Newmutui FE – how navigation is handled

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Introduction

The way newmutui proposes to handle the navigation for an operation, is based on the definition of a **navigation specification**, which defines a number of *targets* for the operation.

On the other hand, the **useNavigationR custom hook** handles the *navigation state*, which comprises basically the current target. This hook publishes operations to push a target (i.e. jump to a target and insert it into a stack), pop from the stack of targets, set an initial target, and others.

Given the specification and the current target, the **useOperationButtons custom hook** generates automatically the button bar with the transitions enabled for the current target.

Finally, the component that implements the **operation workflow** defines a React component X for each possible target Y for the operation, so that the component X is shown whenever the target Y is the current one.

The targets define the flow along the execution of an operation. For each target, a number of transitions to other targets can be specified, this is the core of the navigation specification which we describe in detail later in this document.

The navigation starts in an initial target which is defined by the operation workflow. A button bar is shown below the React component corresponding to the current target. This button bar includes a button for each transition defined for the current target, plus eventually the "Annulla" and "Indietro" buttons.

The newmutui FE defines some generic targets that are common to all operations, i.e. OPERAZIONE_ANNULATA and OPERAZIONE_CONFERMATA.

To give some support to some delicate situations in the navigation, in many cases related with the emergence of modals, the navigation state also includes an optional *special event*.

An initial example

Before getting into the details of a navigation specification, let's have an initial picture about the navigation by means of an example.

This image depicts a possible initial page for the erogazione of a conto mutuo. We indicate the main React components shown.