# Tasks:

- 1. UML Diagram
  - Ensure the UML diagram is created and up to date.
- 2. Update README
  - Add information about Sprint 1 planning, the Sequence Diagram, the ARTIFACTS folder, and the Google Slides presentation.
- 3. Add Artifacts to the ARTIFACTS Folder
  - Organize all relevant design documents, diagrams, and additional project documentation in the artifacts folder.

# Links:

• Google Slides Presentation: Sprint 1 Presentation

# Sequence Diagram Code Below

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title WARP Diagram

actor user

user->Warp: main(new String[]{"gui", "ra"})
activate Warp

Warp->Warp:visualize(workLoad = warp, choice = SystemChoices.RELIABILITIES) activate Warp

Warp->VisualizationFactory: viz = createVisualization(workLoad, outputDirectory = outputSubDirectory, choice) activate VisualizationFactory

VisualizationFactory->VisualizationImplementation: viz = new VisualizationImplementation(warp = workLoad, outputDirectory, choice) activate VisualizationImplementation

VisualizationImplementation->FileManager: fm = new FileManager() activate FileManager FileManager-->VisualizationImplementation: FileManager instance deactivate FileManager

VisualizationImplementation->WarpInterface: workLoad = warp.toWorkLoad() activate WarpInterface

note right of WarpInterface: TODO

WarpInterface-->VisualizationImplementation: WorkLoad instance

deactivate WarpInterface

VisualizationImplementation->WorkLoadDescription: inputFileName = workLoad.getInputFileName() activate WorkLoadDescription
WorkLoadDescription--->VisualizationImplementation: inputFileName deactivate WorkLoadDescription

VisualizationImplementation->VisualizationImplementation: fileNameTemplate = createFileNameTemplate(outputDirectory) activate VisualizationImplementation

VisualizationImplementation->FileManager: workingDirectory = fm.getBaseDirectory() activate FileManager
FileManager-->VisualizationImplementation: baseDirectory deactivate FileManager

VisualizationImplementation->FileManager: newDirectory = fm.createDirectory(directory = workingDirectory, subDirectory = outputDirectory) activate FileManager

alt subDirectory.startsWith("/")

FileManager->FileManager: newDirectory = subDirectory

else

FileManager->FileManager: newDirectory = directory + File.separator + subDirectory

end

FileManager->FileManager: path = Paths.get(newDirectory) FileManager->FileManager: Files.createDirectories(path)

opt verbose

FileManager->FileManager: System.out.println("Directory " + newDirectory + " is created!")

end

FileManager-->VisualizationImplementation: newDirectory deactivate FileManager

alt inputFileName.contains("/")

VisualizationImplementation->VisualizationImplementation: index = inputFileName.lastIndexOf("/") + 1

VisualizationImplementation->VisualizationImplementation: fileNameTemplate = newDirectory + File.separator + inputFileName.substring(index)

else

VisualizationImplementation->VisualizationImplementation: fileNameTemplate = newDirectory + File.separator + inputFileName; end

VisualizationImplementation--->VisualizationImplementation: fileNameTemplate deactivate VisualizationImplementation

VisualizationImplementation->ReliabilityVisualization: obj = new ReliabilityVisualization(warp) activate ReliabilityVisualization

ReliabilityVisualization: ReliabilityVisualization: this.warp = warp

ReliabilityVisualization->FileManager: fm = new FileManager() activate FileManager FileManager FileManager-->ReliabilityVisualization: FileManager instance deactivate FileManager

ReliabilityVisualization->VisualizationObject: super(fm, warp, suffix = SOURCE\_SUFFIX) activate VisualizationObject

VisualizationObject->VisualizationObject: this.fm = fm

VisualizationObject->WorkLoad: m = workLoad.getMinPacketReceptionRate() activate WorkLoad
WorkLoad-->VisualizationObject: minPacketReceptionRate
deactivate WorkLoad

VisualizationObject->WorkLoad: e2e = workLoad.getE2e() activate WorkLoad
WorkLoad--->VisualizationObject: e2e
deactivate WorkLoad

VisualizationObject->VisualizationObject: nameExtension = String.format("-%sM-%sE2E", String.valueOf(m), String.valueOf(e2e))

VisualizationObject->VisualizationObject: this.suffix = suffix VisualizationObject->VisualizationObject: visualizationData = null

VisualizationObject-->ReliabilityVisualization: VisualizationObject instance deactivate VisualizationObject

ReliabilityVisualization->WarpInterface: ra = warp.toReliabilityAnalysis() activate WarpInterface

note left of WarpInterface: TODO

WarpInterface-->ReliabilityVisualization: ReliabilityAnalysis instance

deactivate WarpInterface

ReliabilityVisualization--->VisualizationImplementation: ReliabilityVisualization instance deactivate ReliabilityVisualization

VisualizationImplementation->VisualizationImplementation: createVisualization(obj) activate VisualizationImplementation

VisualizationImplementation->ReliabilityVisualization: visualization = obj.visualization() activate ReliabilityVisualization

ReliabilityVisualization->VisualizationObject: visualization = super.visualization() activate VisualizationObject

VisualizationObject->Description: content = new Description()

activate Description

Description->Description: super()

Description->VisualizationObject: Description instance

deactivate Description

VisualizationObject->ReliabilityVisualization: data = createVisualizationData()

activate ReliabilityVisualization

note right of Reliability Visualization: TODO

ReliabilityVisualization-->VisualizationObject: visualizationData

deactivate ReliabilityVisualization

VisualizationObject->ReliabilityVisualization: columnHeader = createColumnHeader()

activate ReliabilityVisualization

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: String[] instance

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: nodeString = String.join("\t", columnHeader) + "\\n"

VisualizationObject->VisualizationObject: content.add(nodeString)

loop rowlndex = 0; rowlndex < data.length; rowlndex++

VisualizationObject->VisualizationObject: row = data[rowIndex]

VisualizationObject->VisualizationObject: rowString = String.join("\t", row) + "\\n"

VisualizationObject->VisualizationObject: content.add(rowString)

end

VisualizationObject-->ReliabilityVisualization: content

## deactivate VisualizationObject

ReliabilityVisualization--->VisualizationImplementation: visualization deactivate ReliabilityVisualization

VisualizationImplementation->ReliabilityVisualization: fileContent = obj.fileVisualization() activate ReliabilityVisualization

ReliabilityVisualization->VisualizationObject: fileContent = super.fileVisualization() activate VisualizationObject

VisualizationObject->ReliabilityVisualization: fileContent = createHeader()

activate ReliabilityVisualization

ReliabilityVisualization->Description: header = new Description()

activate Description

Description->Description: super()

Description->ReliabilityVisualization: Description instance

deactivate Description

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: header

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: visualization = visualization()

activate VisualizationObject

VisualizationObject->Description: content = new Description()

activate Description

Description->Description: super()

Description->VisualizationObject: Description instance

deactivate Description

VisualizationObject->ReliabilityVisualization: data = createVisualizationData()

activate ReliabilityVisualization

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: visualizationData

deactivate ReliabilityVisualization

VisualizationObject->ReliabilityVisualization: columnHeader = createColumnHeader()

activate ReliabilityVisualization

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: String[] instance

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: nodeString = String.join("\t", columnHeader) + "\\n"

VisualizationObject->VisualizationObject: content.add(nodeString)

loop rowlndex = 0; rowlndex < data.length; rowlndex++

VisualizationObject->VisualizationObject: row = data[rowIndex]

VisualizationObject->VisualizationObject: rowString = String.join("\t", row) + "\\n"

VisualizationObject->VisualizationObject: content.add(rowString)

end

VisualizationObject:->VisualizationObject: content

deactivate VisualizationObject

VisualizationObject->VisualizationObject: fileContent.addAll(visualization)

VisualizationObject->ReliabilityVisualization: footer = createFooter()

activate ReliabilityVisualization

ReliabilityVisualization->Description: footer = new Description()

activate Description

Description->Description: super()

Description->ReliabilityVisualization: Description instance

deactivate Description

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: footer

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: fileContent.addAll(footer)

VisualizationObject-->ReliabilityVisualization: fileContent

deactivate VisualizationObject

ReliabilityVisualization-->VisualizationImplementation: fileContent

deactivate ReliabilityVisualization

VisualizationImplementation->ReliabilityVisualization: fileName =

obj.createFile(fileNameTemplate)

activate ReliabilityVisualization

ReliabilityVisualization->VisualizationObject: fileString = super.createFile(fileNameTemplate,

nameExtension, suffix)

activate VisualizationObject

VisualizationObject->FileManager: fileString = fm.createFile(file = fileNameTemplate,

nameExtension, suffix)

activate FileManager

FileManager->FileManager: suffixIndex = file.lastIndexOf('.')

FileManager->FileManager: fileString = file

opt suffixIndex > 0

FileManager->FileManager: fileString = file.substring(0, suffixIndex)

end

FileManager->FileManager: fileString = fileString + nameExtension + suffix

opt verbose

FileManager: System.out.println("File " + fileString + " is created!")

end

FileManager-->VisualizationObject:

deactivate FileManager

VisualizationObject-->ReliabilityVisualization: fileString

deactivate VisualizationObject

ReliabilityVisualization-->VisualizationImplementation: fileString

deactivate ReliabilityVisualization

VisualizationImplementation->VisualizationImplementation: visualizationObject = obj

deactivate VisualizationImplementation

VisualizationImplementation-->VisualizationFactory: VisualizationImplementation instance

deactivate VisualizationImplementation

VisualizationFactory-->Warp: viz deactivate VisualizationFactory

opt verbose

Warp->VisualizationImplementation: vizString = viz.toString()

activate VisualizationImplementation

VisualizationImplementation->Description: vizString = visualization.toString()

activate Description

Description->Description: sb = new StringBuffer()

loop row: this

Description->Description: sb.append(row)

end

Description-->VisualizationImplementation: sb.toString()

## deactivate Description

VisualizationImplementation-->Warp: vizString deactivate VisualizationImplementation

Warp->Warp: System.out.println(vizString)

end

Warp->VisualizationImplementation: viz.toFile()

activate VisualizationImplementation

VisualizationImplementation->Description: fileString = fileContent.toString()

activate Description

Description->Description: sb = new StringBuffer()

loop row: this

Description->Description: sb.append(row)

end

Description-->VisualizationImplementation: sb.toString()

deactivate Description

VisualizationImplementation->FileManager: fm.writeFile(file = fileName, fileContents = fileString)

activate FileManager

FileManager->FileManager: fileName = Path.of(file)

FileManager->FileManager: Files.writeString(fileName, fileContents)

deactivate FileManager

deactivate VisualizationImplementation

Warp->VisualizationImplementation: viz.toDisplay()

activate VisualizationImplementation

VisualizationImplementation->ReliabilityAnalysis: window =

visualizationObject.displayVisualization()

activate ReliabilityAnalysis

note right of ReliabilityAnalysis: TODO

ReliabilityAnalysis-->VisualizationImplementation: GuiVisualization instance

deactivate ReliabilityAnalysis

VisualizationImplementation->GuiVisualization: window.setVisible()

activate GuiVisualization

GuiVisualization->GuiVisualization: frame.setVisible(true)

deactivate GuiVisualization

deactivate VisualizationImplementation

deactivate Warp

deactivate Warp

### **README:**

##CS 2820 Sprint1 -

#### ##Jeff Bates

- responsible for writing and updating the README.md file, outlining your high-level plan and status.

# ##Cooper Fort

- Focus on creating the UML Sequence Diagram that shows the program flow starting from the Warp processing the 'ra' option
- Use sequencediagram.org to create the diagram.
- Ensure that the diagram clearly shows the sequence of interactions between program components.

### ##Colin Miller

- Worked closely with the sequence diagram designer to understand and implement the program logic for processing the 'ra' option in the Warp program.
- Assisted in writing pseudocode snippets for testing and implementing the 'ra' option.
- Document methods and flow in the README documents as needed.

#### ##Yash Bandla

- Write how the project will be tested and documented.
- Make sure the plan is clear.

### ##Graham Besser

- Make a class diagram and a project plan that lists tasks in order
- Describes key methods for the Visualization class

## ##CS 2820 Sprint 2

- -Updating ReliabilityVisualization code to be fully implemented
- -Updating WARP Diagram to show changes to ReliabilityVisualization
- -Adding JUnit Test to ensure stability of Reliability Visualization
- -Adding JavaDoc comments to update documentation for functions and classes

#### ##Jeff Bates

- -Created JUnit Tests to test edge cases for all the methods in ReliabilityVisualization to ensure stability
- Tests for the following methods were created:

# ##Cooper Fort

- -Updated sequencediagram.org with the new methods and added the diagram to ARTIFACTS folder
- -Method calls that were updated: ReliabilityVisualization.getReliabilities, WorkLoad.getFlowNamesInPriorityOrder, WorkLoad.getNodesInFlow, createHeader, createColumnHeader, createVisualizationData, and saveVisualization

#### ##Colin Miller

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#### ##Yash Bandla

- -Responsible for updating the README.md file with high-level plans for updating ReliabilityVisualization with working code
- -Clearly outlined everyone's tasks and explained all artifacts

#### ##Graham Besser

-Created JavaDoc comments and updated documentation files to show each method's function and parameters in a high level manner

#### ##ARTIFACTS

- -Updated CS2820\_Project ToDo with Sprint 2 tasks that need to be completed by every team member
- -Created Sprint 2.pdf to show plans for staying organized, how we will complete every task, and modifications to UML Sequence/Model Diagrams and ReliabilityVisualization code
- -Created a new WARP Sequence Diagram (titled WARP Diagram V2.jpg) that shows updated flow of all code (post ReliabilityVisualization code changes) in WARP codebase

## Sprint 2 Sequence Diagram Code

title WARP Diagram

actor user

user->Warp: main(new String[]{"gui", "ra"})
activate Warp

Warp->Warp:visualize(workLoad = warp, choice = SystemChoices.RELIABILITIES) activate Warp

Warp->VisualizationFactory: viz = createVisualization(workLoad, outputDirectory = outputSubDirectory, choice) activate VisualizationFactory

VisualizationFactory->VisualizationImplementation: viz = new VisualizationImplementation(warp = workLoad, outputDirectory, choice) activate VisualizationImplementation

VisualizationImplementation->FileManager: fm = new FileManager() activate FileManager FileManager-->VisualizationImplementation: FileManager instance deactivate FileManager

VisualizationImplementation->WarpInterface: workLoad = warp.toWorkLoad() activate WarpInterface note right of WarpInterface: TODO WarpInterface-->VisualizationImplementation: WorkLoad instance deactivate WarpInterface

VisualizationImplementation->WorkLoadDescription: inputFileName = workLoad.getInputFileName() activate WorkLoadDescription
WorkLoadDescription-->VisualizationImplementation: inputFileName deactivate WorkLoadDescription

VisualizationImplementation->VisualizationImplementation: fileNameTemplate = createFileNameTemplate(outputDirectory) activate VisualizationImplementation

VisualizationImplementation->FileManager: workingDirectory = fm.getBaseDirectory() activate FileManager FileManager-->VisualizationImplementation: baseDirectory

### deactivate FileManager

VisualizationImplementation->FileManager: newDirectory = fm.createDirectory(directory = workingDirectory, subDirectory = outputDirectory) activate FileManager

alt subDirectory.startsWith("/")

FileManager->FileManager: newDirectory = subDirectory

else

FileManager: newDirectory = directory + File.separator + subDirectory

end

FileManager->FileManager: path = Paths.get(newDirectory)
FileManager->FileManager: Files.createDirectories(path)

opt verbose

FileManager->FileManager: System.out.println("Directory " + newDirectory + " is created!")

end

FileManager-->VisualizationImplementation: newDirectory deactivate FileManager

alt inputFileName.contains("/")

VisualizationImplementation->VisualizationImplementation: index = inputFileName.lastIndexOf("/") + 1

VisualizationImplementation->VisualizationImplementation: fileNameTemplate = newDirectory

+ File.separator + inputFileName.substring(index)

else

VisualizationImplementation->VisualizationImplementation: fileNameTemplate = newDirectory

+ File.separator + inputFileName;

end

VisualizationImplementation--->VisualizationImplementation: fileNameTemplate deactivate VisualizationImplementation

VisualizationImplementation->ReliabilityVisualization: obj = new ReliabilityVisualization(warp) activate ReliabilityVisualization

ReliabilityVisualization->ReliabilityAnalysis: reliabilityData = getReliabilities(warp.toProgram()) activate ReliabilityAnalysis

 $Reliability Analysis --> Reliability Visualization: \ Reliability \ data$ 

deactivate ReliabilityAnalysis

ReliabilityVisualization->WorkLoad: flows = getFlowNamesInPriorityOrder()

activate WorkLoad

WorkLoad-->ReliabilityVisualization: Flow names in priority order

deactivate WorkLoad

ReliabilityVisualization->WorkLoad: nodes = getNodesInFlow(flow)

activate WorkLoad

WorkLoad-->ReliabilityVisualization: Nodes in flow

deactivate WorkLoad

ReliabilityVisualization->FileManager: saveVisualization(fileContent)

activate FileManager

FileManager-->ReliabilityVisualization: File saved

deactivate FileManager

ReliabilityVisualization->GuiVisualization: displayVisualization()

activate GuiVisualization

GuiVisualization-->ReliabilityVisualization: GUI displayed

deactivate GuiVisualization

ReliabilityVisualization->FileManager: fileContent = createHeader()

activate FileManager

FileManager-->ReliabilityVisualization: Header created

deactivate FileManager

ReliabilityVisualization->FileManager: columnHeader = createColumnHeader()

activate FileManager

FileManager-->ReliabilityVisualization: Column header created

deactivate FileManager

ReliabilityVisualization->FileManager: visualizationData = createVisualizationData()

activate FileManager

FileManager-->ReliabilityVisualization: Visualization data created

deactivate FileManager

ReliabilityVisualization-->VisualizationImplementation: ReliabilityVisualization instance

deactivate ReliabilityVisualization

VisualizationImplementation->VisualizationImplementation: createVisualization(obj)

activate VisualizationImplementation

VisualizationImplementation->ReliabilityVisualization: visualization = obj.visualization()

activate ReliabilityVisualization

ReliabilityVisualization->VisualizationObject: visualization = super.visualization()

## activate VisualizationObject

VisualizationObject->Description: content = new Description()

activate Description

Description->Description: super()

Description->VisualizationObject: Description instance

deactivate Description

VisualizationObject->ReliabilityVisualization: data = createVisualizationData()

activate ReliabilityVisualization

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: visualizationData

deactivate ReliabilityVisualization

VisualizationObject->ReliabilityVisualization: columnHeader = createColumnHeader()

activate ReliabilityVisualization

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: String[] instance

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: nodeString = String.join("\t", columnHeader) + "\\n"

VisualizationObject->VisualizationObject: content.add(nodeString)

loop rowIndex = 0; rowIndex < data.length; rowIndex++

VisualizationObject->VisualizationObject: row = data[rowIndex]

VisualizationObject->VisualizationObject: rowString = String.join("\t", row) + "\\n"

VisualizationObject->VisualizationObject: content.add(rowString)

end

VisualizationObject-->ReliabilityVisualization: content

deactivate VisualizationObject

ReliabilityVisualization-->VisualizationImplementation: visualization

deactivate ReliabilityVisualization

VisualizationImplementation->ReliabilityVisualization: fileContent = obj.fileVisualization()

activate ReliabilityVisualization

ReliabilityVisualization->VisualizationObject: fileContent = super.fileVisualization()

activate VisualizationObject

VisualizationObject->ReliabilityVisualization: fileContent = createHeader()

activate ReliabilityVisualization

ReliabilityVisualization->Description: header = new Description()

activate Description

Description->Description: super()

Description->ReliabilityVisualization: Description instance

deactivate Description

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: header

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: visualization = visualization()

activate VisualizationObject

VisualizationObject->Description: content = new Description()

activate Description

Description->Description: super()

Description->VisualizationObject: Description instance

deactivate Description

VisualizationObject->ReliabilityVisualization: data = createVisualizationData()

activate ReliabilityVisualization

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: visualizationData

deactivate ReliabilityVisualization

VisualizationObject->ReliabilityVisualization: columnHeader = createColumnHeader()

activate ReliabilityVisualization

note right of Reliability Visualization: TODO

ReliabilityVisualization-->VisualizationObject: String[] instance

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: nodeString = String.join("\t", columnHeader) + "\\n"

VisualizationObject->VisualizationObject: content.add(nodeString)

loop rowlndex = 0; rowlndex < data.length; rowlndex++

VisualizationObject->VisualizationObject: row = data[rowIndex]

VisualizationObject->VisualizationObject: rowString = String.join("\t", row) + "\\n"

VisualizationObject->VisualizationObject: content.add(rowString)

end

VisualizationObject:->VisualizationObject: content

deactivate VisualizationObject

VisualizationObject->VisualizationObject: fileContent.addAll(visualization)

VisualizationObject->ReliabilityVisualization: footer = createFooter()

activate ReliabilityVisualization

ReliabilityVisualization->Description: footer = new Description()

activate Description

Description->Description: super()

Description->ReliabilityVisualization: Description instance

deactivate Description

note right of ReliabilityVisualization: TODO

ReliabilityVisualization-->VisualizationObject: footer

deactivate ReliabilityVisualization

VisualizationObject->VisualizationObject: fileContent.addAll(footer)

VisualizationObject-->ReliabilityVisualization: fileContent

deactivate VisualizationObject

ReliabilityVisualization-->VisualizationImplementation: fileContent

deactivate ReliabilityVisualization

VisualizationImplementation->ReliabilityVisualization: fileName =

obj.createFile(fileNameTemplate)

activate ReliabilityVisualization

ReliabilityVisualization->VisualizationObject: fileString = super.createFile(fileNameTemplate,

nameExtension, suffix)

activate VisualizationObject

VisualizationObject->FileManager: fileString = fm.createFile(file = fileNameTemplate,

nameExtension, suffix) activate FileManager

FileManager->FileManager: suffixIndex = file.lastIndexOf('.')

FileManager->FileManager: fileString = file

opt suffixIndex > 0

FileManager->FileManager: fileString = file.substring(0, suffixIndex)

end

FileManager->FileManager: fileString = fileString + nameExtension + suffix

opt verbose

FileManager: System.out.println("File " + fileString + " is created!")

end

FileManager-->VisualizationObject:

## deactivate FileManager

VisualizationObject-->ReliabilityVisualization: fileString deactivate VisualizationObject

ReliabilityVisualization-->VisualizationImplementation: fileString deactivate ReliabilityVisualization

VisualizationImplementation->VisualizationImplementation: visualizationObject = obj deactivate VisualizationImplementation

VisualizationImplementation-->VisualizationFactory: VisualizationImplementation instance deactivate VisualizationImplementation

VisualizationFactory-->Warp: viz deactivate VisualizationFactory

opt verbose

Warp->VisualizationImplementation: vizString = viz.toString() activate VisualizationImplementation

VisualizationImplementation->Description: vizString = visualization.toString() activate Description

Description->Description: sb = new StringBuffer()

loop row: this

Description->Description: sb.append(row)

end

 $Description \hbox{---} \verb|Visualization| Implementation: sb.toString()$ 

deactivate Description

VisualizationImplementation-->Warp: vizString deactivate VisualizationImplementation

Warp->Warp: System.out.println(vizString)

end

Warp->VisualizationImplementation: viz.toFile()

activate VisualizationImplementation

VisualizationImplementation->Description: fileString = fileContent.toString() activate Description

Description->Description: sb = new StringBuffer()

loop row: this

Description->Description: sb.append(row)

end

Description-->VisualizationImplementation: sb.toString()

deactivate Description

VisualizationImplementation->FileManager: fm.writeFile(file = fileName, fileContents = fileString)

activate FileManager

FileManager->FileManager: fileName = Path.of(file)

FileManager->FileManager: Files.writeString(fileName, fileContents)

deactivate FileManager

deactivate VisualizationImplementation

Warp->VisualizationImplementation: viz.toDisplay()

activate VisualizationImplementation

VisualizationImplementation->ReliabilityAnalysis: window =

visualizationObject.displayVisualization()

activate ReliabilityAnalysis

note right of ReliabilityAnalysis: TODO

ReliabilityAnalysis-->VisualizationImplementation: GuiVisualization instance

deactivate ReliabilityAnalysis

VisualizationImplementation->GuiVisualization: window.setVisible()

activate GuiVisualization

GuiVisualization->GuiVisualization: frame.setVisible(true)

deactivate GuiVisualization

deactivate VisualizationImplementation

deactivate Warp

deactivate Warp