

# INF2102 – System Specification

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## 1. System Objective

The goal of the Molic\_Builder is to be a web application that allows its users to create and edit MoLIC diagrams using modern technologies (such as Angular and Node.js).

This project aims to provide a quick and simple way to elaborate MoLIC Diagrams. Considering this is an open-source program, further collaboration of the community will be possible.

## 2. Requisites

This system's requisites are divided in three specifications as follows: MoLIC Diagram, Mockups and User Stories.

## 3. MoLIC\_Diagram:

In *Figure 1* there is the MoLIC Diagram of this application, representing the interaction between user and system.

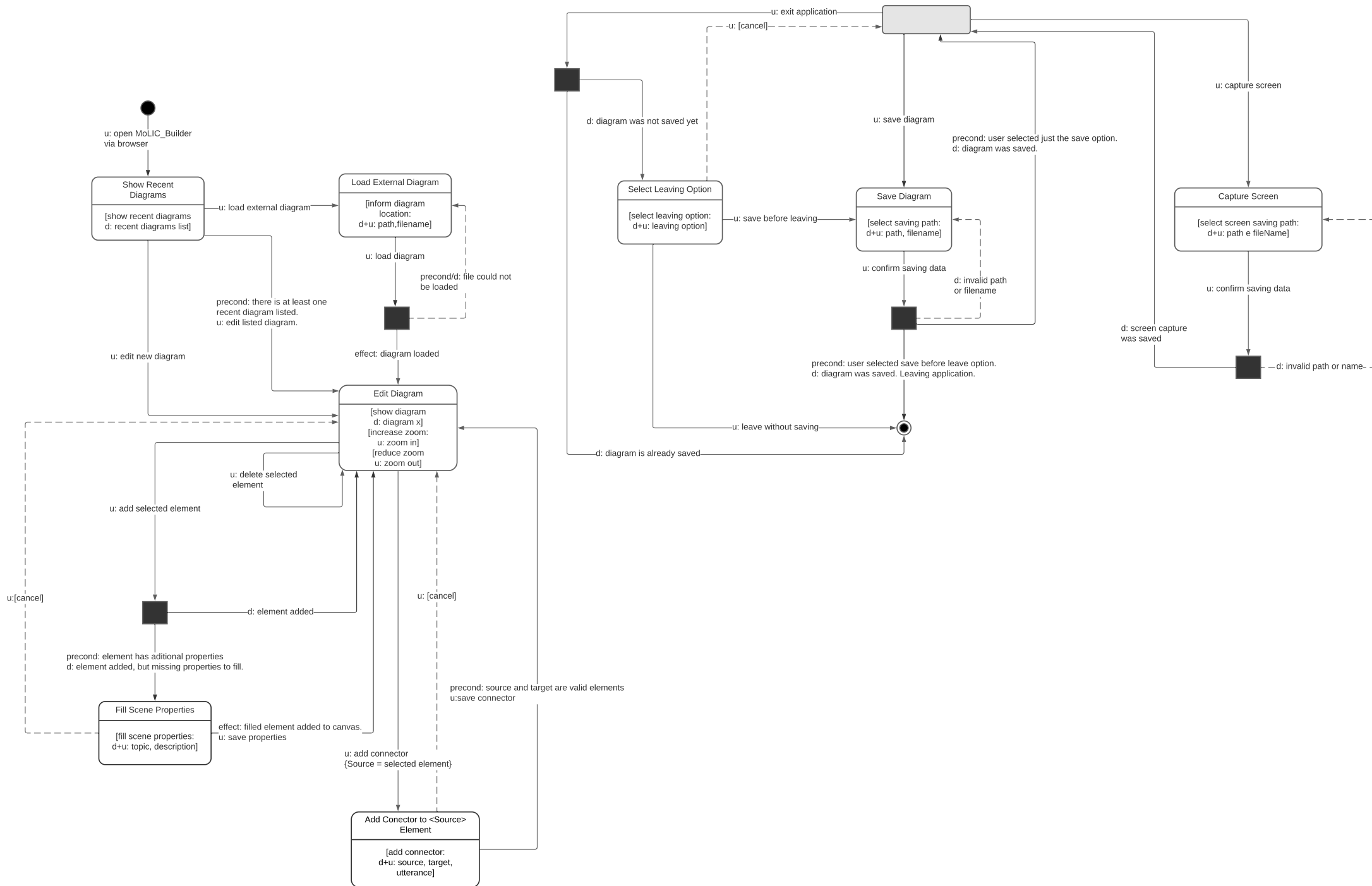


Figure 1 - MoLIC Diagram of MoLIC\_Builder

4. Mockups:

The following mockups represent the MoLIC\_Builder interface.

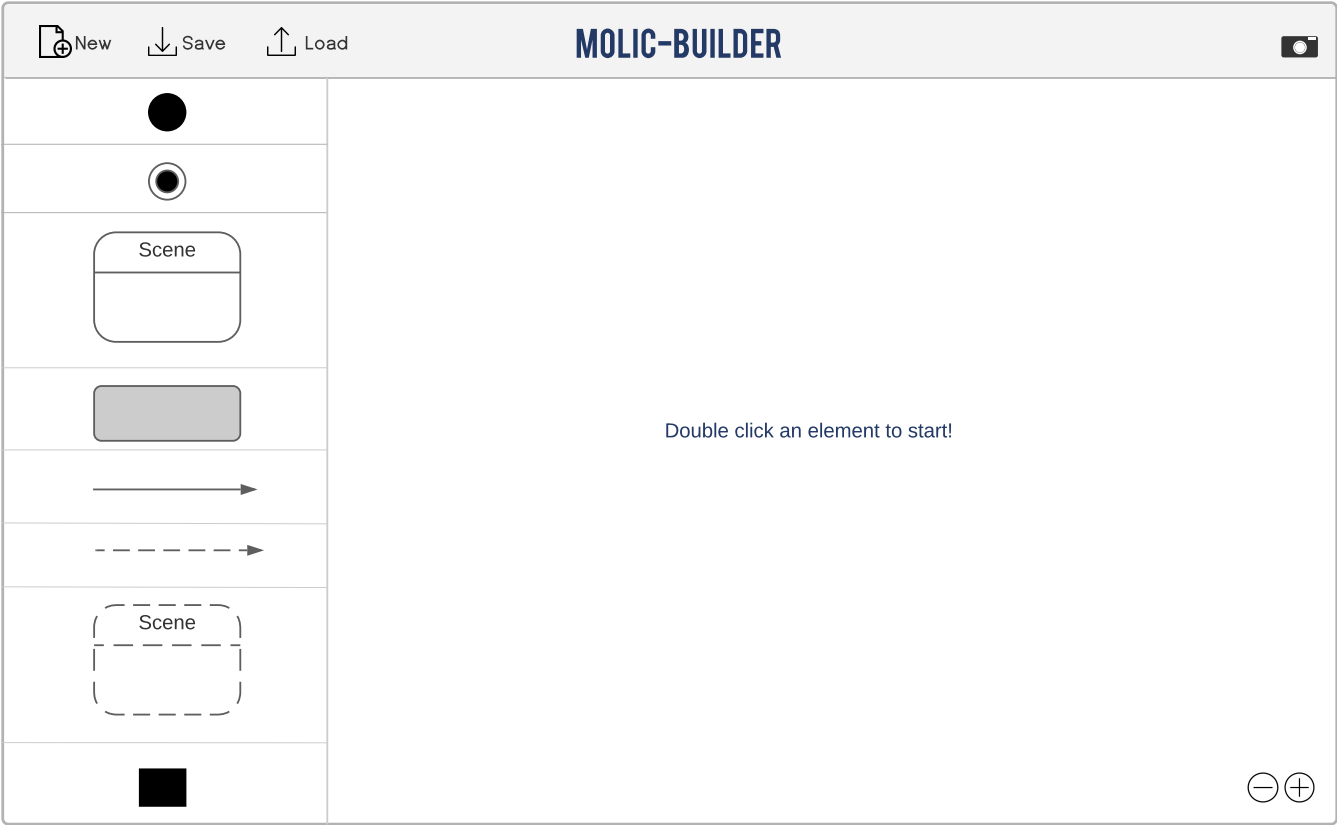


Figure 2 – Initial Screen of Version 1

In future works, the initial screen can evolve to a list of pre-existent diagrams in the user local area.

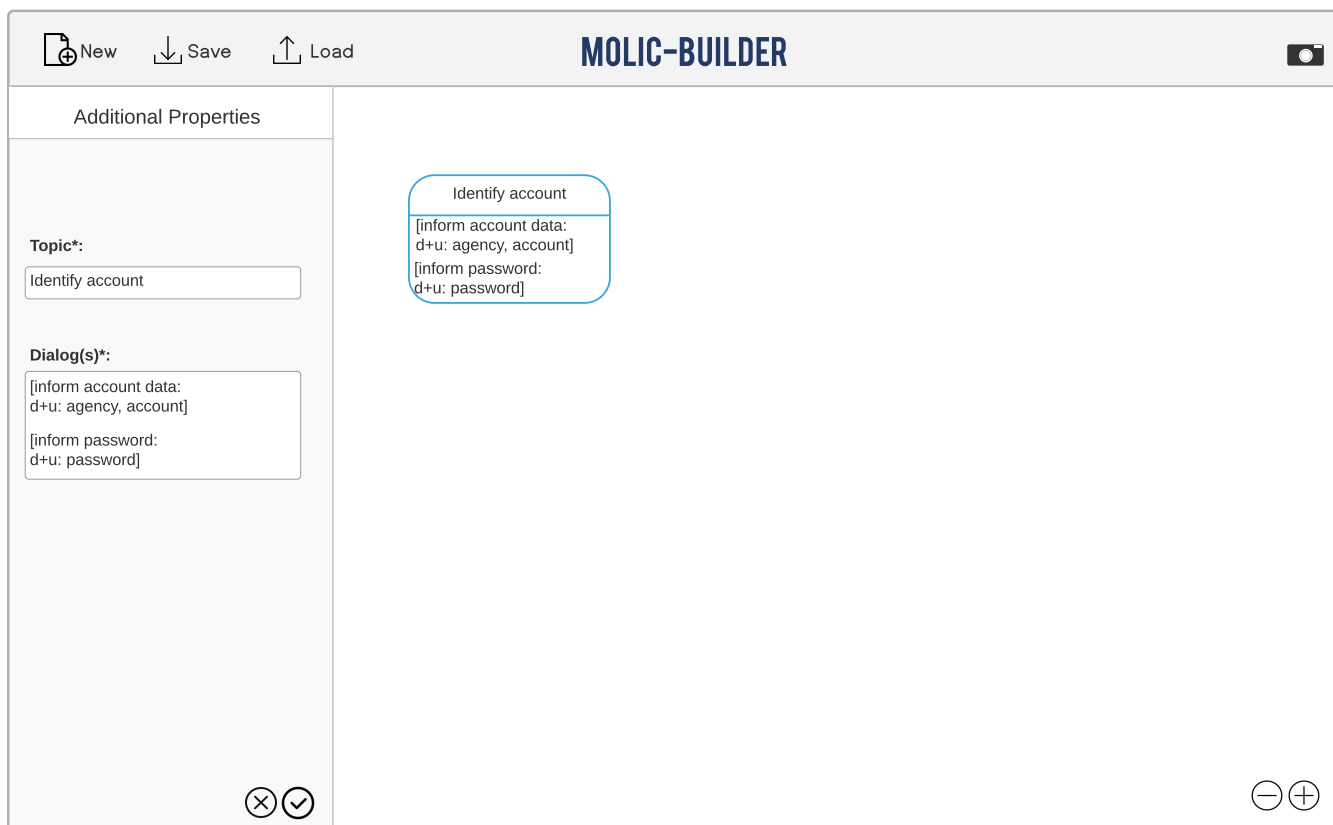


Figure 3 – Provide Additional Properties to an Element

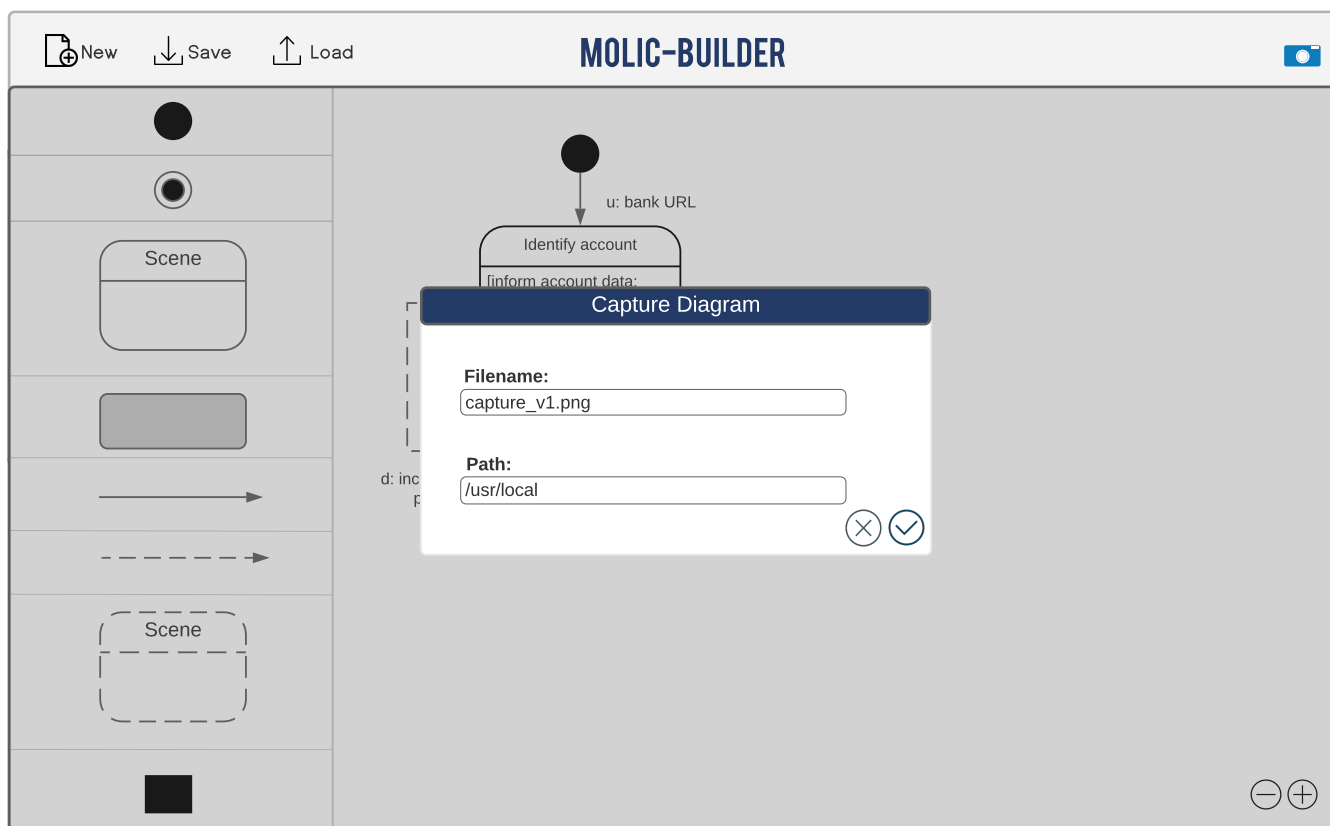


Figure 4 - Dialog to Capture Diagram\*

Note about capture screen diagram (Figure 4): the first version of this system sends the capture automatically to the Downloads folder with an arbitrary name, thus, there will be no Capture Diagram dialog in the first version.

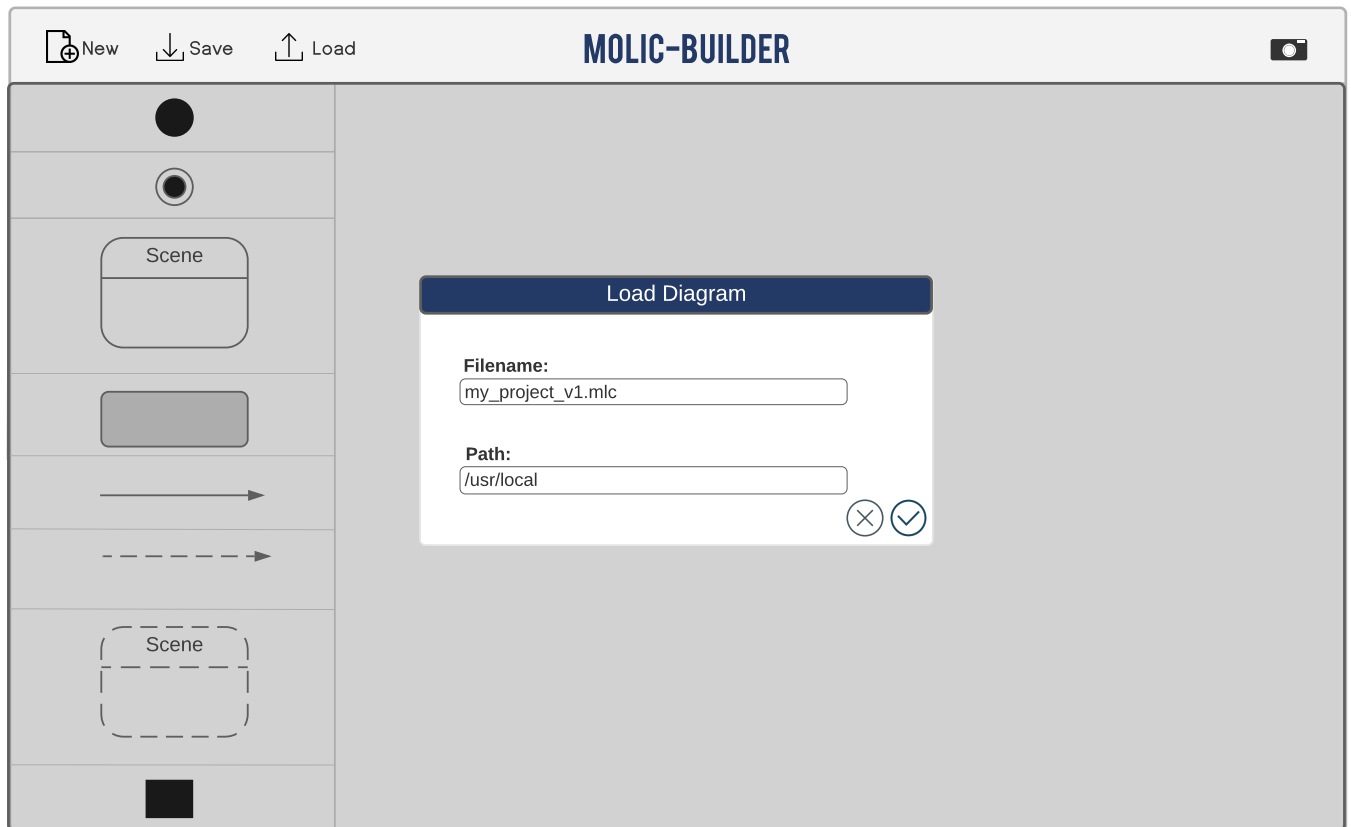


Figure 5 - Dialog to Load an External Diagram

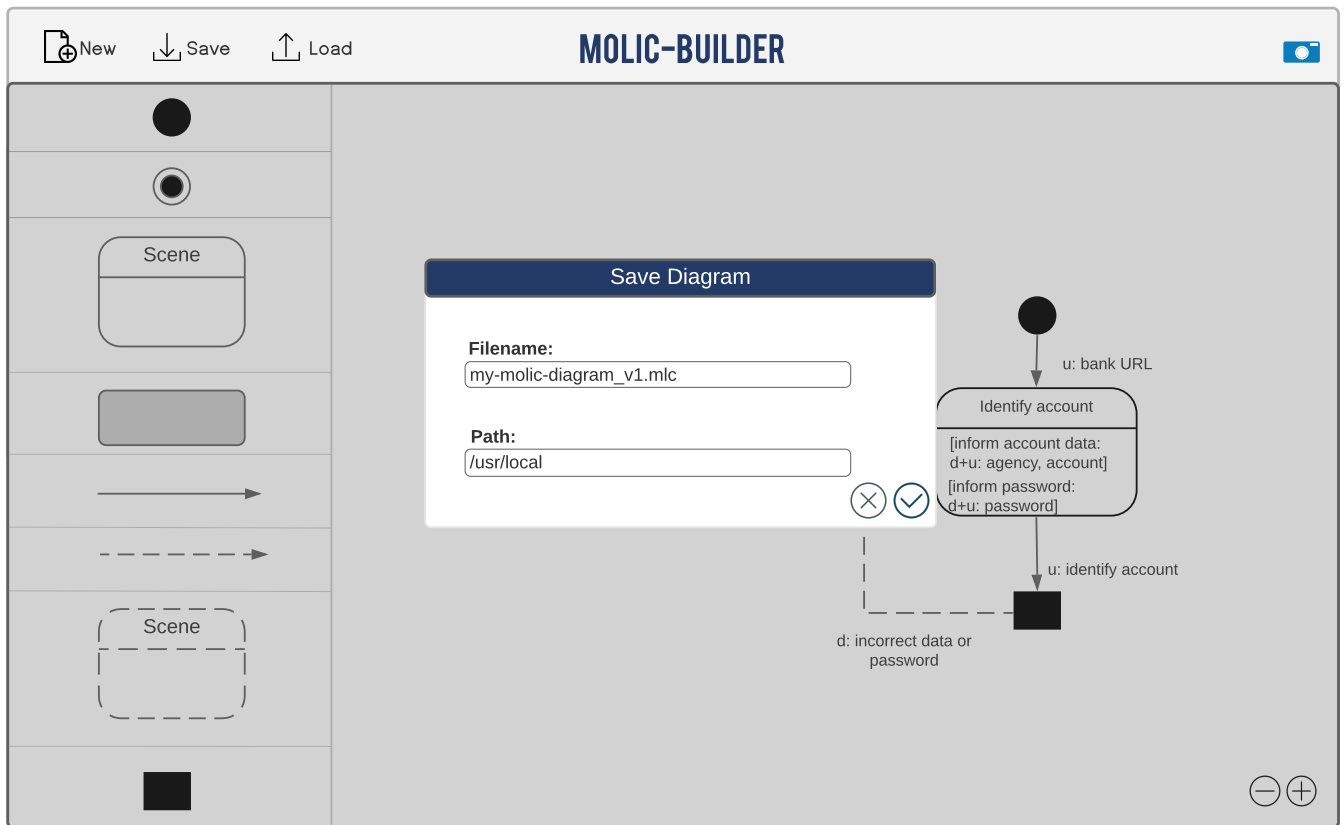


Figure 6 - Dialog to Download the Current Diagram

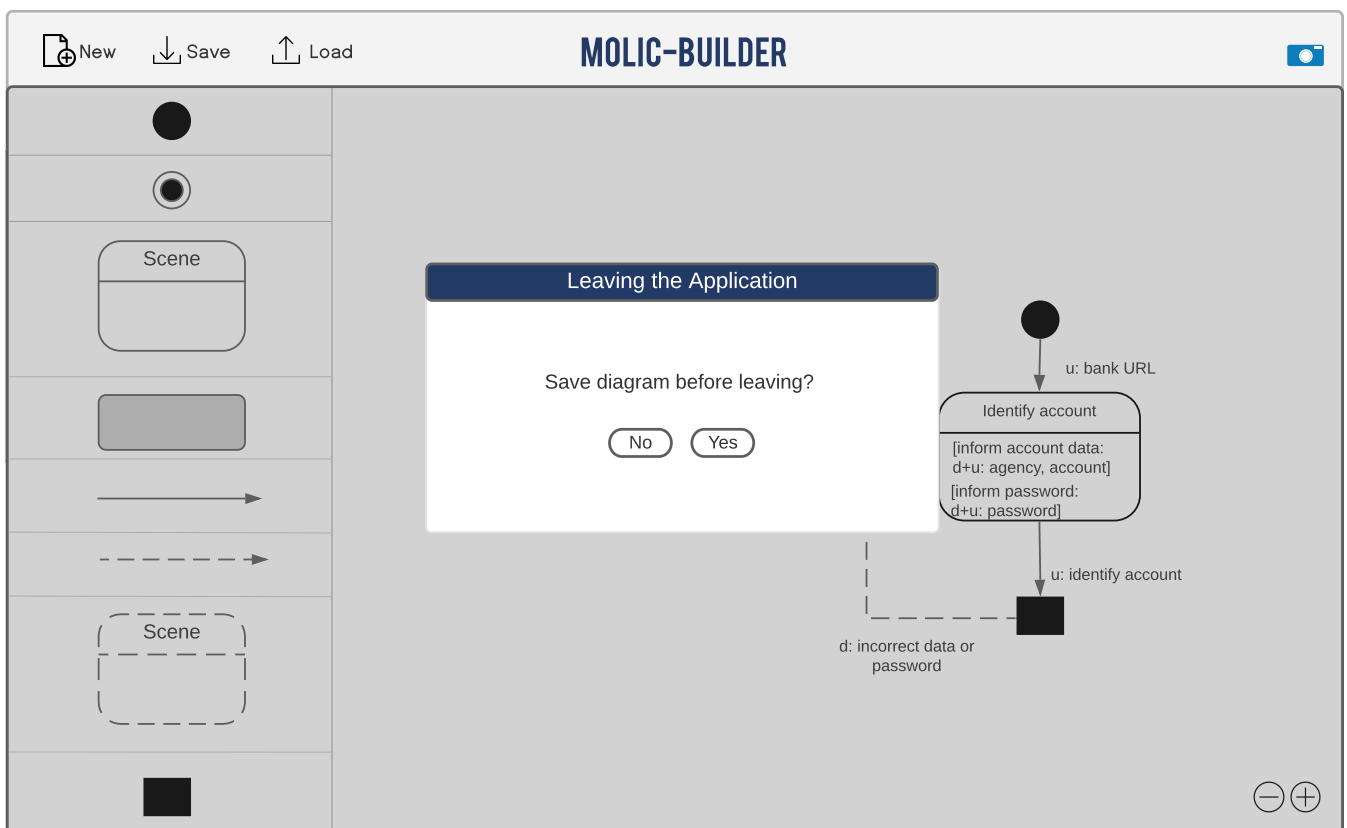


Figure 7 - Save Before Leave Dialog

Note about Figure 7, this dialog is only shown if the user did not save the diagram in its current state.

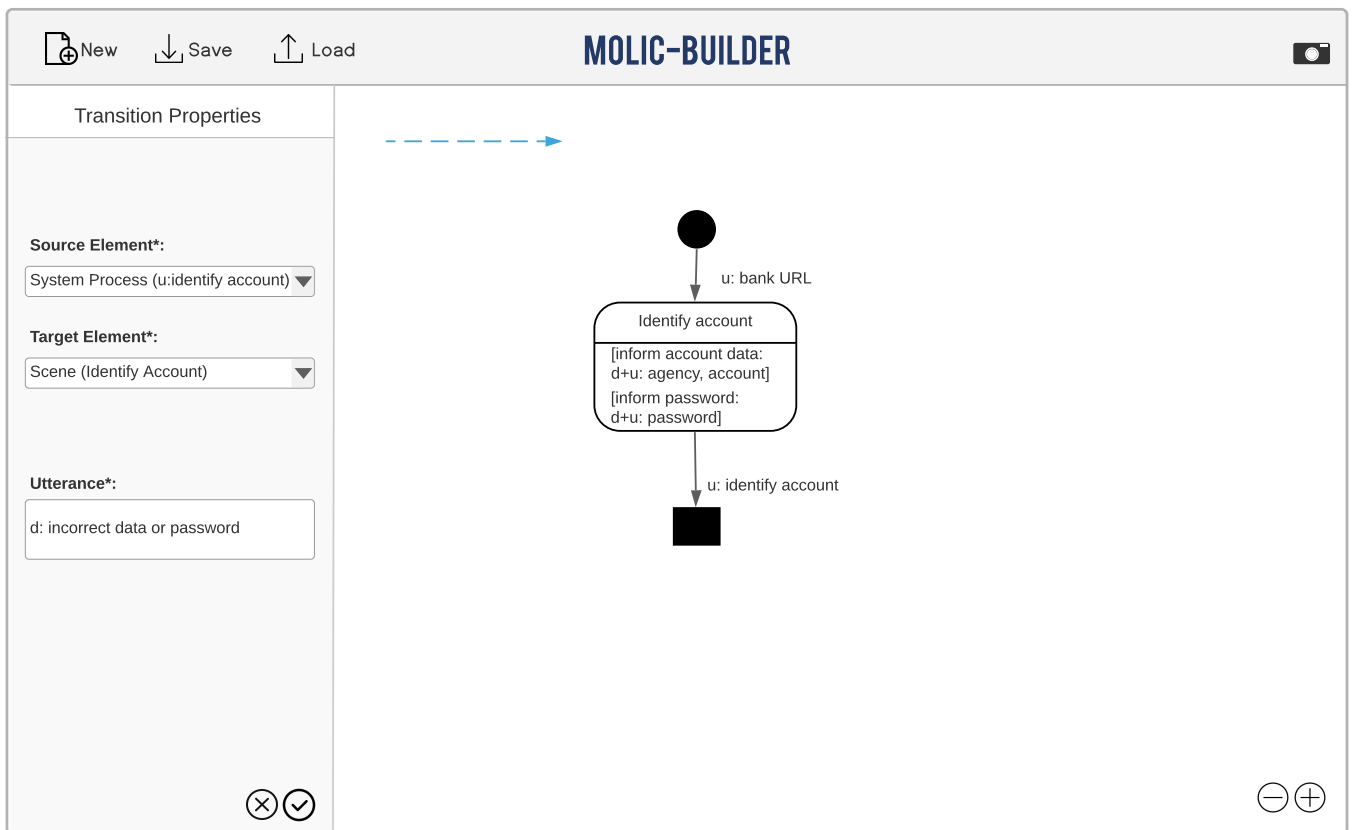


Figure 8 – Provide Connection Properties

What Figure 8 represents is the state of the application after the user adds a connection and fill its properties, which are: source, target and utterance.

## 5. User Stories:

US1: As a user, I want to be able to screen capture the MoLIC diagram under edition so that I can share with my colleagues.

US2: As a user, I want to be able to save the MoLIC diagram I am currently working on, so that I can keep my work in my computer.

US3: As a user, I want to be able to load and edit an existing MoLIC diagram, so that I can continue my work whenever I want.

US4: As a user, I want to be able to create a MoLIC diagram from scratch, so that I can start a brand new work.

US5: As a user, I want to be able to zoom in and out the MoLIC diagram under edition, so that I can focus in a specific area of the diagram.

US6: As a user, I want to drag the elements of the diagram in the canvas, so that I can dispose the elements wherever I want.

US7: As a user, I want to connect the base MoLIC elements using arrows so that I can mount my MoLIC diagram in a simple and interactive way.

## 6. Definition of Done

To consider this system as complete, there should be possible to replicate the MoLIC Diagram provided in *Figure 9*; also, the user should be able to export and import this diagram and screen capture the diagram area.

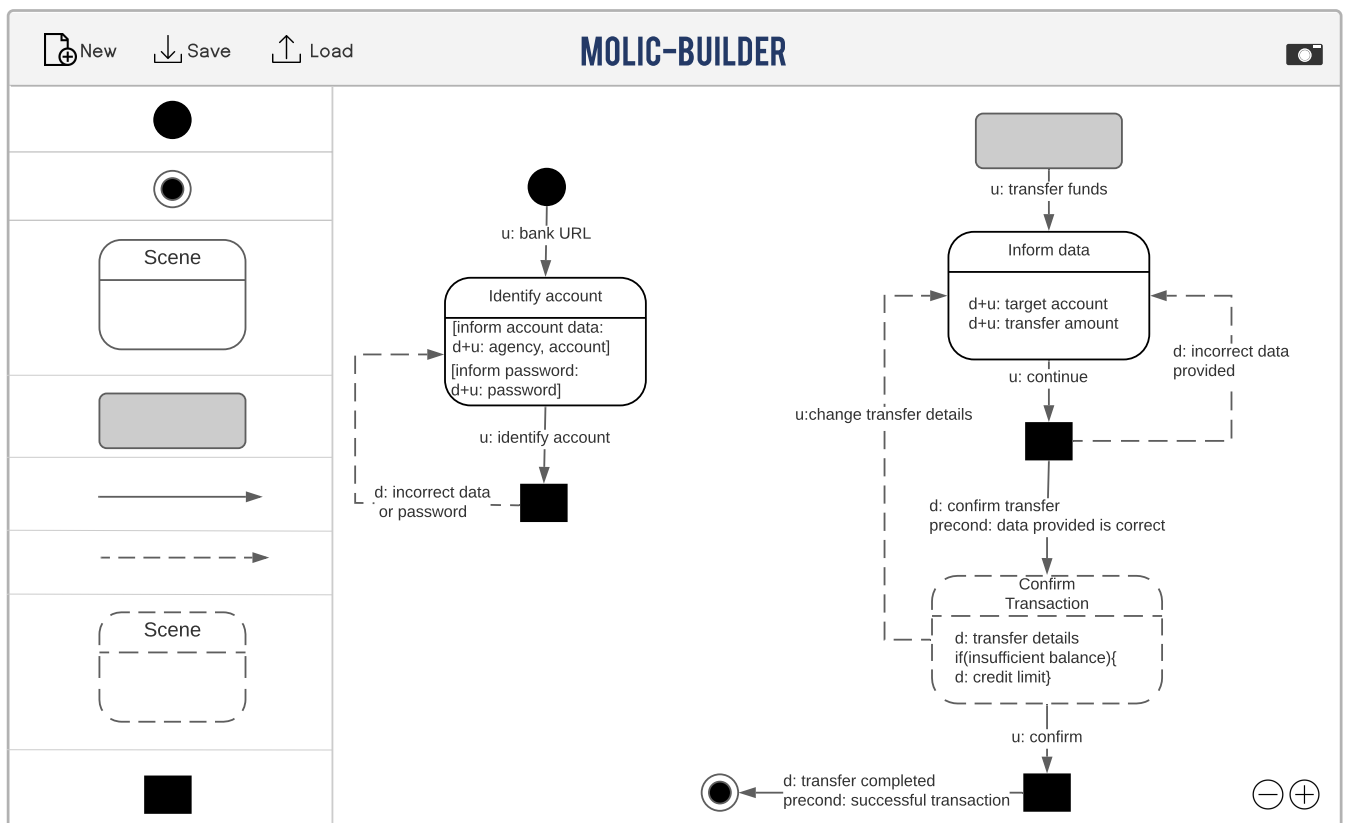


Figure 9 - Example of MoLIC Diagram