

SALES-COMISSION-APP

OVERALL REPORT

VERSION <1.0>

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INTRODUCTION

Here is a list of tasks that we will deal with in this project, based on the packages:

data:

- 1.Remove Coat, Shirt, Skirt, Trouser classes.
- 2.1.Rename Agent Class.
- 2.2.Remove Duplicate Code in Agent Class.

2.3. Replace deprecated data structure.

3.1 Change name of FileAppender, FileAppenderTXT, FileAppenderXML.

3.2. Move classes that perform IO operations in the right packages.

4. Encapsulate the primitive data of FileAppender class.

5. Extract fileAppenderTXT, fileAppenderXML to a template method.

input:

1. Replace algorithm of TXTInput class with a simple and better one.

2. Extract TXTInput and XMLInput classes in a template method.

gui:

1. Refactor gui in a way that the user would be able to save a report in a name of his choice.

2. Rename InputWindow, SelectionWindow, ResultWindow class.

3.1. Improve conditional states of addReceiptButtonPressed().

3.2. Remove chains of method calls and reduce the size of SelectionWindowClass.

3.3. Remove if else statements from okButtonPressed().

output:

1.1. Rename Report, TxtReport, XMLReport classes

1.2.Extract algorithm of saveFile() in a template.

extensions:

1.1. Provide input to the application via an html file.

1.2.Store a report for a sales representative in an html file

REFACTORED DESIGN

USE CASES

insertFromHTML

Use case ID	UC1
Actors	The User.
Pre conditions	The user must upload a HTML file.
Main flow of events	1. The use case starts when the user upload the requested file. 2. The system displays the receipt data in the screen.
Alternative flow 1	1.The user uploads a wrong format file. 2.The system displays an error message.
Post conditions	-

insertFromTXT

Use case ID	UC2
Actors	The User.
Pre conditions	The user must upload a TXT file.
Main flow of events	<ol style="list-style-type: none">1. The use case starts when the user upload the requested file.2. The system displays the receipt data in the screen.
Alternative flow 1	<ol style="list-style-type: none">1.The user uploads a wrong format file.2.The system displays an error message.
Post conditions	-

insertFromXML

Use case ID	UC3
Actors	The User.
Pre conditions	The user must upload a XML file.
Main flow of events	<ol style="list-style-type: none">1. The use case starts when the user upload the requested file.2. The system displays the receipt data in the screen.
Alternative flow 1	<ol style="list-style-type: none">1.The user uploads a wrong format file.

	2.The system displays an error message.
Post conditions	-

SelectAgent

Use case ID	UC4
Actors	The User.
Pre conditions	The user needs to press the representative of his choice on the screen.
Main flow of events	<ol style="list-style-type: none"> 1. The use case starts when the user request a list of representatives to choose. 2. The system displays a list of representatives. 3. The user selects the representative of their choice. 4.The system displays a short report of the chosen representative's data.
Post conditions	-

UpdateResults

Use case ID	UC5
Actors	The User.
Pre conditions	The user must have choose a representative.
Main flow of	<ol style="list-style-type: none"> 1. The use case starts when the user demands the display of a general report for the representative of choice.

events	<ol style="list-style-type: none"> 2. The system demands data clarifications from the user. 3. The user selects the preferred data such as: <ol style="list-style-type: none"> 3.1. Total sales value. 3.2. Sales for every product category. 3.3. Sales based on specific product of the user's choice. 3.4. The commission that he is entitled to based on the total sales.
Post conditions	-

CreateReport

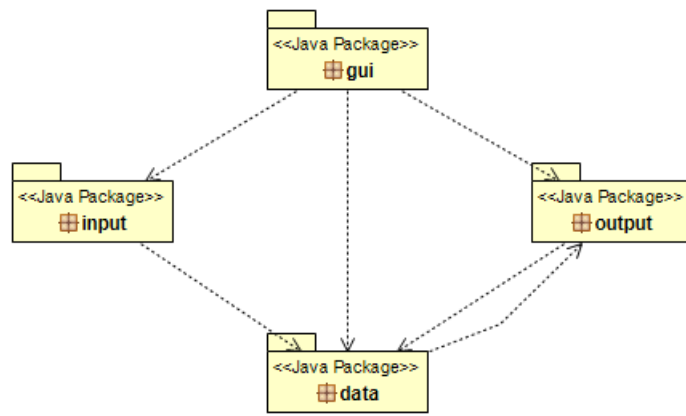
Use case ID	UC6
Actors	The User.
Pre conditions	The user must have choose a representative and must own a report full of the data of his choice.
Main flow of events	<ol style="list-style-type: none"> 1. The use case starts when the user demands the storage of the general report. 2. The system demands the format clarification. 3. The user selects the preferred format. 4. The system creates a report in the form of either TXT or XML.
Post conditions	

writeReceiptToFile

Use case ID	UC7
Actors	The User.
Pre conditions	The user must have choose a representative.
Main flow of events	<ol style="list-style-type: none"> 1. The use case starts when the user request to add a receipt in one of the representatives. 2. The system adds the requested receipt.
Alternative flow of events	<ol style="list-style-type: none"> 1.The user request to add a receipt in one of the representatives and the format of the info is wrong. 2.The systems throws an error in the screen.
Post Conditions	=

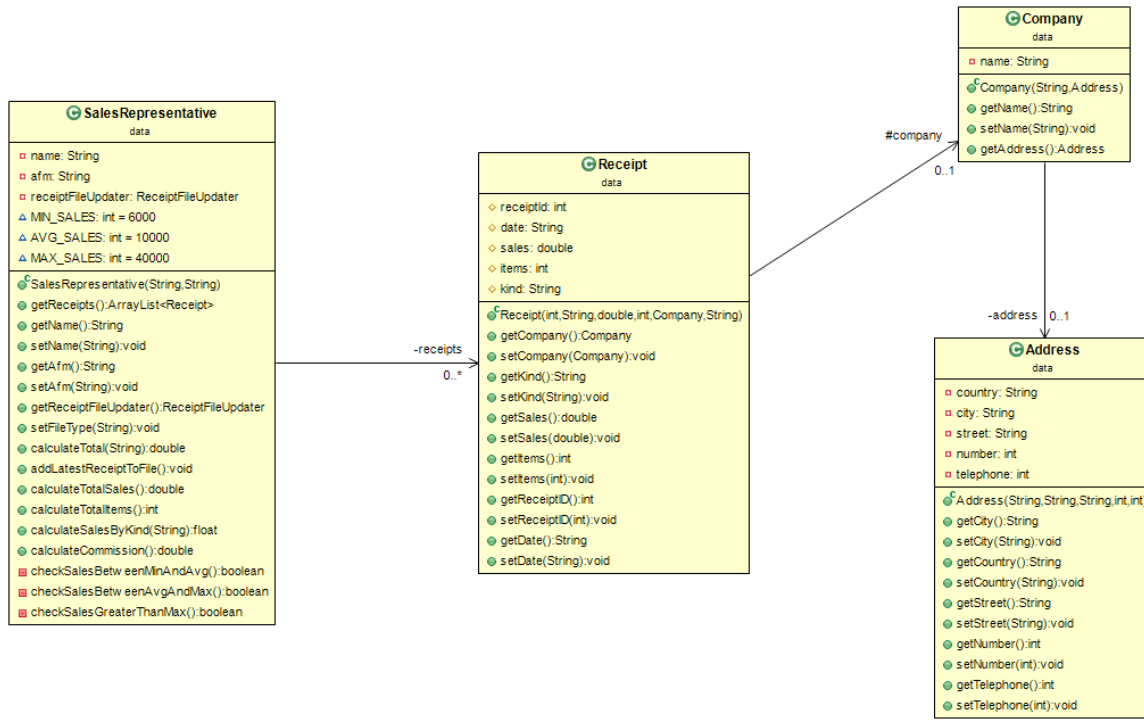
ARCHITECTURE

- **UML package diagram**

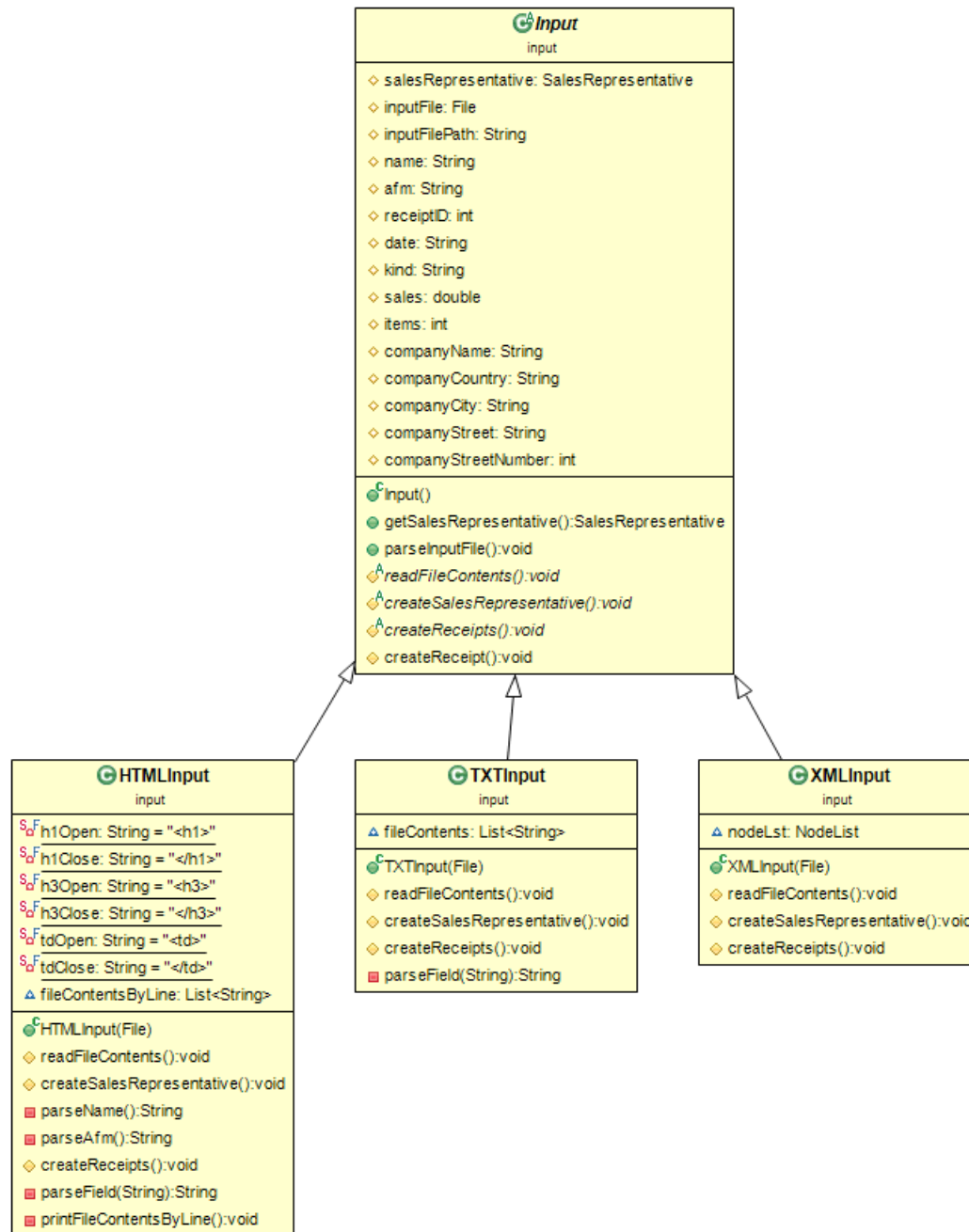


DETAILED DESIGN

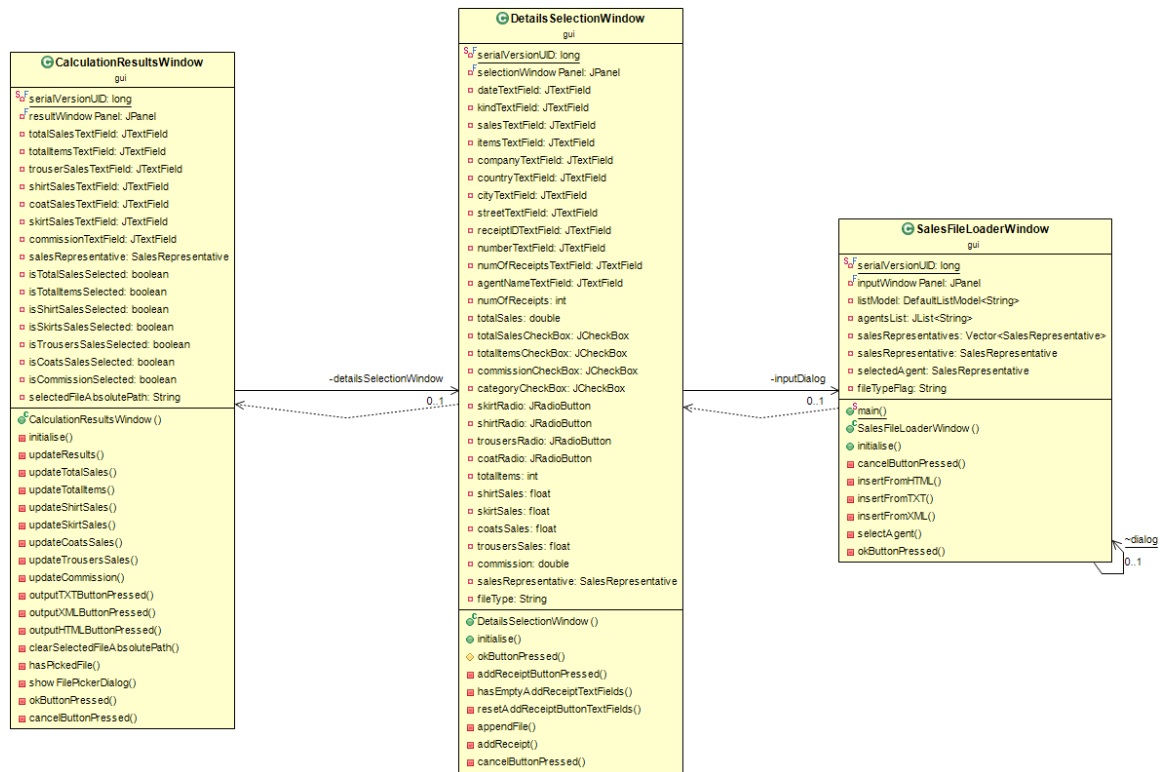
data:



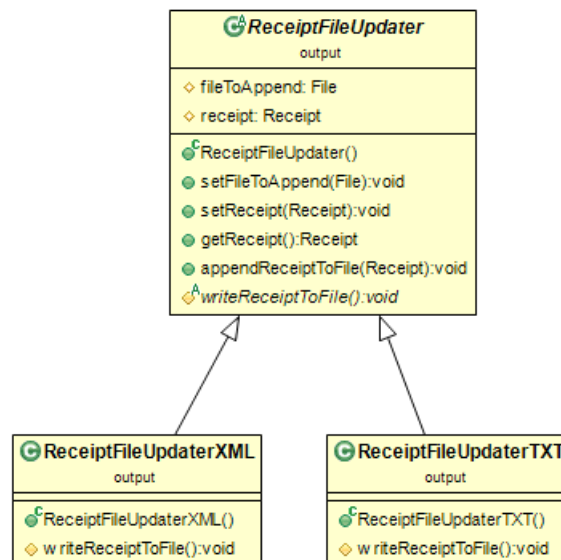
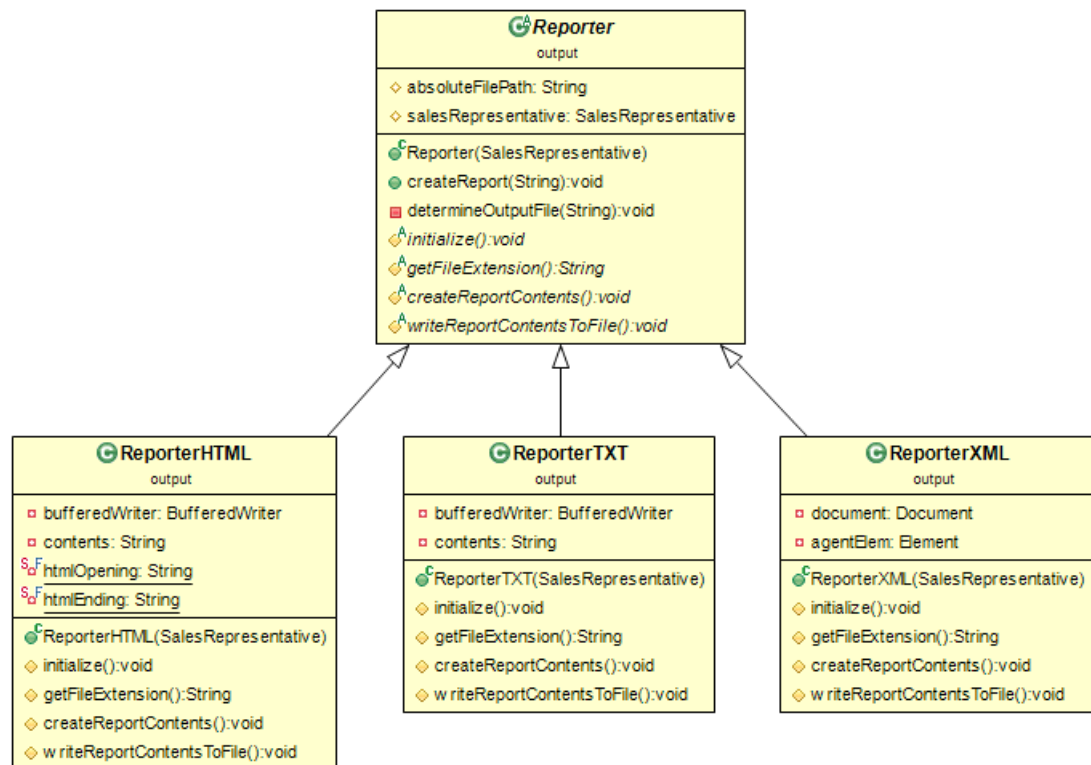
input:



gui:



output:



CLASSES RESPONSIBILITIES AND COLLABORATIONS (CRC CARDS)

data:

Class Name: Address	
Responsibilities	Collaborations
<ul style="list-style-type: none">Address class is responsible for:<ul style="list-style-type: none">Initializing country, city, street, number, telephone fields.Making getters and setters.	<ul style="list-style-type: none">Company() class in data packageDetailsSelectionWindow() class in gui package.Input() class in Input package.

Class Name: Company	
Responsibilities	Collaborations
<ul style="list-style-type: none">Company class is responsible for:<ul style="list-style-type: none">Initializing name, address fields.Making getters and setters.	<ul style="list-style-type: none">Company() class in data packageDetailsSelectionWindow() class in gui package.Input() class in Input package.

Class Name: Receipt

Responsibilities	Collaborations
<ul style="list-style-type: none"> Address class is responsible for: <ul style="list-style-type: none"> Initializing receiptId,date,sales, items, company, kind fields. Making getters and setters. 	<ul style="list-style-type: none"> SalesRepresentative() class in data package DetailsSelectionWindow() class in gui package. Input() class in Input package. ReceiptFileUpdater() class in Output package.

Class Name: SalesRepresentative	
Responsibilities	Collaborations
<ul style="list-style-type: none"> Address class is responsible for: <ul style="list-style-type: none"> Initializing name,afm fields. Making getters and setters. Having methods that calculate comission,sales by kind, total items, total sales, adds latest receipt to file. 	<ul style="list-style-type: none"> CalculationResultWindow() class in gui package. DetailSelectionWindow() class in gui package. SalesFileLoaderWindow() class in gui package. Input() class in input package. TXTInput() class in input package. XMLInput() class in input package.

	<ul style="list-style-type: none"> • HTMLInput() class in input package. • Reporter() class in output package. • ReporterTXT() class in output package. • ReporterXML() class in output package. • Reporter()HTML class in output package.
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gui:

Class Name: SalesFileLoaderWindow	
Responsibilities	Collaborations
<ul style="list-style-type: none"> • SalesFileLoaderWindow class is responsible for: <ul style="list-style-type: none"> • The window that appears when the project runs. • The buttons that appear in the screen and their operations. 	<ul style="list-style-type: none"> • DetailsSelectionWindow() class in gui package. • SalesFileLoaderWindow() class in gui package.

Class Name: DetailSelectionWindow	
Responsibilities	Collaborations
<ul style="list-style-type: none"> DetailSelectionWindow class is responsible for: <ul style="list-style-type: none"> The window that appears when the user presses the insert button of any format. The buttons that appear in the screen and their operations. 	<ul style="list-style-type: none"> CalculationResultWindow class in gui package. DetailsSelectionWindow() class in gui package. SalesFileLoaderWindow() class in gui package.

Class Name: CalculationResultWindow	
Responsibilities	Collaborations
<ul style="list-style-type: none"> CalculationResultWindow class is responsible for: <ul style="list-style-type: none"> The window that appears when the users selects a representative and he is requested to select the specific details about him. The buttons that appear in the screen and their operations. 	<ul style="list-style-type: none"> CalculationResultWindow class in gui package. DetailsSelectionWindow() class in gui package.

input:

Class Name: Input	
Responsibilities	Collaborations
<ul style="list-style-type: none">Input class is the basic class for a template pattern of HTMLInput, TXTInput, XMLInput is responsible for:<ul style="list-style-type: none">Making methods for the common algorithm of the template classes.Making methods for the parts of the code that are not common in template classes.	<ul style="list-style-type: none">TXTInput() class in input package.XMLInput() class in input package.HTMLInput() class in input package.

Class Name: HTMLInput	
Responsibilities	Collaborations
<ul style="list-style-type: none">HTMLInput class is class that extends Input and its responsible for:<ul style="list-style-type: none">Parsing data from a html file and show the details of the representative on the screen.	<ul style="list-style-type: none">SalesFileLoaderWindow() class in gui package.

Class Name: TXInput	
Responsibilities	Collaborations
<ul style="list-style-type: none"> TXInput class is class that extends Input and its responsible for: <ul style="list-style-type: none"> Parsing data from a txt file and show the details of the representative on the screen. 	<ul style="list-style-type: none"> SalesFileLoaderWindow() class in gui package.

Class Name: XMLInput	
Responsibilities	Collaborations
<ul style="list-style-type: none"> XMLInput class is class that extends Input and its responsible for: <ul style="list-style-type: none"> Parsing data from a xml file and show the details of the representative on the screen. 	<ul style="list-style-type: none"> SalesFileLoaderWindow() class in gui package.

output:

Class Name: ReceiptFileUpdater

Responsibilities	Collaborations
<ul style="list-style-type: none"> ReceiptFileUpdater class is the basic class for a template pattern of ReceiptFileUpaterTXT, ReceiptFileUpaterXML responsible for: <ul style="list-style-type: none"> Writing the Receipt contents to the file. 	<ul style="list-style-type: none"> SalesRepresentative() class in data package.

Class Name: ReceiptFileUpdaterTXT	
Responsibilities	Collaborations
<ul style="list-style-type: none"> ReceiptFileUpaterTXT class is class that extends ReceiptFileUpater and its responsible for: <ul style="list-style-type: none"> Writing the Receipt contents to the TXT file. 	<ul style="list-style-type: none"> SalesFileLoaderWindow() class in gui package.

Class Name: ReceiptFileUpdaterXML	
Responsibilities	Collaborations
<ul style="list-style-type: none"> ReceiptFileUpaterXML class is class that extends ReceiptFileUpater and its responsible for: <ul style="list-style-type: none"> Writing the Receipt contents 	<ul style="list-style-type: none"> SalesFileLoaderWindow() class in gui package.

to the XML file.	
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Class Name: Reporter	
Responsibilities	Collaborations
<ul style="list-style-type: none"> Reporter class is the basic class for a template pattern of HTMLInput, TXTInput, XMLInput is responsible for: <ul style="list-style-type: none"> Making methods for the common algorithm of the template classes. Making methods for the parts of the code that are not common in template classes. 	<ul style="list-style-type: none"> ReporterTXT() class in output package. ReporterXML() class in output package. ReporterInput() class in output package.

Class Name: ReporterHTML	
Responsibilities	Collaborations
<ul style="list-style-type: none"> ReporterHTML class is class that extends Reporter and its responsible for: <ul style="list-style-type: none"> Exporting the requested data to an html file report . 	<ul style="list-style-type: none"> CalculationResultWindow class in gui package.

Class Name: ReporterTXT	
Responsibilities	Collaborations
<ul style="list-style-type: none"> ReporterTXT class is class that extends Reporter and its responsible for: <ul style="list-style-type: none"> Exporting the requested data to an txt file report. 	<ul style="list-style-type: none"> CalculationResultWindow class in gui package.

Class Name: ReporterXML	
Responsibilities	Collaborations
<ul style="list-style-type: none"> ReporterXML class is class that extends Reporter and its responsible for: <ul style="list-style-type: none"> Exporting the requested data to an xml file report. 	<ul style="list-style-type: none"> CalculationResultWindow class in gui package.

****Note**** : Overall, many names of variables, methods and classes have been changed in the project. Many new methods that helped the code get more clear have been added and many getters and setters have been erased by parsing the requested data through objects.

We also added some test inside the project for the Input and Reporter.