

## Features Document

Project	Candijay Fishery and Agricultural Household Registration Management and Decision Support System (C-FARMS)
Internal Release Number	1.0.0
Related Documents	Project proposal > Use case suite

Process impact: This is a set of detailed feature descriptions. Process flow of the system is described here.

### F-01 Web Portal Access

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Web Portal
<b>Use case(s):</b>	UC-001, UC-002
<b>Description:</b>	Users can access the application through a web browser. Only those registered to the system with their Gmail address may login to the application.
<b>Notes and Questions:</b>	<ul style="list-style-type: none"><li>• SSL is required. This enables the “https” later on the proxy server. <a href="#">Let's Encrypt</a> issues Free SSL/TLS Certificates.</li></ul>

### F-02 User Authentication

<b>Priority:</b>	Expected
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Web Portal
<b>Use case(s):</b>	UC-002
<b>Description:</b>	Users must be able to login to the web application using their Google account.

<b>Notes and Questions:</b>	N/A
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### F-03 User Registration

<b>Priority:</b>	Expected
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<b>Effort:</b>	Days
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<b>Risk:</b>	Safe
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<b>Functional area(s):</b>	User Management
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<b>Use case(s):</b>	<a href="#">UC-004</a>
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<b>Description:</b>	The administrator may register user accounts.
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<b>Notes and Questions:</b>	N/A
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### F-04 Update User Registration

<b>Priority:</b>	Expected
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<b>Effort:</b>	Days
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<b>Risk:</b>	Safe
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<b>Functional area(s):</b>	User Management
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<b>Use case(s):</b>	<a href="#">UC-003</a> , <a href="#">UC-005</a> , <a href="#">UC-006</a>
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<b>Description:</b>	The administrator may update the email, user role and status of user. Users may also be deleted.
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<b>Notes and Questions:</b>	Only users who have no records of transactions in the system aside from login may be deleted.
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## F-05 Household Registration

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Household Management
<b>Use case(s):</b>	UC-007, UC-008
<b>Description:</b>	Registration page of household. Manager or encoder fills out the primary details, secondary details and initial annual info of the household.
<b>Notes and Questions:</b>	N/A

## F-06 Household Registration Details

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Users
<b>Use case(s):</b>	UC-007, UC-009, UC-010, UC-011, UC-012, UC-013, UC-014 UC-015, UC-016, UC-017, UC-018, UC-019
<b>Description:</b>	Profile page of the household. Demographic details, farm assignment, annual update on farm annual produce and income can be displayed in the profile page of each household.
<b>Notes and Questions:</b>	<p>Data that can be recorded in the household profile will be based from the RSBSA Enrollment Form: <a href="https://www.da.gov.ph/wp-content/uploads/2021/05/RSBSA_Enrollment-Form_032021.pdf">https://www.da.gov.ph/wp-content/uploads/2021/05/RSBSA_Enrollment-Form_032021.pdf</a></p> <p>For annual info, the following can be recorded annually:</p> <ul style="list-style-type: none"><li>- Main Livelihood,</li><li>- Gross Annual Income (Farming and Non-farming)</li></ul> <p>For commodity produce, the following can be recorded annually per commodity:</p> <ul style="list-style-type: none"><li>- Year produced,</li><li>- Farm produced,</li><li>- Commodity produced,</li><li>- Organic/Non-organic, and</li><li>- Produce in metric tons</li></ul>

Users can enter a different unit of measurement for commodity produce as long as the equivalent metric ton for the said unit is set already in the commodity module.

Users may also view the list of farms of the household.

## F-07 Farm Registration

**Priority:** Essential

**Effort:** Days

**Risk:** Safe

**Functional area(s):** Farm Management

**Use case(s):** [UC-020](#)

**Description:** Encoder may register a farm by drawing the estimated boundaries and other details of the farm.

**Notes and Questions:**

The following details of the farm should be included:

- Name,
- Ownership type,
- Registered household of the farm,
- Registered owner of the farm,
- Ownership Document submitted by the household,
- Type of farm,
- Size of farm in hectares,
- Barangay location of the farm,
- Whether the farm is granted under the Comprehensive Agrarian Reform Law, and
- Whether the farm is part of ancestral domain.

Other notes:

- Only registered households with “Farmer” as main livelihood for the previous year of registration may be assigned to a farm.
- Leaflet may be used for the mapping of farms.

## F-08 Farm Registration Details

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Farm Management
<b>Use case(s):</b>	<a href="#">UC-022</a> , <a href="#">UC-024</a>
<b>Description:</b>	Users can view registration details of the farm. Produce for each farm can be viewed through the produce tab.
<b>Notes and Questions:</b>	

## F-09 Farm Registration List

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Farm Management
<b>Use case(s):</b>	<a href="#">UC-020</a>
<b>Description:</b>	Users can view all farm registrations through a list or a map.
<b>Notes and Questions:</b>	<p>For the map view the following farm details can be displayed when a farm location is clicked:</p> <ul style="list-style-type: none"><li>- Name,</li><li>- Household assigned,</li><li>- Owner of the farm, and</li><li>- Size in hectares.</li></ul> <p>For the list view, the following farm details can be displayed:</p> <ul style="list-style-type: none"><li>- Name,</li><li>- Household assigned, and</li><li>- Size in hectares</li></ul>

## F-10 Program Registration

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Program Management
<b>Use case(s):</b>	<a href="#">UC-026</a>
<b>Description:</b>	Managers can add programs through the program registration page.
<b>Notes and Questions:</b>	Program type refers to the type of beneficiaries of the program. Association means the beneficiaries are farmers' association. Otherwise, beneficiaries are household.

## F-11 Program Details

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Program Management
<b>Use case(s):</b>	<a href="#">UC-025</a> , <a href="#">UC-027</a> , <a href="#">UC-028</a> , <a href="#">UC-029</a>
<b>Description:</b>	<p>Managers can view list of programs, specific details of programs and program beneficiaries through the program details page.</p> <p>From the programs list, specific programs can be deleted.</p>
<b>Notes and Questions:</b>	Only programs with no recorded beneficiary can be deleted.

## F-12 Program Beneficiaries

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Program Management
<b>Use case(s):</b>	UC-030, UC-031, UC-032
<b>Description:</b>	Managers can select or remove program beneficiaries.  Encoders can view and download list of beneficiaries for the program.
<b>Notes and Questions:</b>	On the selected page, all beneficiaries already selected are displayed. Eligible beneficiaries not yet selected are in the not selected page. Managers can set the filters for eligible beneficiaries.

## F-13 Commodity Management

<b>Priority:</b>	Expected
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Commodity Management
<b>Use case(s):</b>	UC-037, UC-038, UC-039, UC-040
<b>Description:</b>	Managers can add commodities that are not yet found in the system. They can also view add or delete commodities.
<b>Notes and Questions:</b>	Only commodities with no record of commodity produce can be deleted.

#### F-14 Association Management

<b>Priority:</b>	Expected
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Commodity Management
<b>Use case(s):</b>	UC-033, UC-034, UC-035, UC-036
<b>Description:</b>	Managers can add farmers' association. They can also view, add or update associations.
<b>Notes and Questions:</b>	

#### F-15 Data Analytics

<b>Priority:</b>	Essential
<b>Effort:</b>	Days
<b>Risk:</b>	Safe
<b>Functional area(s):</b>	Dashboard
<b>Use case(s):</b>	UC-041
<b>Description:</b>	Users can view a summary of system data in a dashboard through data visualizations.
<b>Notes and Questions:</b>	<p>The following information can be found in the dashboard:</p> <ul style="list-style-type: none"><li>- Number of registered households,</li><li>- Number of registered associations,</li><li>- Number of registered farms,</li><li>- Number of programs,</li><li>- Graph of average annual income,</li><li>- Graph of annual household registration,</li><li>- Graph of annual livestock/poultry inventory,</li><li>- Graph of annual volume of fishery production, and</li><li>- Graph of annual crop production, yield and area harvested.</li></ul>