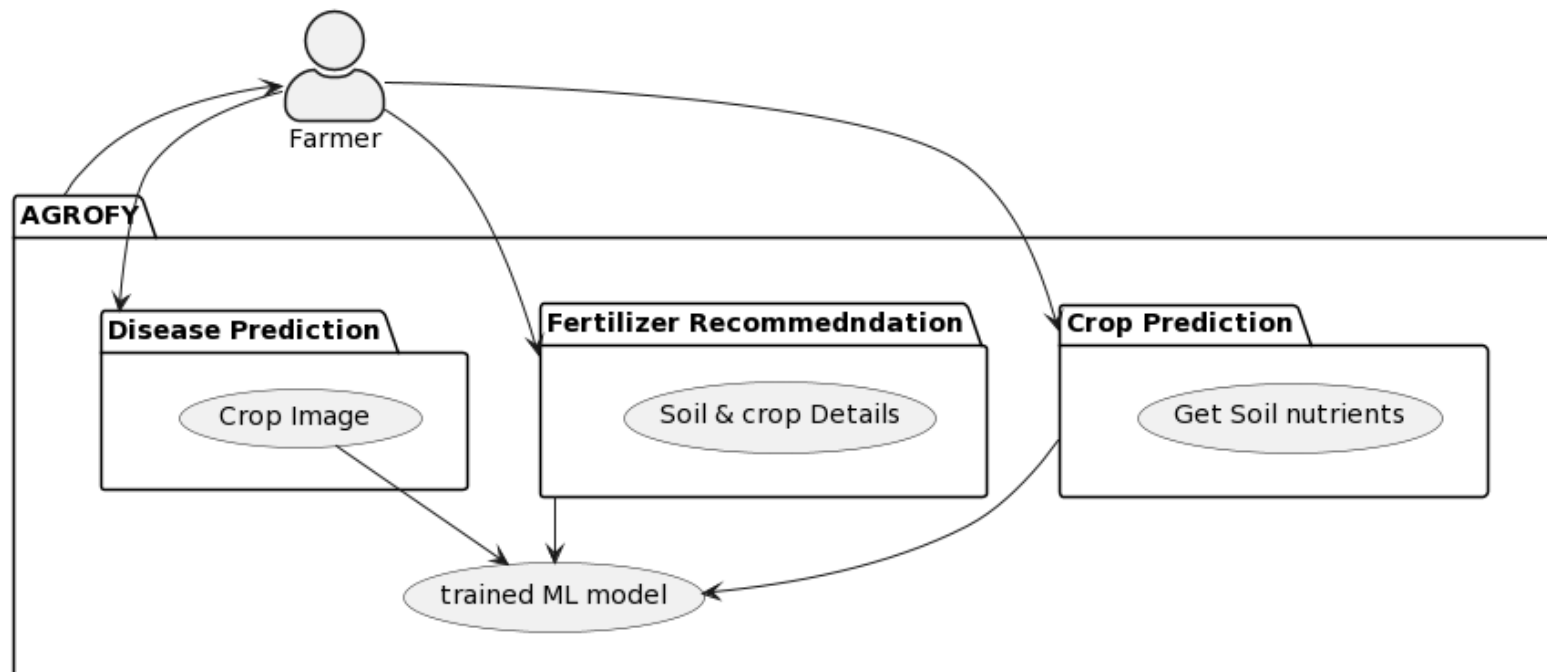


Use Cases & Test Cases

Date	07 December 2022
Team ID	PNT2022TMID26182
Project Name	Fertilizer Recommendation System for Disease Prediction

Use case Diagram

AGROFY - Usecase Diagram



Use case Text

```
@startuml
title AGROFY - Usecase Diagram
skinparam actorStyle awesome
actor "Farmer" as f
package AGROFY as a{
    package "Crop Prediction" as cp{
        usecase "Get Soil nutrients"
    }
    package "Fertilizer Recommedndation" as fr{
        usecase "Soil & crop Details"
    }
    package "Disease Prediction" as dp{
        usecase "Crop Image" as ci
    }
    usecase "trained ML model" as ml
}
f-->cp
f-->fr
f-->dp
cp-->ml
fr-->ml
ci-->ml
a--->f
@enduml
```

TEST CASES

A test case is a specification of the inputs, execution conditions, testing procedure, and expected results that define a single test to be executed to achieve a specific software testing objective, such as exercising a specific programme path or verifying compliance with a specific requirement, in software engineering. Test cases underpin deliberate rather than chaotic testing. To get the appropriate coverage of the programme being tested, a battery of test cases can be created. Formally stated test cases enable the same tests to be performed against consecutive versions of software, enabling effective and consistent regression testing.

FORMAL TEST CASES

To completely verify that all of an application's criteria are satisfied, there must be at least two test cases for each requirement: one positive test and one negative test. If a requirement is broken down into sub-requirements, each one must contain at least two test cases. A traceability matrix is widely used to keep track of the relationship between the requirement and the test. Written test cases should include a description of the functionality to be tested as well as the preparation needed to ensure that the test can be run.

INFORMAL TESTING CASES

Test cases for applications or systems that lack formal requirements might be built based on the acknowledged typical behaviour of program of a comparable class. In some testing schools, test cases are not written at all, but the activities and results are given after the exams are completed.

Hypothetical tales are used in scenario testing to assist the tester in thinking through a complicated problem or system. Typically, these circumstances are not documented in any depth.

TEST CASES

TestcaseID	FeatureType	Component	TestScenario	Pre-Requisite	StepsToExecute	TestData	ExpectedResult	ActualResult	Status	Comments	TCforAutomation(Y/N)	BUGID	ExecutedBy
HomePage_TC_OO1	Functional	HomePage	Verifyuserisabletosee the homepageornot.		1. EnterURLandclick go 2. verify whethertheuserisabletosee thehomepage.	EnterURLandclick go	Userabletosee thehomepage	Workingas expected	Pass	Nil	N	—	Santhosh M
HomePage_TC_OO2	UI	HomePage	VerifytheUlelements inHomePage		1. EnterURLandclick go 2. VerifytheUlelements inHomePage.	EnterURLandclick go	ApplicationshouldshowbelowUlelements:HomeTab&PredictTab	Workingas expected	pass	Nil	N	—	Navaneethakrishnan S
PredictPage_TC_OO3	Functional	Predictpage	Verifyuserisableto directtopredict pageornot.		1. EnterURLandclickgo 2. ClickonPredictbutton 3. Verifywhethertheusertoredirecttopredictpageornot.	Clickthepredictbutton inhomepage	UsershouldnavigatetoPredictpage	Workingas expected	pass	Nil	N	—	Iswarya M
PredictPage_TC_OO4	UI	Predictpage	VerifytheUlelements inPredictPage		1. EnterURLandclick go 2. VerifytheUlelements inPredictPage.	Clickthepredictbutton andredirect topredictpage	ApplicationshouldshowbelowUlelements:DropDownList,UploadfileButton,Predictbutton.	Workingas expected	pass	Nil	N	—	Sabarivasan E
PredictPage_TC_OO5	Functional	Predictpage	Verifyuserisableto selectthedropdownvalueornot.		1. EnterURLandclickgo 2. ClickonPredictbutton 3. Verifywhethertheusertoredirecttopredictpageornot. 4. Verify userisableto selectthedropdownvalueornot.	FruitorVegetable	Applicationshouldshowusertochoosefruitorvegetableoptionindropdown list.	Workingas expected	pass	Nil	N	—	Iswarya M
PredictPage_TC_OO6	Functional	Predictpage	Verifyuserisableto uploadtheimageornot.		1. EnterURLandclickgo 2. ClickonPredictbutton 3. Verifywhethertheusertoredirecttopredictpageornot. 4. Verify userisableto selectthedropdownvalueornot. 5. Verify userisableto uploadtheimagesornot	ImagestobeUploaded	Applicationshouldshowtheupload image.	Workingas expected	pass	Nil	N	—	Sabarivasan E

PredictPage_TC_O07	Functional	Predictpage	Verify whether the image is predicted correctly or not		<ol style="list-style-type: none">1. Enter URL and click go2. Click on Predict button3. Verify whether the user is redirected to the predict page or not. Verify if the user is able to select the dropdown value or not.4. Verify if the user is able to upload the image or not5. Verify whether the image is predicted correctly or not	Click the Predict Button	Application shows the predicted output	Working as expected	pass	Nil	N	—	Navaneethakrishnan S
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