

UC-SSF-0404: Fishing time



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 describes the process where the **application estimates and records the duration of their fishing activities**. The estimated fishing time is essential for monitoring fishing effort, compliance, and resource management.

1.1. Goal

This detailed use case covers the steps for estimating and recording fishing time in the Small Scale Fisheries Application, including gear time set, gear time haul and lost fishing gear reporting.

1.2. Pre-conditions

1. Fisher has initiated the fishing operation by setting the gear and ended by retrieving the gear.
2. Fisher has entered the date and time of gear set and haul.
3. Fisher has **encoded catch details**.
4. The details of **discarded species and sensitive species is added**.

1.3. Post-conditions

1. The **estimated fishing time** is accurately **recorded** in the application.
2. The application updates the logbook with estimated fishing time.

1.4. Trigger Event(s)

1.4.1. Primary Actor:

1. Fisher

1.4.2. Secondary Actor(s):

1. Application

2. Use Case Details

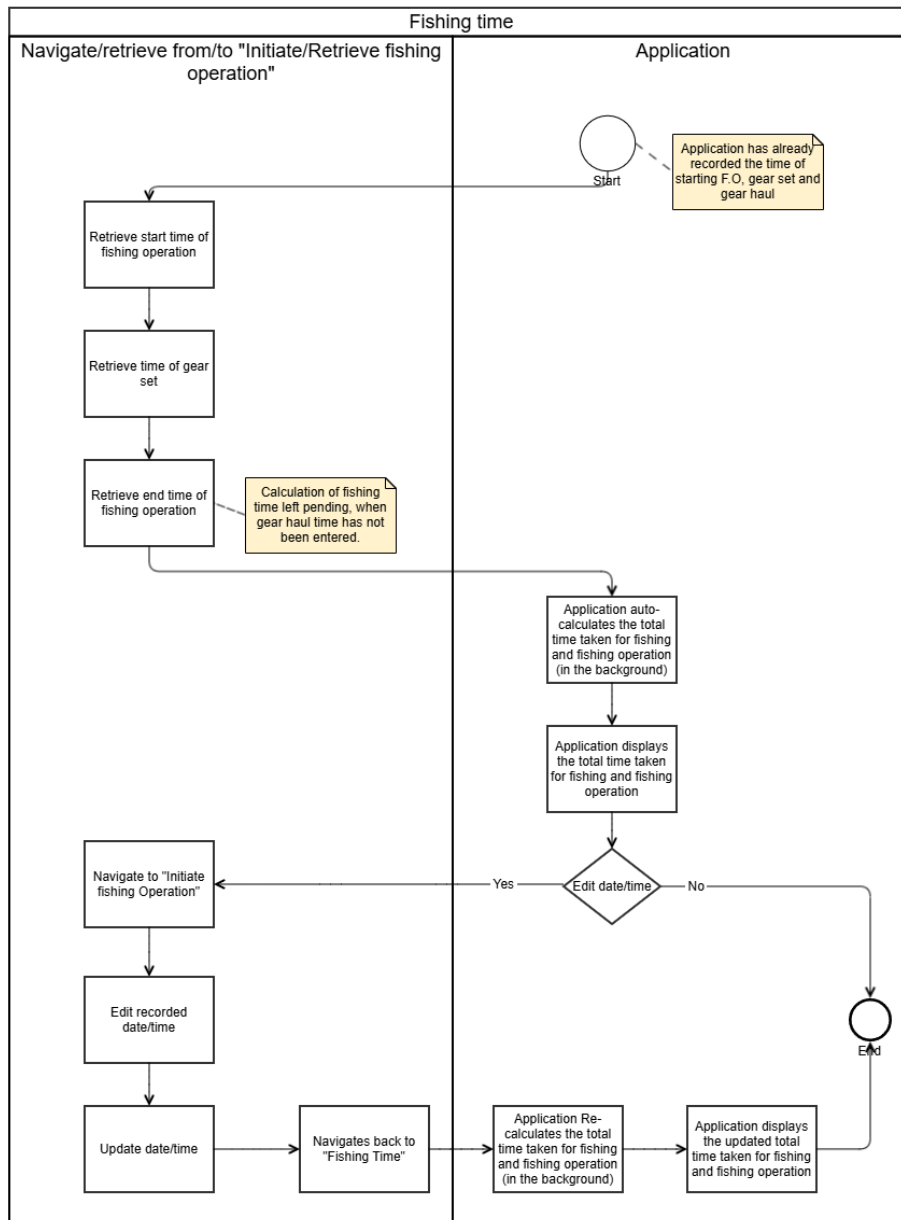


In the activity diagram below:

References from 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		The flow is triggered after initiating the fishing operation and adding the catches discards and sensitive species details.	
PF-2	Application	Auto-retrieves the start time of fishing operation.	
PF-3	Application	Auto-retrieves the time of gear set.	
PF-4	Application	Auto-retrieves the end time of fishing operation.	Note: Calculation of fishing time left pending, when gear haul time has not been entered.

PF-5	Application	Application auto-calculates the total time taken for the fishing operation .	<ul style="list-style-type: none"> This includes the time recorded at the starting of the fishing operation <p>added with</p> <ul style="list-style-type: none"> Time recorded for gear time set and haul that ends the fishing operation. Refer to UC-SSF-0401: Initiate/Retrieve fishing operation for time at starting of fishing operation.
PF-6	Application	Application displays total time taken for fishing operation .	
PF-7	Application	Asks to edit date/time? If no, this ends the primary path.	AF-1: Edit date/time?

2.3. Alternative Path(s)

2.3.1 AF-1 Change date and time of gear time set and haul

Step ID	Actor	Action	Notes and References
AF-A1	Fisher	The entry point is PF-7 of primary path.	
AF-A2	Application	This alternative flow is executed if fisher selects "Yes" from the dropdown.	
AF-A3	Application	Navigates to "Initiate/Retrieve fishing operation" use case and make date/time fields editable.	
AF-A4	Fisher	Edits the date/time and clicks update.	
AF-A5	Application	Updates date/time and navigates back to the "Fishing Time" use case.	
AF-A6	Application	Re-calculates the total time taken for the fishing operation .	
AF-A7	Application	Displays the updated total time taken for fishing operation . This ends the alternate flow.	

2.4. Exception Path(s)

3. Use Case Realisation

3.1. Data Attributes



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.

Column Name	LV Objects	SSF Objects	Data Type	Short Description	Notes or Comments
Start	defined	defined	DateTime		Delimited_Period entity
End	defined	defined	DateTime		
Duration	defined	defined	Measure	Attribute <i>unitCode</i> must be "MIN". The unitCode is defined in the list FLUX_UNIT.	

3.2 Data Model

3.3. Pseudocode

3.4. User Interface

4. Impact and Risks

4.1. Impact

4.2. Risks

5. Test Cases

