UC-SSF-0201: Register new gear

> **Warning**
>
> As we are currently in the planning phase, please be aware that there may be changes to the use cases. Adjustments or revisions may occur as the project progresses.

1. Use Case Description

This use case outlines **the process for small-scale fishers to register and modify their fishing gear** through the Small Scale Fisheries Application. Gear registration is essential for compliance with fishing regulations, monitoring fishing effort, and ensuring sustainable fishing practices.

1.1. Goal

This detailed use case covers the steps involved in registering new fishing gear and modifying existing gear information in the Small Scale Fisheries Application, including handling scenarios where fisher encounter issues or decide to cancel the process.

1.2. Pre-conditions

1. The fisher is **logged in**to the Small Scale Fisheries Application.
2. The fisher has a **registered account with user ID** on the SSF application.
3. The fisher has relevant details about the new gear they wish to register or the existing gear they want to modify.

1.3. Post-conditions

1. The **new gear is successfully registered** with accurate details.
2. **Modifications** to existing gear are **saved and updated** in the system.
3. The fisher receives confirmation of successful registration or modification.

1.4. Trigger Event(s)

1.4.1. Primary Actor:

1. Fisher

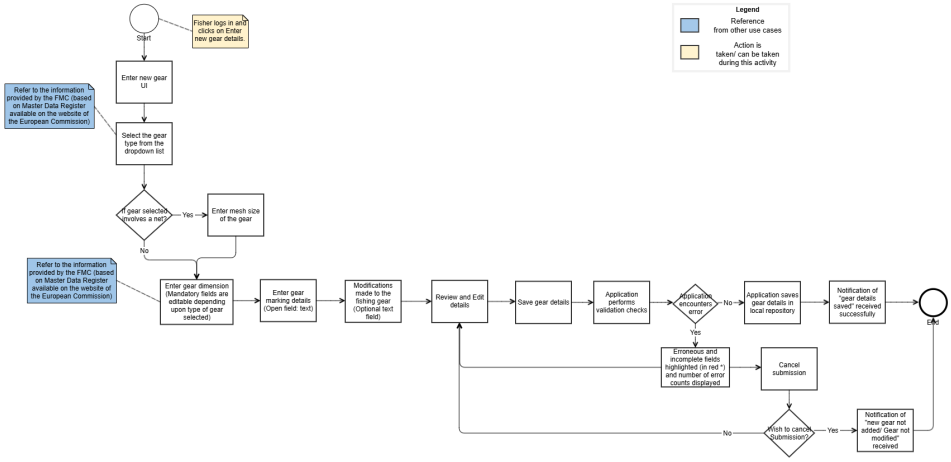
1.4.2. Secondary Actor(s):

1. Application
2. FMC
3. Master Data Register

2. Use Case Details

> **In the activity diagram below:**
>
> References form other use cases are marked in "BLUE"
>
> Action is taken or can be taken during this activity are marked in "YELLOW"

2.1. Activity Diagram



2.2. Primary Path

Step ID	Actor	Action	Notes and References
PF-1	Fisher	The flow is triggered when fisher clicks on Enter new gear details.	
PF-2	Application	Application open **Enter gear details interface** and allows fisher to add details.	
PF-3	Application	Application ask fisher to **select the gear type** from the dropdown list.	**Refer to the information provided by FMC (based on Master data register available on the website of European commission).**
PF-4	Fisher	Fisher selects the gear from the dropdown list.	
PF-5	Application	Application checks if the **selected gear involves net**, if no.	**AF-1: If gear selected involves the net**
PF-6	Application	Application asks fisher to **enter gear dimension** from the list provided by the FMC.	**Refer to the information provided by FMC (based on Master data register available on the website of European commission).**
PF-9	Fisher	Fisher enters the gear dimensions from the list provided.	
PF-7	Application	Application asks to **enter gear marking details** and keep the field open.	
PF-8	Fisher	Fisher enters the gear marking details.	
PF-9	Application	Application open review and edit details page.	
PF-10	Fisher	After checking all the required fields fisher clicks on save gear details.	
PF-11	Application	To maintain integrity of data, **application performs validation checks**.	**AF-2: System encounter error**
PF-12	Application	During checking Application does not encounter any error.	
PF-13	Application	Application **saves the gear details to the local repository /mobile.**	
PF-14	Application	Fisher receives the notification that "**gear details saved successfully**" and primary path ends.	

2.3. Alternative Path(s)

2.3.1 AF-1: If gear selected involves the net

Step ID	Actor	Action	Notes and References
AF-A1	Fisher	The entry point is PF-5 of the primary flow.	
AF-A2	Application	Application checks if the **selected gear involves net**, if yes.	
AF-A3	Application	Application asks fisher to **enter the mesh size** of the gear.	

AF-A4	Fisher	Fisher enters the mesh size of the gear.	
AF-A5	Application	Then application returns to PF-6 of primary path and all the steps till PF-14 are followed and flow ends.	**PF-6 of primary path**

2.3.2 AF-2: System encounter error

Step ID	Actor	Action	Notes and References
AF-A1	Application	The entry point is PF-11 of the primary flow.	
AF-A2	Application	To maintain integrity of data, **application performs validation checks.**	
AF-A3	Application	During checking application **encounters error**.	
AF-A4	Application	The application highlights the incomplete or erroneous fields (in red) and displays an error message with number of error counts.	**EF-1: Cancelled submission by mistake** **EF-2: Cancels submission**
AF-A5	Application	Application **opens review and edit page** for the fisher to make corrections.	
AF-A6	Fisher	Fisher corrects the highlighted fields according to the error displayed.	
AF-A7	Application	Then application returns to PF-9 of primary path and all the steps till PF-14 are followed and flow ends.	**PF-9 of primary path**

2.4. Exception Path(s)

2.4.1 EF-1: Cancelled submission by mistake

Step ID	Actor	Action	Notes and References
EF-A1		The entry point is AF-A4 of the alternate path AF-3.	
EF-A2	Fisher	Fisher clicks on **cancel submission**.	
EF-A3	Application	Application asks if fisher wishes to cancel submission.	
EF-A4	Fisher	Fisher clicks no.	
EF-A5	Application	Then application returns to PF-9 of primary path and all the steps are followed and flow ends.	**PF-9 of primary path**

2.4.2 EF-2: Cancels submission

Step ID	Actor	Action	Notes and References
EF-A1		The entry point is AF-A4 of the alternate path AF-3.	
EF-A2	Fisher	Fisher clicks on cancel submission.	
EF-A3	Application	Application asks if fisher wishes to cancel submission.	
EF-A4	Fisher	Fisher clicks yes.	
EF-A5	Application	Then notification "New gear not added" is displayed on the screen. Application deletes the entered information by the fisher and flow ends.	

3. **Use Case Realisation**

> **Warning**
>
> As we see some changes in the use cases, same will be reflected in the data attributes. It is still in planning phase and are subjected to change.

3.1. Data Attributes

Column Name	LV Objects	SSF Objects	Data Type	Short Description	Notes or Comments
Type	listID= GEAR_TYPE	listID= GEAR_TYPE	Code	The code specifying the type of gear	

Role	listID= GEAR_TYPE listID=FA_GEAR_ROLE value=DEPLOYED; Type=FISHING_OPERATION, JOINT_FISHING_OPERATION value=ONBOARD when the FishingActivity Type=DEPARTURE, ARRIVAL	listID= GEAR_TYPE listID=FA_GEAR_ROLE value=DEPLOYED; value=ONBOARD when the FishingActivity Type=DEPARTURE, ARRIVAL	Code	The code specifying the role of this gear in a Fishing Activity	
ApplicableGear_ Characteristic	listID= FA_GEAR_CHARACTERISTIC UN_DATA_TYPE	listID= FA_GEAR_CHARACTERISTIC UN_DATA_TYPE	Code	The characteristics to be reported depend on the gear type and the gear role.	
Modify_gear	Not defined	Defined in SSF			Additional attributes in SSF
list_of_registered_gears	Not defined	Defined in SSF			Additional attributes in SSF

3.2 Data Model

3.3. Pseudocode

3.4. User Interface

4. Impact and Risks

4.1. Impact

4.2. Risks

5. Test Cases