**Scenario name : State diagram creation**

Actors: User

Flow of events:

* User launches the program.
* User creates a start state.
* User adds additional states.
* User names states and assigns attributes and functions.
* User defines relationships between states.
* User deletes/modifies states.
* User creates end state.

Entry Conditions:

* Program has been launched

**Scenario name: State file creation/saving**

Actor: User

Flow of events:

* User enters path and file name.
* File is save to the specified path.
* User returns to the workspace.

Entry Conditions:

* A state diagram is open in the workspace
* User has clicked save

Exit Conditions:

* File has been saved or save is canceled

**Scenario name: Importing/loading a file while a non-blank diagram is open**

Actor: User

Flow of events:

* User is prompted to save or delete the current diagram.
* Current diagram is saved or deleted.
* User is prompted to select file to be opened.
* Current working diagram is replaced with the selected file.

Entry Conditions:

* A diagram exists in the edit screen.
* User clicks import/load button.

Exit Conditions:

* Diagram has been imported or cancel has been clicked

**Scenario name: Importing/loading a file while a blank diagram is open.**

Actor: User

Flow of events:

* User is prompted to select file to be opened.
* Current working diagram is replaced with the selected file.

Entry Conditions:

* The edit screen is blank
* User has clicked import/load button.

Exit Conditions:

* Diagram has been loaded or cancel has been clicked.

**Scenario name: User saves serialized diagram.**

Actor: User

Flow of events:

* User is prompted to enter path and file name.
* File is saved in the specified location.
* User returns to workspace.

Entry Condition:

* A serializable diagram is open in the editor.
* User has clicked serialize button.

Exit Condition:

* Serialized diagram has been saved or user clicks cancel

**Scenario name: User runs simulation of the diagram**

Actor: User

Flow of events:

* System disables modification to the diagram.
* The diagram animates over its states.
* User can resume modification after simulation ends.

Entry Condition:

* A simulatable diagram exists in the editor.
* User has clicked simulate.