

**CS251 – Software Engineering I**

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# Team

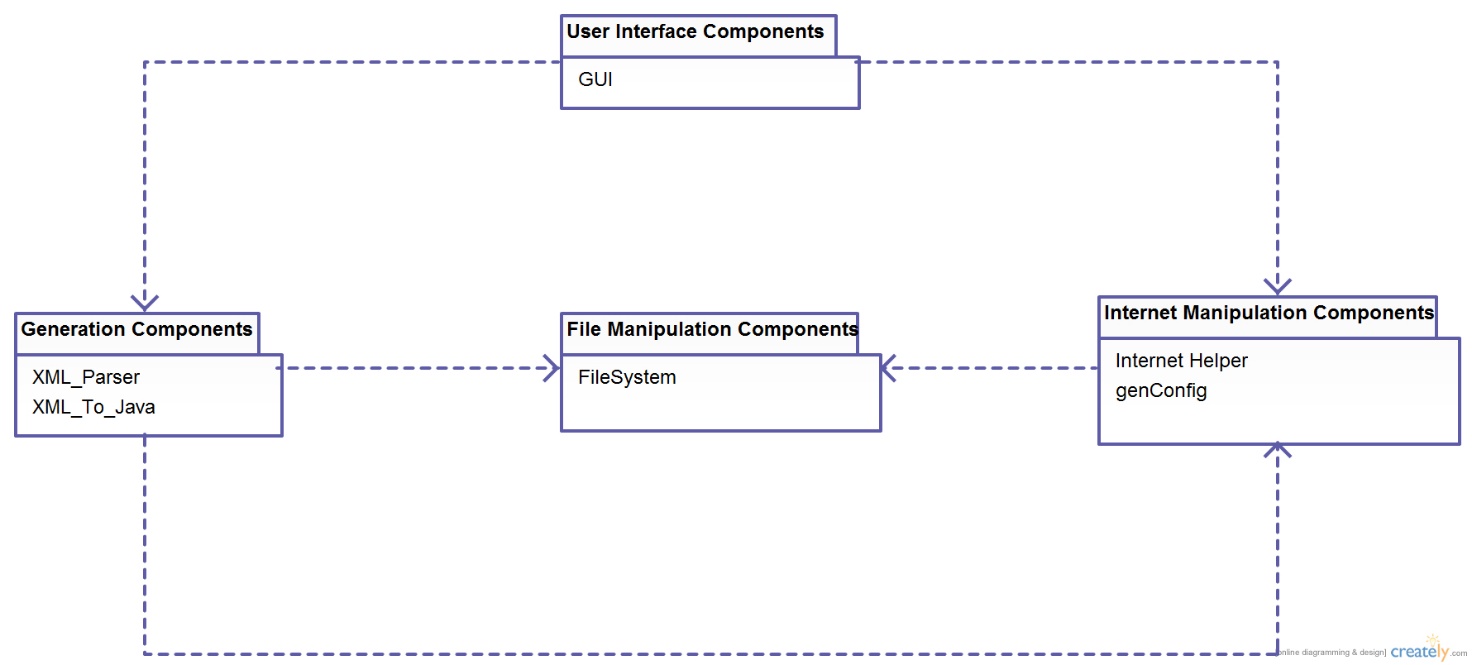
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# Document Purpose and Audience

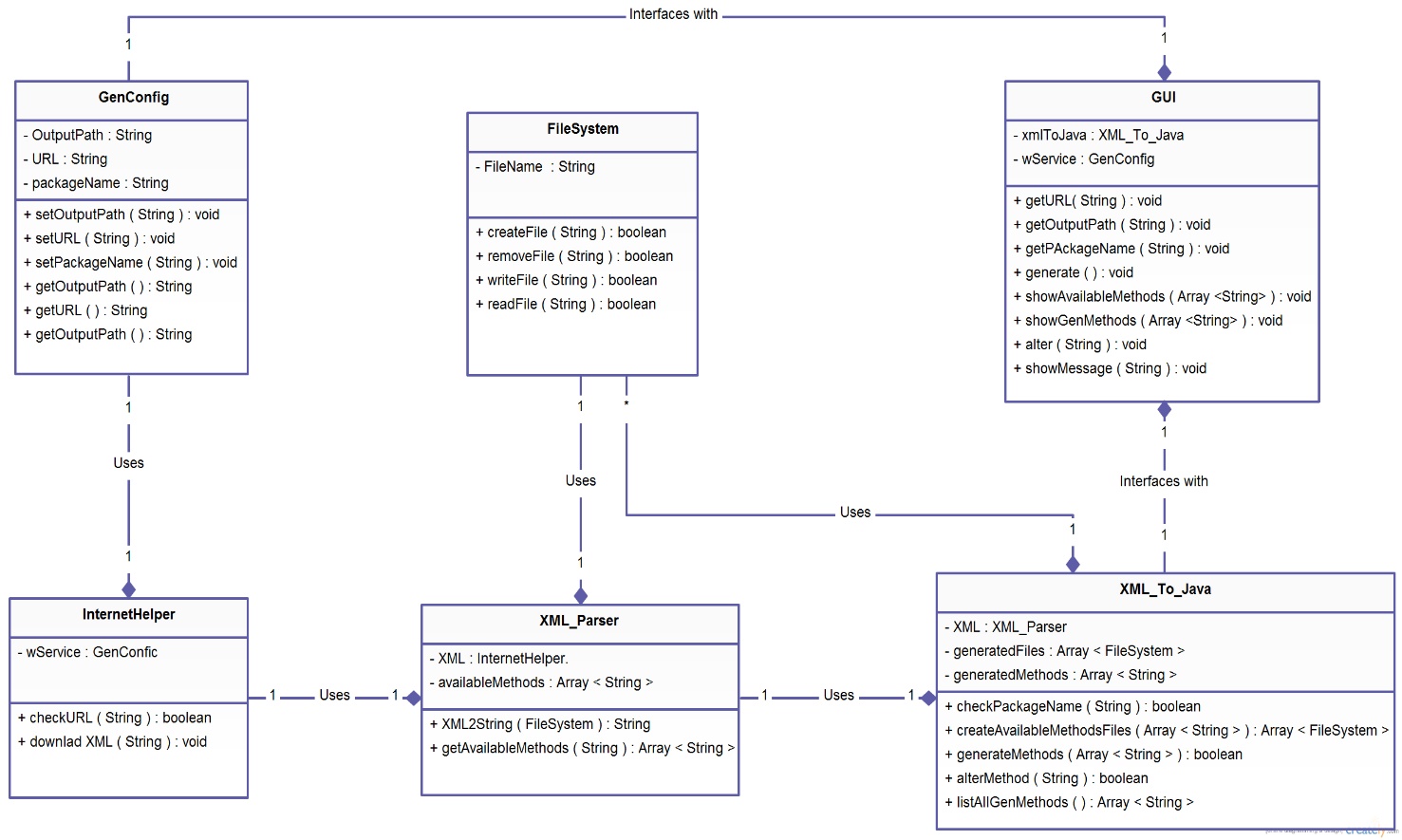
This Document include Class Diagrams, Sequence Diagrams and User Interface Design for WebService2Code Project. This document is for the system developers and system client ( SWE-1 TA ).

# System Models

## System Decomposition

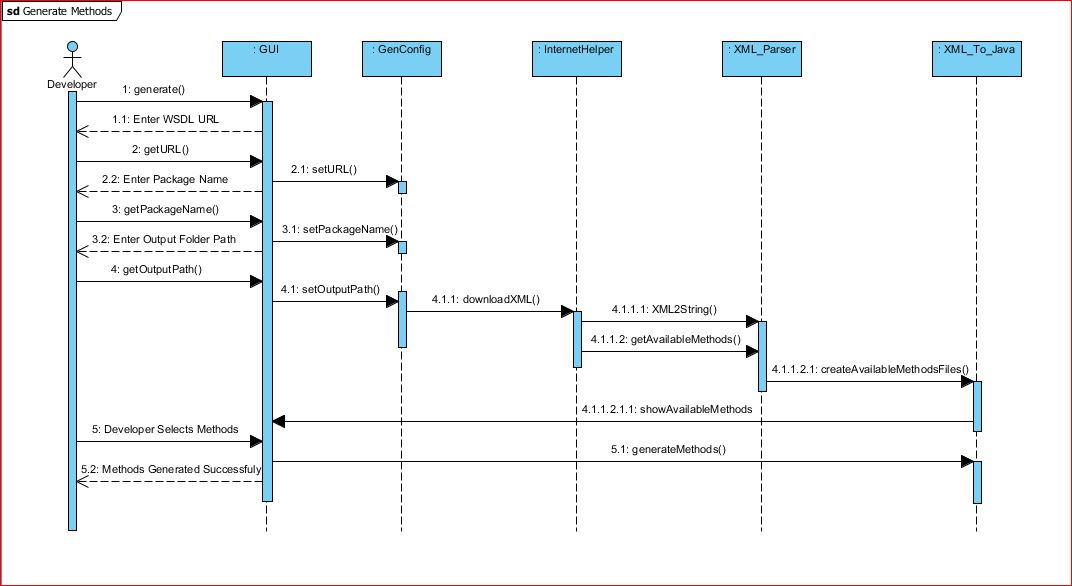
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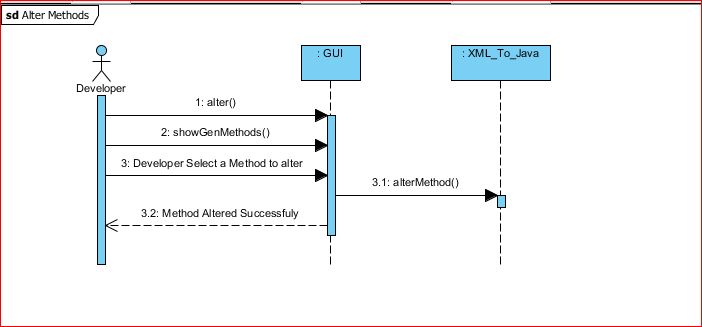
## Class diagrams



| **Class ID** | **Class Name** | **Description** |
| --- | --- | --- |
| 1 | GenConfig | Carries the information about the webservice. |
| 2 | XML\_Parser | Can parse the XML document to string and get avaialable methods that can be generated. |
| 3 | XML\_To\_Java | Generate methods, alter methods and checks package name. |
| 3 | GUI | Makes an interface with the developer. |
| 4 | InternetHelper | Downloads WSDL and checks URL. |
| 5 | FileSystem | Creates, removes, reads and writes to files. |

## Sequence diagrams

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| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| GUI | Generate methods & Alter methods. | alter , showGenMethod , getURL , getPackageName , getOutputPath , Generate , showAvailableMethods. |
| XML Parser | Generate methods & Alter methods. | alterMethod , checkPackageName , getAvailableMethods , generateMethods. |
| Internet System | Generate methods. | checkURL , downloadXML , XML2String |

## User Interface Design

### Screen 1 – Main Screen



* Button “Alter” : go to --> alter window
* Button “Generate” : go to -- > get URL window

### Screen 2 – Get URL Screen



* Button “Enter” : go to -- > get Package Name window
* Button “Back” : go to -- > get URL window

### Screen 3 – Get Package Name Screen



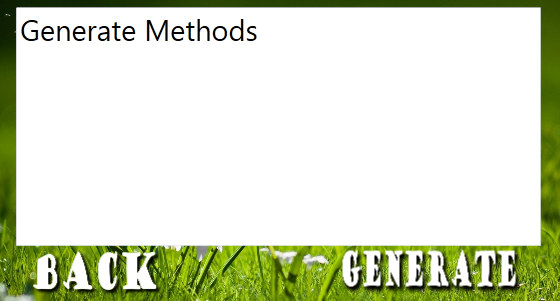
* Button “Enter” : go to -- > get Output Path window
* Button “Back” : go to -- > get Package Name window

### Screen 4 – Get Output Path Screen



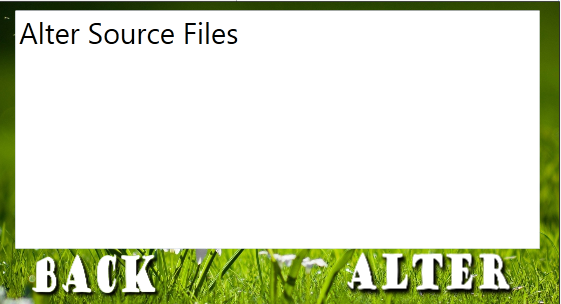
* Button “Enter” : go to -- > get Package Name window
* Button “Back” : go to -- > Generation window

### Screen 5 – Generation Screen



* Button “Enter” : go to -- > Main window
* Button “Back” : go to -- > get Package Name window

### Screen 6 – Alter Screen



* Button “Enter” : go to -- > Main window
* Button “Back” : go to -- > Main window

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| System Decomposition | Kareem |
| Document Purpose , Class Diagram , Sequence Diagrams | Waseem |
| User interface Design | Kareem , Mohammed , Yasser |

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