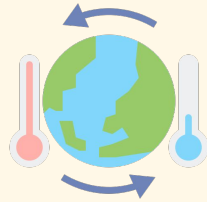
Buttiglione Marco Domenico,
Caffagnini Martina,
Faouzi Dounia



Data-driven Predictive Farming in Telangana



Covid-19



Climate Change



Resource scarcity



ACTORS



FARMER



Production



Help Request



Topic



AGRONOMIST



Meeting



Monitoring



Knowledge



POLICY MAKER



Incentive



Ranking

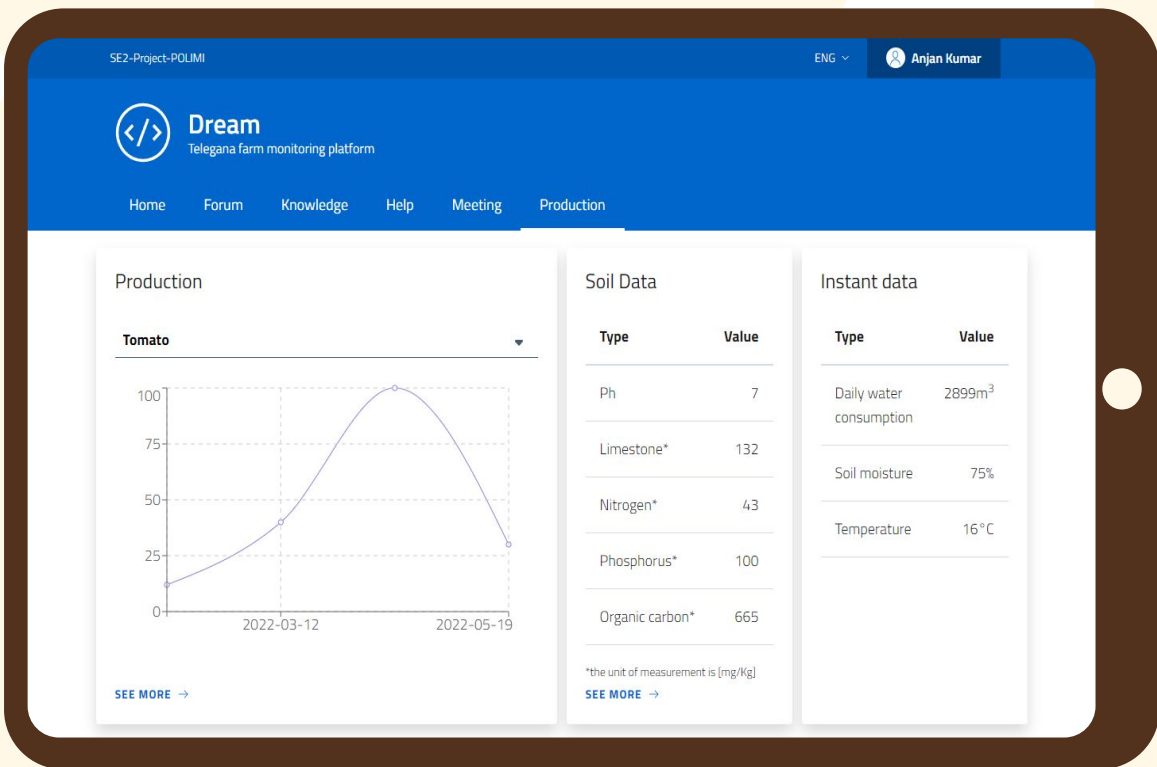


FARMER

Production

Help Request

Topic





FARMER

Production

Help Request

Topic

The screenshot displays the 'Dream' Telegana farm monitoring platform. The top navigation bar includes links for Home, Forum, Knowledge, Help, Meeting, and Production. The main content area is titled 'Help Requests' and features a modal form for creating a new help request. The form has a title bar 'CREATE A NEW HELP REQUEST' with a close button (X). The form fields are as follows:

- Subject:** Impaired irrigation system
- Body:** Due to a blackout, the irrigation system has shut down and stopped working, what do I do?

At the bottom of the modal, there are 'Close' and 'OK' buttons. The background of the platform shows a list of help requests, including one from 'Kumar' dated '2022-02-12' with the subject 'The f' and 'The flo'. At the bottom of the page, there is a 'Leave a feedback' link and a '+ CREATE A NEW HELP REQUEST' button.

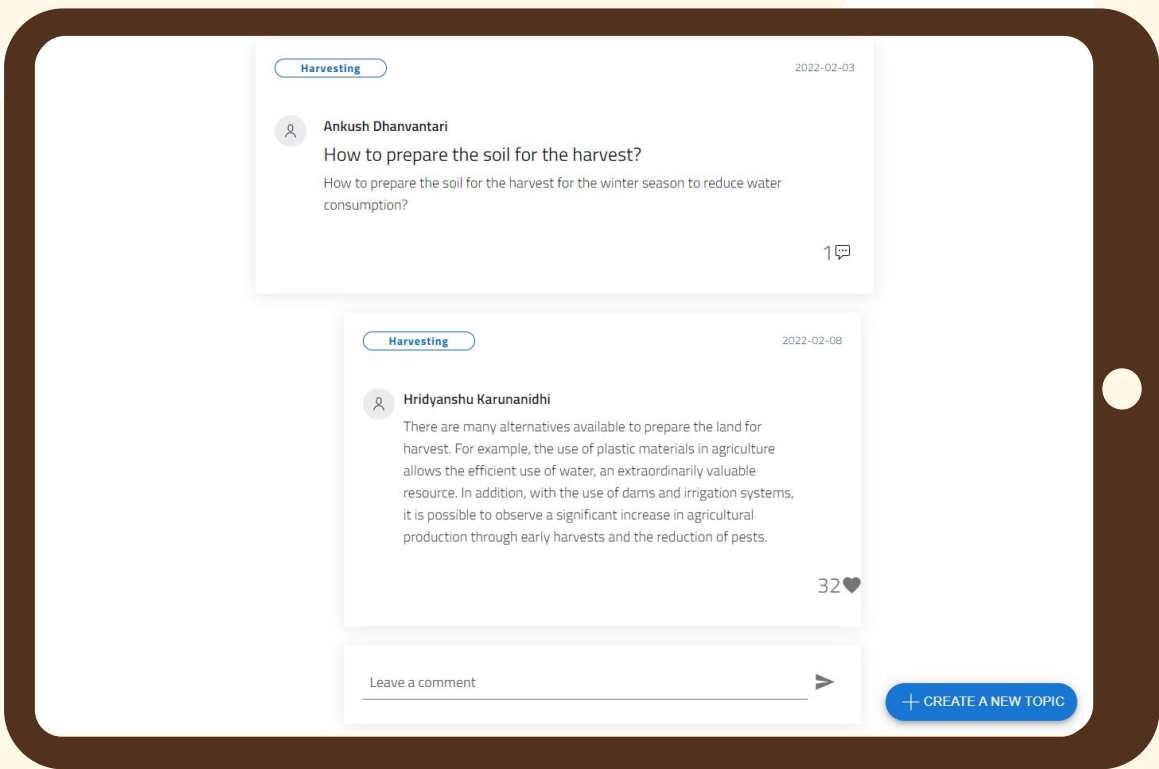


FARMER

Production

Help Request

Topic





AGRONOMIST

Meeting

Knowledge

Monitoring

SE2-Project-POLIMI ENG krdeaa rgdeeq

Dream
Telugana farm monitoring platform

Home Knowledge Help requests Meeting Farmers

Next meetings Concluded

February 2022 today < >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13 ● 11a Ekanga Iresh	14	15 ● 10a Kumar Mitesh ● 6:19p Kapindra Anjan	16	17 ● 10a Kumar Anjan	18 ● 12p Lalitesh Anjan	19
20 ● 5:38p Kumar Anjan	21	22	23	24	25	26

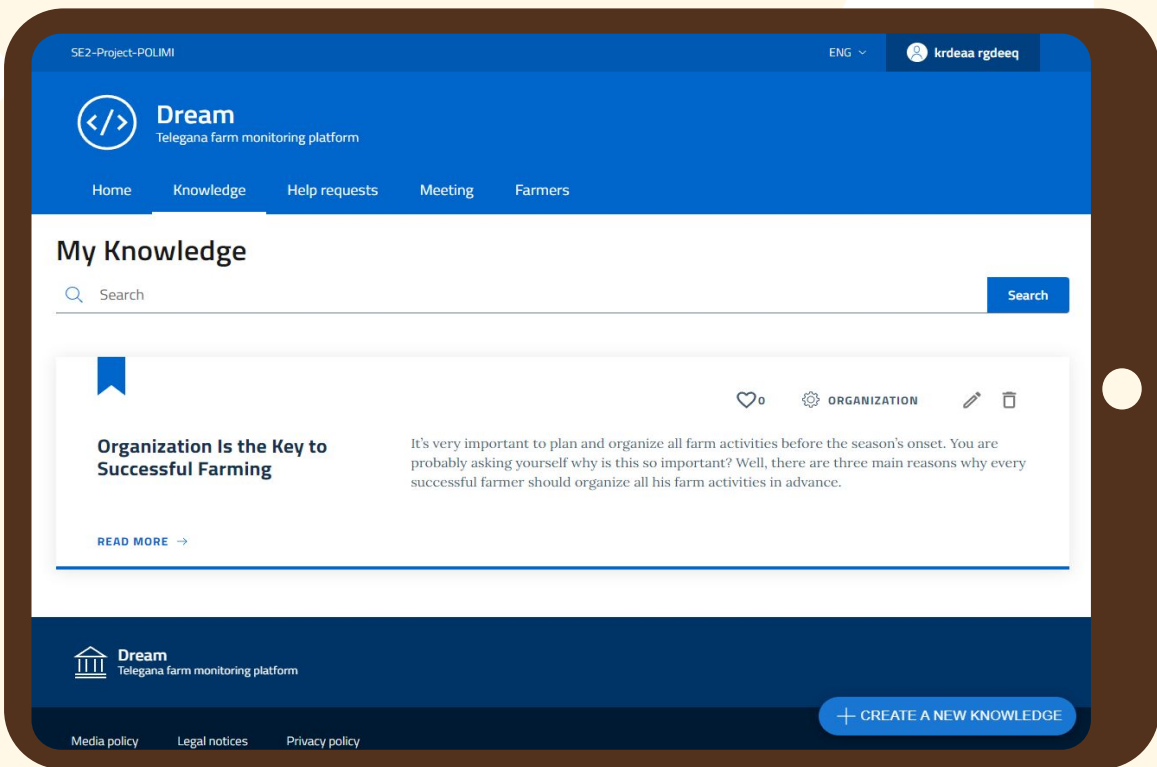


AGRONOMIST

Meeting

Knowledge

Monitoring





AGRONOMIST

Meeting

Knowledge

Monitoring

SE2-Project-PQUMI ENG krdeaa rgdeep

KUMAR ANJAN

Aadhaar 3213347786765

E-mail anjan@gmail.com

Telephone 332213412

Farm address Rayaraopet--Bogaram Rd, Bogaram, Telangana 501301, India

Square Kilometer 7 km²

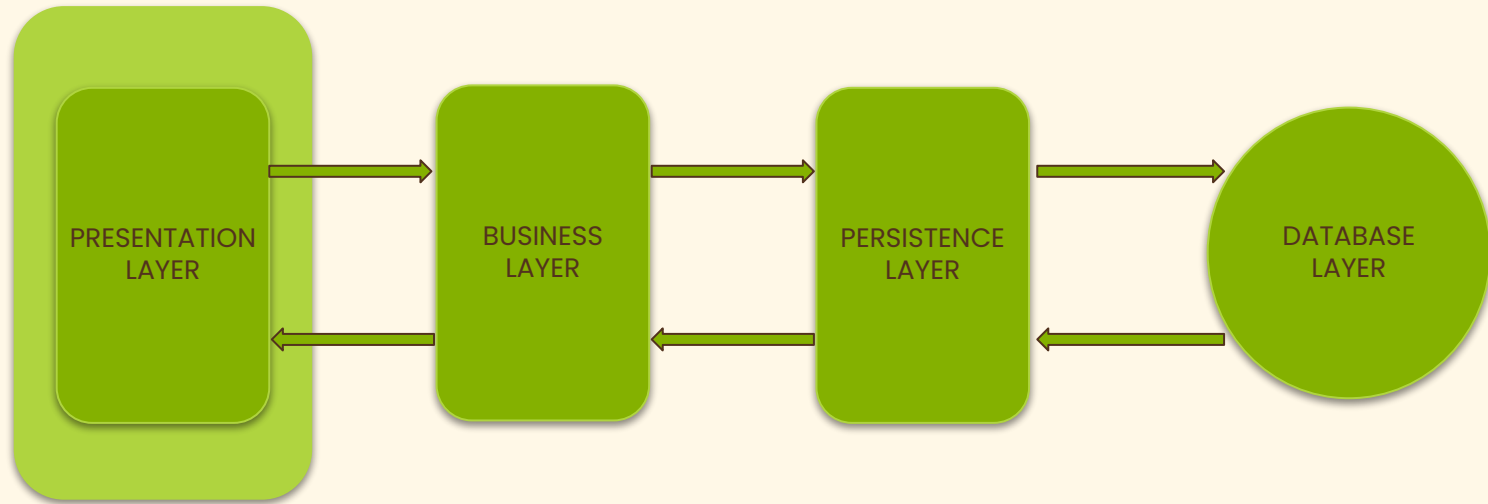
Production **Soil Data**

Product

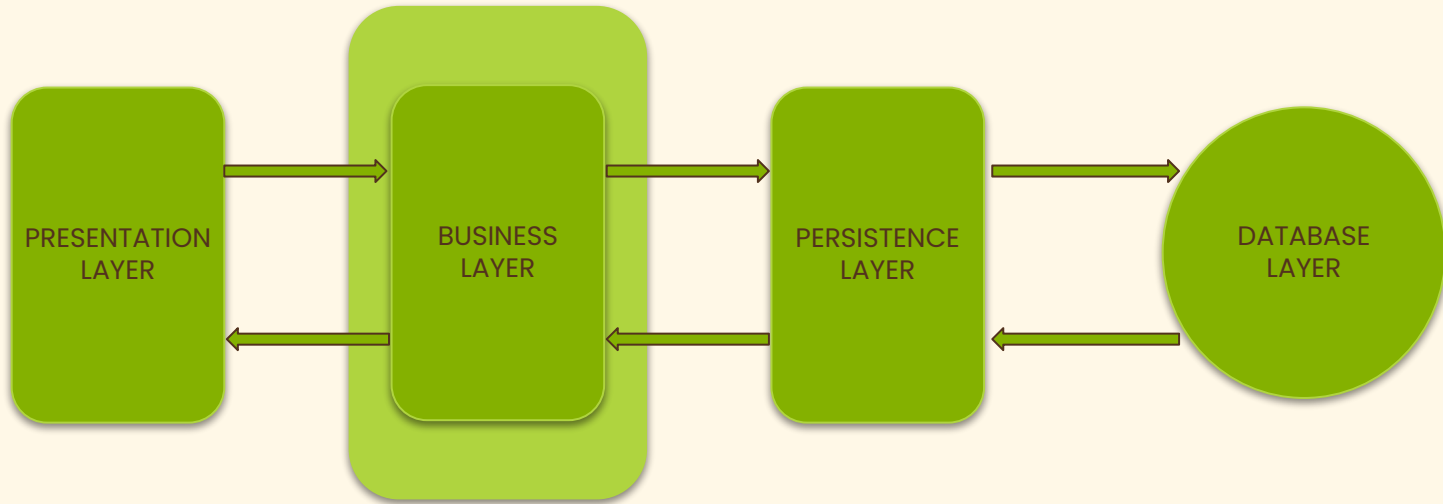
Tomato

Date	Q.ta	Note
2021-06-12	30 Kg	Everything OK
2021-02-09	100 Kg	Great harvest
2021-01-19	40 Kg	I'm getting better
2019-02-05	12 Kg	First harvest

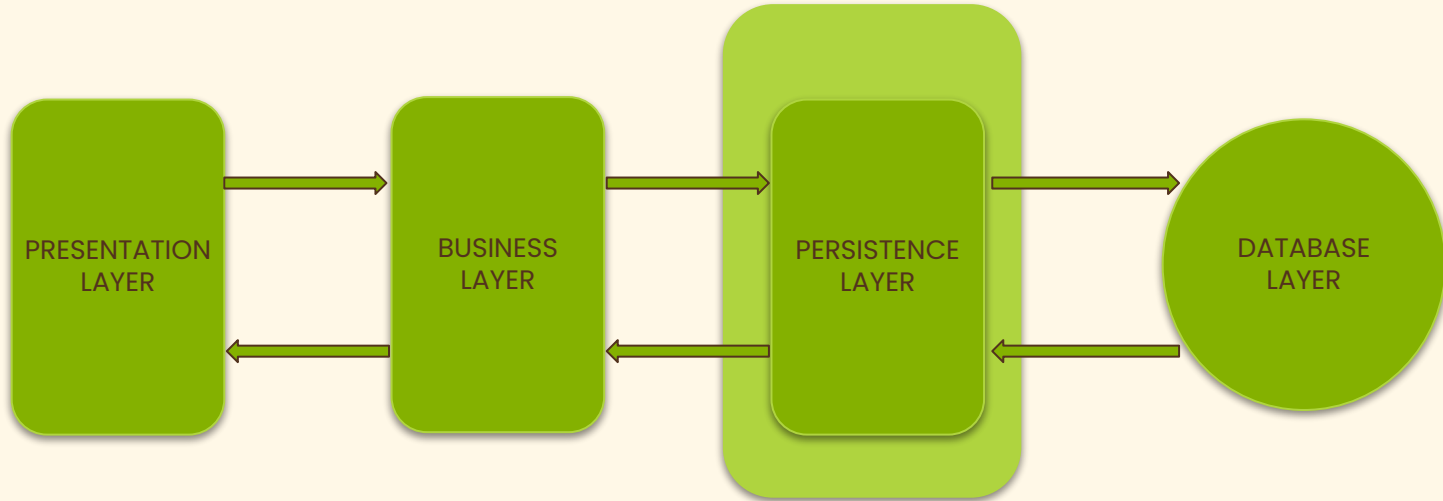
ARCHITECTURE



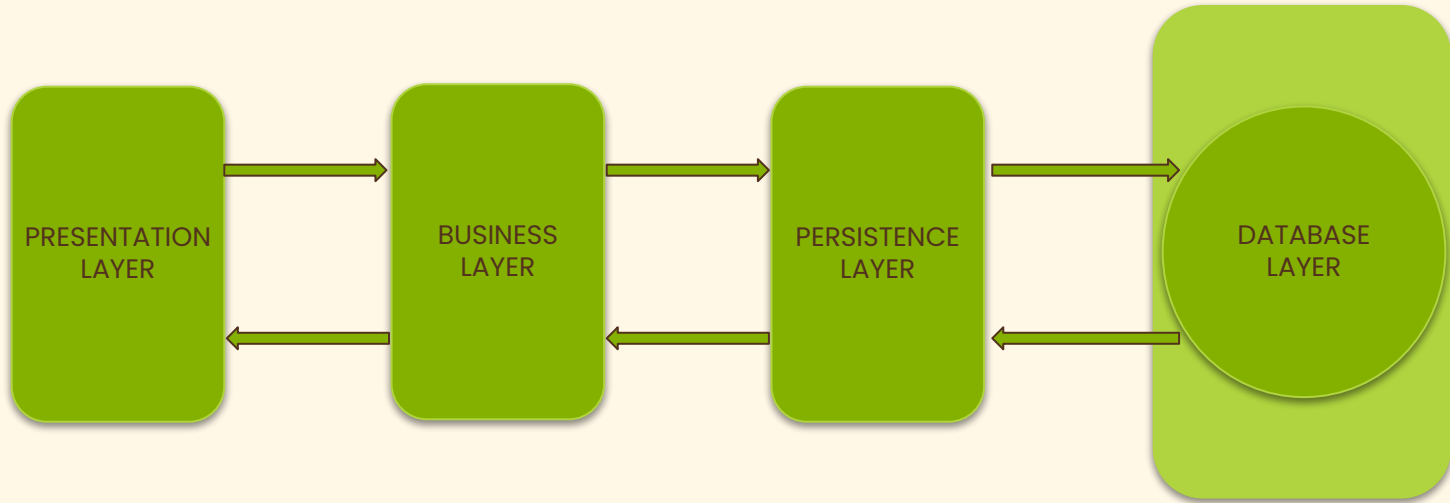
ARCHITECTURE



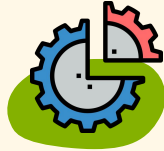
ARCHITECTURE



ARCHITECTURE



STRENGTHS



Logical and
Physical
separation



Reduced
development
time



Reliability

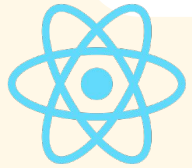


Scalability



Security

Technologies used



React

ReactJS

A JavaScript
library for building
user interfaces



Spring

Framework for
developing
applications on
the Java platform



JPA and
Hibernate

Data persistence
manager of a
relational DBMS



MySQL

Relational database
management
system



INTEGRATION AND TEST



Implementation through a thread type strategy



Many portions (threads) of different modules work together to provide functionalities



One thread at a time is integrated until the end

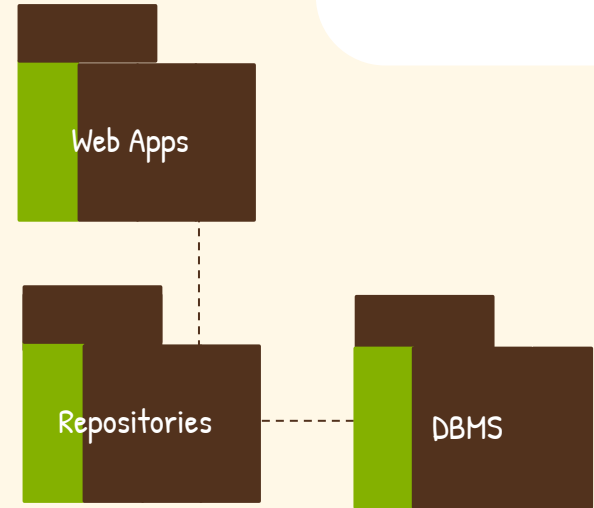
INTEGRATION AND TEST

1st PHASE

2nd PHASE

3rd PHASE

4th PHASE



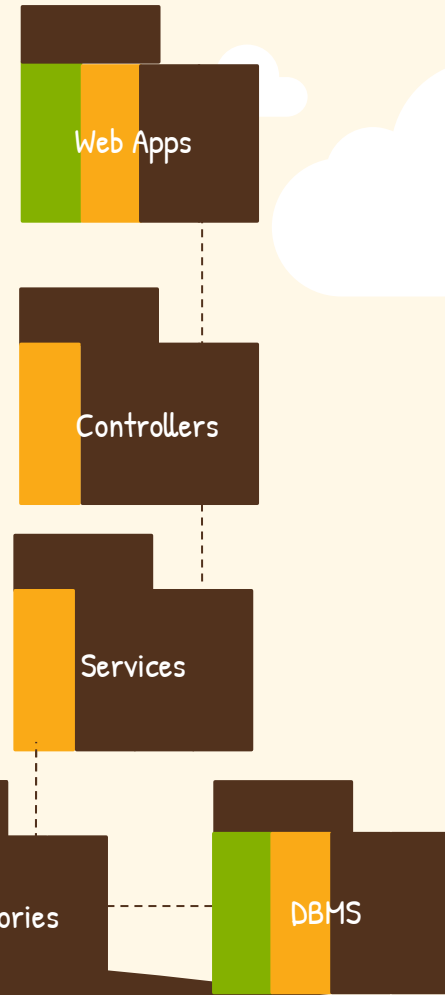
INTEGRATION AND TEST

 1st PHASE

 2nd PHASE


 3rd PHASE

 4th PHASE



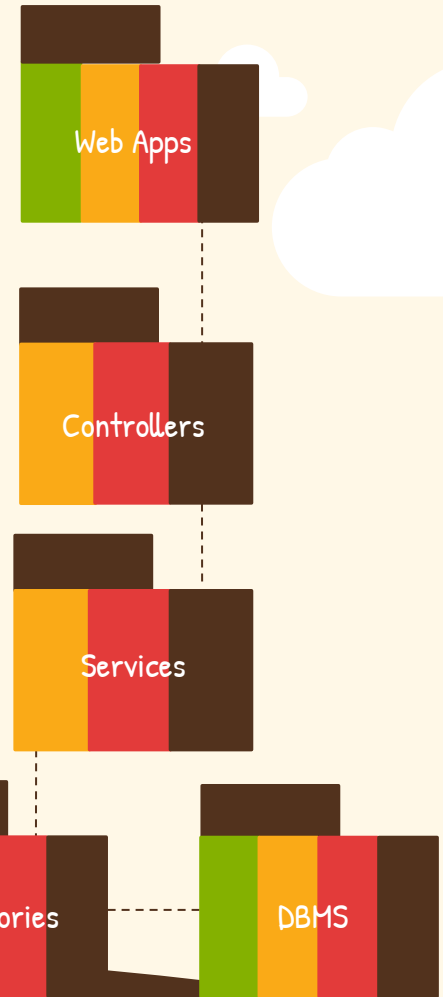
INTEGRATION AND TEST

 1st PHASE

 2nd PHASE

 3rd PHASE

 4th PHASE



INTEGRATION AND TEST



1st PHASE

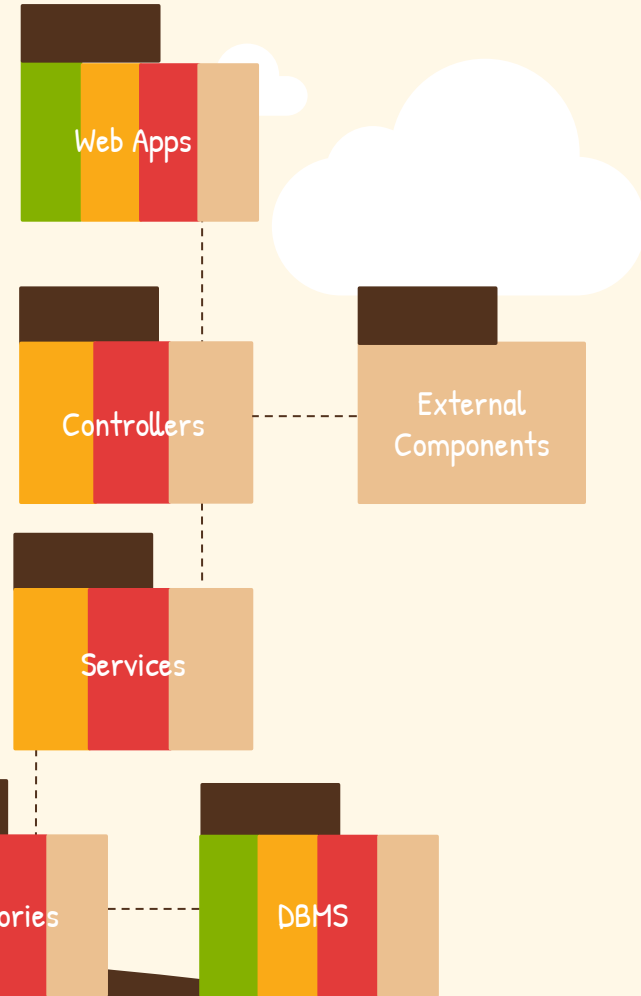


2nd PHASE



3rd PHASE

4th PHASE



TEST

1 INTEGRATION TEST

Testing of each component once it gets integrated

2 FUNCTIONALITY TEST

Testing the whole system.

3 PERFORMANCE TEST

Evaluate the most frequent requests in terms of time





THANK YOU

Do you have any questions?

