

SOFTWARE ENGINEERING

Farmer Subsidy System

Use Case Description

GROUP 3.8

TEAM DETAILS

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1. Sign Up

Identifier	SU
Use Case Name	Sign Up
Actor/s	Farmer
Pre-Condition	The user selects sign-up.
Description	The user registers on the website by providing his details like name, mobile number, state, district, village, category of farmer, gender, qualification, land holding and sector and sets a password for his account.
Basic Flow	<ol style="list-style-type: none">1. The user selects Sign Up from menu.2. The registration form is displayed.3. The user enters name, mobile number, district, village, category of farmer, gender, qualification, land holding and password.4. The user clicks submit.[A1][A2]5. The details are submitted.6. The sign up process completes.7. The user gets logged into the system.
Post-Condition	Signed up successfully.
Alternate Flow	[A1].System displays the form again with appropriate message to correct invalid information.And, the user has to re-enter the information of those fields. [A2].If the user fails to enter any of the mandatory details, the form is displayed again and the user has to fill details of that field as well as the password again needs to be entered.
Exception	<ol style="list-style-type: none">1. There may be a server error and the sign up may not be successful2. The user selects the cancel option. The system returns the user to the home page without the user being logged in and any information entered has been erased.

2. Log In

Identifier	LI
Use case Name	Log In

Actor	Farmer , Government Employee
Pre-Condition	The user must have signed up before.
Description	The user logs in by providing his credentials like mobile number and password .
Basic Flow	<ol style="list-style-type: none"> 1. The user selects Sign In from menu. 2. The System prompts the user for a mobile no. and password. 3. The user enters his/her mobile no. and password. 4. The user clicks on Log in. 5. The system validates the entered mobile no. and password, making sure that the entered mobile no. is a valid mobile no. in the System and that the required password is entered for the entered mobile no.[A1] 6. The user is signed in and returned to the home page as a Logged In User.
Post-Condition	The user gets access to his profile and other functionalities available to him depending on who the actor is.
Alternate Flow	[A1]. The User may have entered incorrect details. The system shows the sign in page again with a message to input the correct login credentials.
Exception	<ol style="list-style-type: none"> 1. There may be a server error and the user may not log in successfully. 2. The User clicks Cancel instead of Login. In that case he is taken to the homepage again and all the details entered by him are removed.

3. Documents management

Identifier	DM
Use case Name	Documents management
Actor	Farmer, Government employee, Farmer Database
Pre-Condition	The user must have logged in.
Description	The farmer uploads documents like aadhar card, land certificate and receipt if necessary. Some of the documents undergo verification procedure which is done by the government employee. Also, for the subsidies which have been sanctioned, the necessary receipts

	regarding the same are visible to the farmer. And, these receipts are added here by the Farmer Database. This use case also extends manage alerts.
Basic Flow	<ol style="list-style-type: none"> 1. The user selects my documents from the menu. 2. The system displays all the documents that the farmer(user) has uploaded so far as well as the receipts of subsidies that have been sanctioned to the user. These receipts are added here by the Farmer Database. 3. The user selects the option to upload the documents. 4. The documents get uploaded and gets added to the government side's document list as it will undergo verification by the government employee. 5. The system, displays all the documents that need to be verified to the government employee. 6. The government employee chooses to approve or disapprove the document.[A1][A2] 7. The main section of the user's documents gets updated. 8. The document gets removed from the document list of the government employee.
Post-Condition	The updated document list gets displayed. Also, the documents get verified.
Alternate Flow	<p>[A1]When the government employee approves a document, the farmer gets the alert message "document validated".</p> <p>[A2]When the government employee disapproves a document, the farmer gets the alert message "document invalid" along with a reason as to why the document was invalid.</p>
Exception	<ol style="list-style-type: none"> 1. There may be server error and the user may have to upload the documents again. 2. The size of the document exceeds the threshold of document upload. 3. There are no documents for the farmer to upload and therefore no documents for the government employee to verify. 4. The farmer cancels the upload.

4. Update Profile

Identifier	UP
Use case Name	Update Profile

Actor	Farmer
Pre Condition	The user must have logged in
Description	The user can update as well as add to his profile details like his bank account details,phone number,password, landholding,village , sub district and sector.
Basic Flow	<ol style="list-style-type: none"> 1. The user selects my profile. 2. The System displays the current profile details. 3. The user selects the field he/she wants to add/edit. 4. The user adds/edits the information accordingly and submits.[A1] 5. The system updates the information. 6. The user gets to see the profile with the updated information.
Post-Condition	The details of the user are updated successfully.
Alternate Flow	[A1].System displays the profile page with appropriate message to correct invalid information.And, the user has to re-enter the information of that field.
Exception	<ol style="list-style-type: none"> 1.There may be a server error while updating the profile. 2.The user selects the cancel option. The system returns the user to the profile page with any information entered just now been erased.

5. Apply for subsidy

Identifier	AFS
Use case Name	Apply for subsidy
Actors	Farmer, Government employee, Subsidy Database
Pre-Condition	The user must have logged in.
Description	The user applies for subsidy .The government may approve the subsidy , keep the subsidy pending or disapprove the subsidy after verifying the necessary documents. This use case extends manage alerts.
Basic Flow	<ol style="list-style-type: none"> 1. The farmer selects a type of subsidy to apply. 2. The farmer then selects his category from the drop down available in the chosen type of subsidy. 3. He then selects the appropriate subsidy schemes from the

	<p>dropdown.</p> <ol style="list-style-type: none"> The user then clicks submit.[A1][A2] The user is returned to the home page.
Post-Condition	The farmer successfully applies for the subsidy, the government validates the subsidy, subsidy database gets updated and if the subsidy has been approved then the status of subsidy gets stored in track your subsidy.
Alternate Flow	<p>[A1].The government employee gets an alert about the subsidy request.The criteria to avail the subsidy may not match in that case the user is not eligible for that subsidy.So, the government employee will then disapprove the request. The farmer gets the alert message “Subsidy denied” along with a reason as to why the subsidy was denied. The subsidy request gets removed from the government employee’s list of subsidy request.</p> <p>[A2].The government employee approves the subsidy request, the farmer gets the alert message “Subsidy sanctioned”. The subsidy request gets removed from the government employee’s list of subsidy request. Subsidy database gets updated. ”Track your subsidy” of the farmer gets the initial status of the subsidy.</p>
Exception	<ol style="list-style-type: none"> There may be a server error and the user may have to apply for the subsidy again. The user selects the cancel option. The system returns the user to the home page.

6. Track your subsidy

Identifier	TYS
Use case Name	Track your subsidy
Actors	Farmer,Government Employee, Farmer Database
Pre-Condition	The user must have logged in.
Description	The user can track the status of subsidy and get an estimate of when the money will be deposited. The government employee updates the status of the subsidy. When the subsidy is sanctioned, the farmer database keeps the record of this and a receipt is generated for the same that gets added to the documents of the farmer. This use case extends manage alerts.
Basic Flow	<ol style="list-style-type: none"> The user selects track your subsidy option from the menu.[A1]

	2. The system displays the status of subsidy delivery. [A2]
Post-Condition	The status of the subsidy delivery is displayed and gets updated as well.
Alternate Flow	<p>[A1]The government employee will select a farmer whose subsidy request has been approved but not yet delivered from the list. He will update the status of subsidy.This will generate an alert to the farmer displaying the current status of subsidy.</p> <p>[A2] If the status is subsidy is sanctioned,he farmer database keeps the record of this and a receipt is generated for the same that gets added to the documents of the farmer.This will generate an alert to the farmer displaying “Subsidy delivered”.</p>
Exception	<p>1.There may be a server error due to which the user can’t track the subsidy.</p> <p>2.There are no subsidy requests to track.</p>

7. Subsidy Information

Identifier	SI
Use case Name	Subsidy Information
Actors	Farmer, Government Employee, Subsidy database
Pre-Condition	The user must select subsidy information from the menu.
Description	Information is available of different subsidy schemes based on the subsidy categories.The government may find a need to introduce a new subsidy if the available subsidies are not sufficient or may decide to drop a subsidy if there are not many users availing the subsidy and if there are other better alternatives or decide to update the criteria of land holding , category of farmer etc. of a particular subsidy so that also can be done by updating the information. This use case extends manage alerts.
Basic Flow	<p>1.The current subsidy schemes are displayed.</p> <p>2.The user selects a specific subsidy scheme.[A1][A2][A3]</p>
Post-Condition	The user gets the required information about subsidies.
Alternate Flow	[A1]The government adds a new subsidy scheme information.And then submits the information.The subsidy information on the page gets updated.And, this updated page gets displayed.

	<p>[A2]The government edits a current subsidy scheme information.And then submits the information.The subsidy information on the page gets updated.And, this updated page gets displayed.</p> <p>[A3]The government removes a current subsidy scheme information. And then submits .The subsidy information on the page gets updated wherein the selected scheme has been removed.And, the updated subsidy information gets displayed.</p>
Exception	1.There may be a server error due to which the information may not be correctly displayed.

8. Manage Alerts

Identifier	MA
Use case Name	Manage alerts
Actors	Farmer, Government Employee
Pre-Condition	The user must have logged in.
Description	<p>The user is allowed to manage alerts by using this functionality. The alerts will be related to any information that needs the actors attention. In case of farmers, the alerts will be related to any new schemes introduced by the government or updates regarding the status of his subsidy application or updates about the estimated time of delivery of the sanctioned subsidy. In case of the government employee, the alerts will be related to the documents that have lined up for verification or subsidies that have been requested by any farmer. The user will be able to view the list of these alerts and can select to either show the alert in his alerts section or remove the alert.</p>
Basic Flow	<ol style="list-style-type: none"> 1. The user selects the option to manage alerts from the menu. 2. The system displays the list of alerts in the order of most recent being at the top and the rest follow. 3. The user can choose to remove the alert or show the alert.[A1][A2] 4. The alerts get displayed in the alerts section of user.
Post-Condition	The Alerts that have been selected to show are displayed in user's alerts section and if an alert has been removed then it is not shown.

Alternate Flow	<p>[A1].In case user chooses to Remove Alert , System displays the confirmation message “Do you want to remove this alert? Click Yes to confirm” with yes or no option. In case actor selects “Yes”, system removes the alert and displays the message “Alert has been removed successfully.” In case actor selects “No”, system doesn’t remove the alert.</p> <p>[A2].In case user chooses to Show this Alert , System displays the confirmation message “Alert was successfully added into the Alert list.” And, the alert is removed from the View Alerts list</p>
Exception	<ol style="list-style-type: none"> 1. There may be a server error due to which the alerts may be delayed. 2. No Alerts are available in the system. System displays the message “ There are no alerts available in the system”.

USE CASE DIAGRAM

