

UNIVERSITEIT VAN PRETORIA
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COS 301 Main Project

Requirements and Design Specifications

ThinkTech

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Git repository link:

<https://github.com/COS301-ThinkTech>

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1 Vision and scope

1.1 Project background

1.2 Project vision

1.3 Project scope

2 Use case prioritization

2.1 Critical

- createNewFlowchart

2.2 Important

- addFlowchartComponent
- editFlowchartComponent
- saveFlowchart
- loadFlowChart

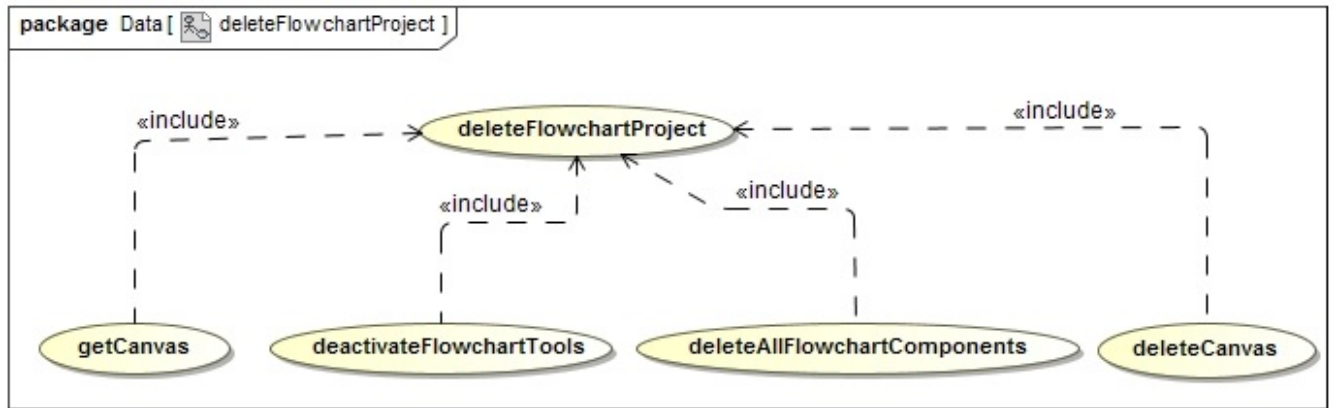
2.3 Nice-To-Have

3 Use cases

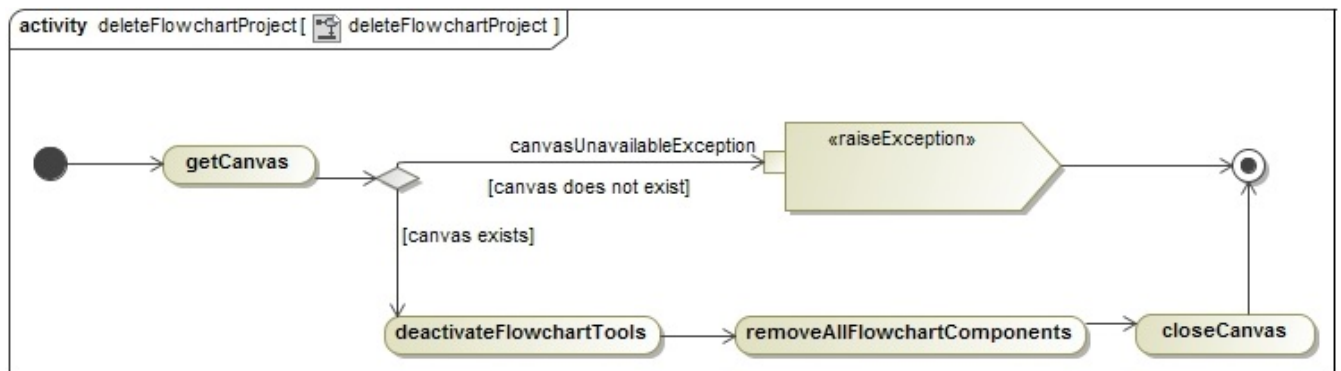
3.1 deleteFlowchartProject

The deleteFlowchartProject use case serves the purpose of removing a flowchart project.

3.1.1 Use case diagram



3.1.2 Activity diagram



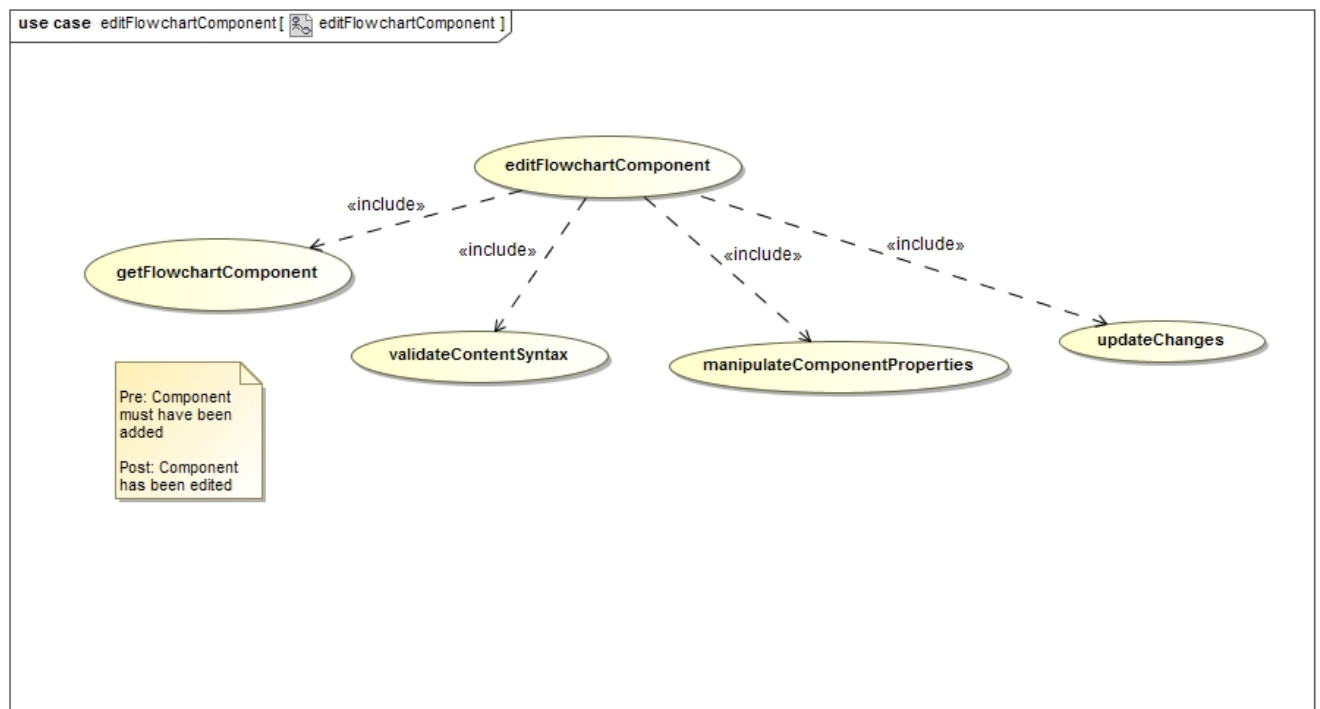
3.2 editFlowchartComponent

The editFlowchartComponent use case provides functionality for the user to edit each component of the flowchart on a canvas.

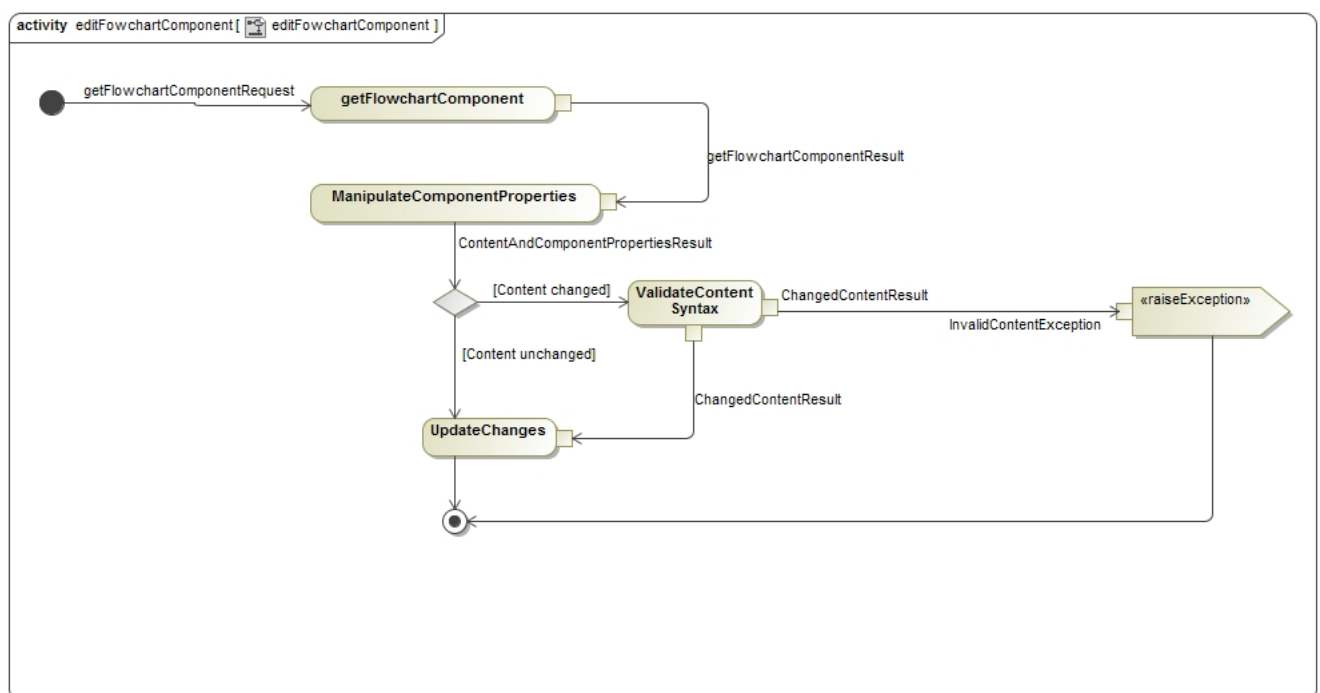
Pre Condition: Component must have been added

Post Condition: Component has been edited

3.2.1 Use case diagram



3.2.2 Activity diagram



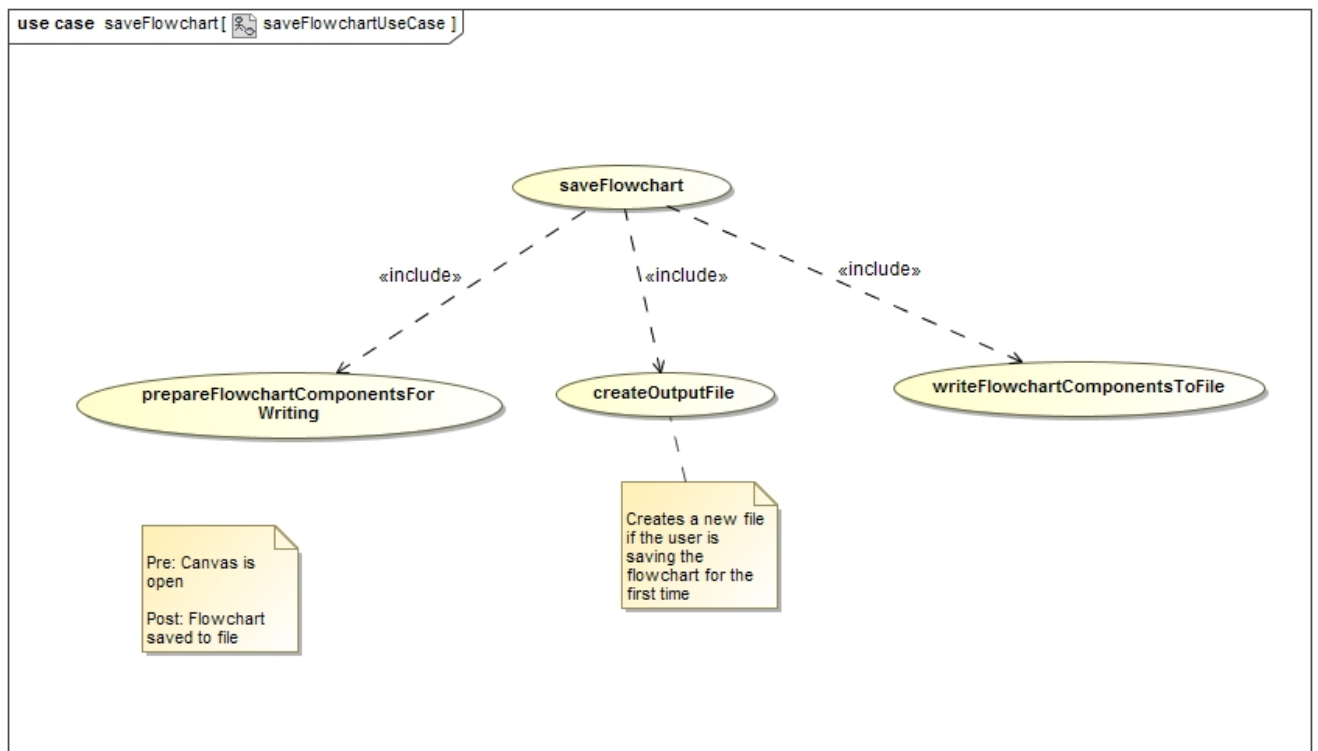
3.3 saveFlowchart

The saveFlowchart use case provides functionality for the user to save a flowchart.

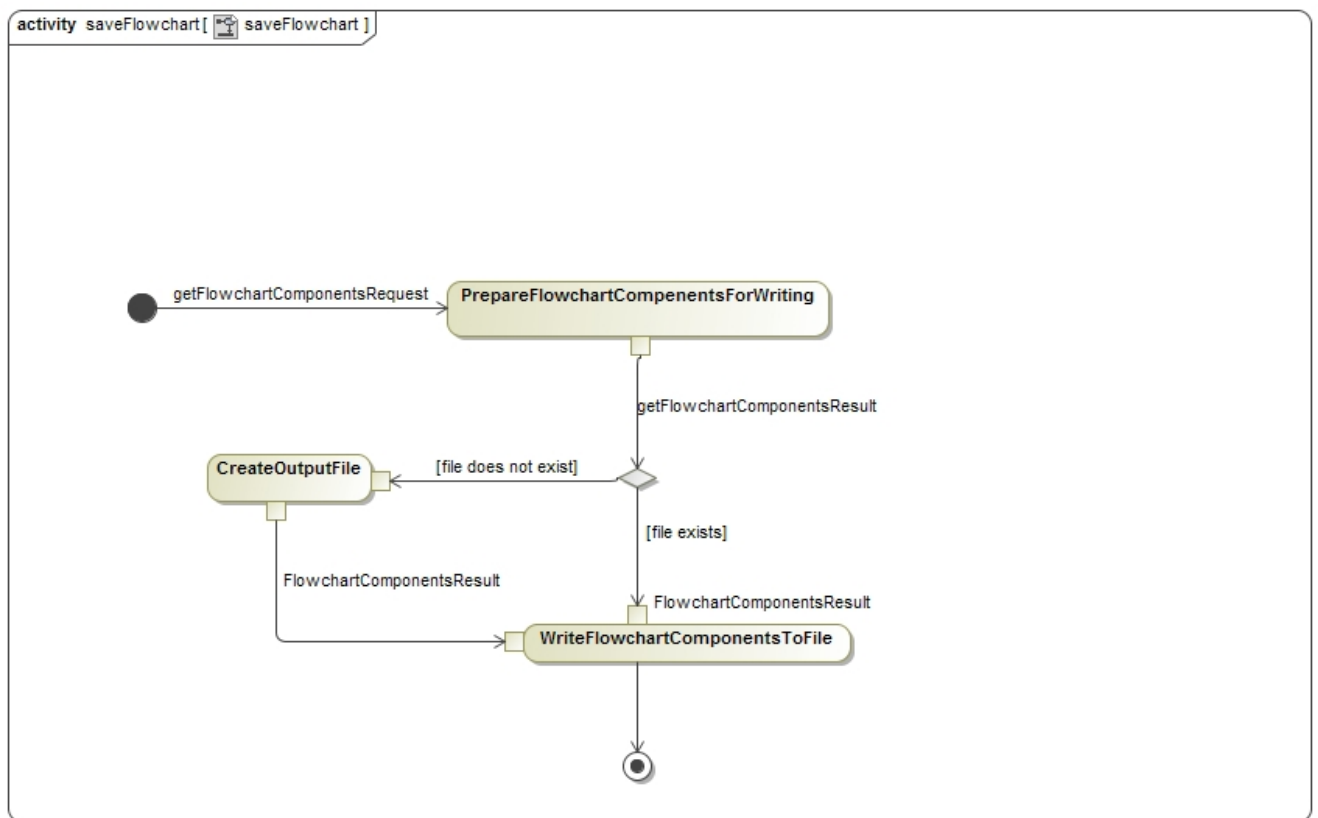
Pre Condition: Canvas is open

Post Condition: Flowchart has been saved to file

3.3.1 Use case diagram



3.3.2 Activity diagram



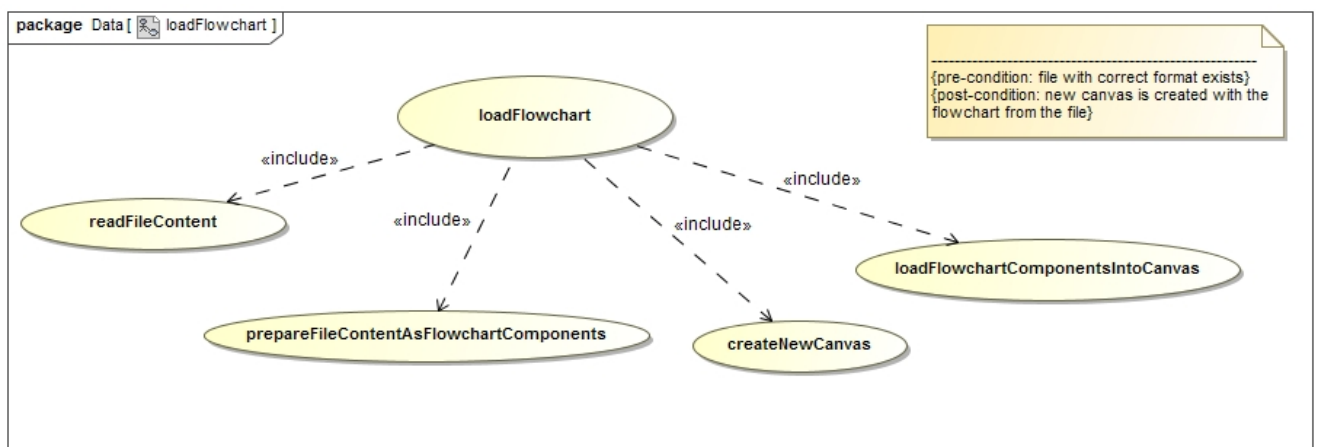
3.4 loadFlowchart

loadFlowchart: users load flowcharts from existing files. The file is editable, can be modified by the user.

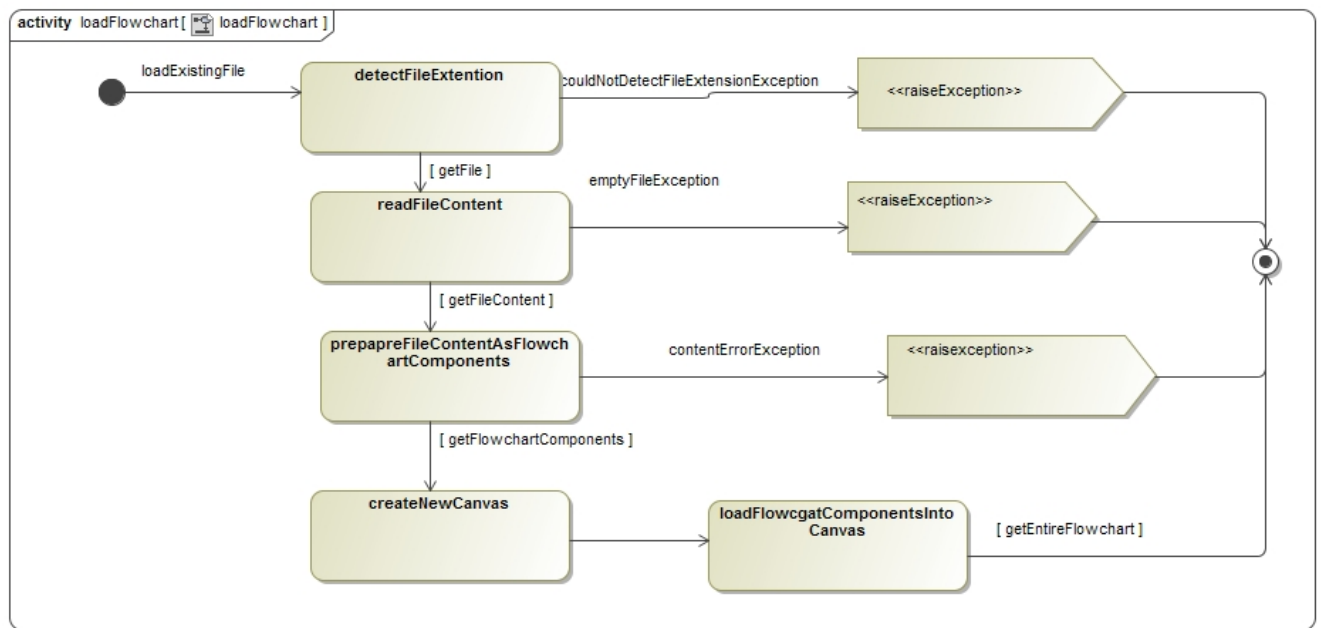
Pre Condition: file with correct extension already exists.

Post Condition: open the file and make it editable in the canvas element.

3.4.1 Use case diagram



3.4.2 Activity diagram



3.4.3 Domain mode

