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| *Software Engineering-1*  *Software Requirements Specification*  *For*  *Web-Service to code project* |
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| *Date:*  *November 8, 2014* |

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# Team

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# Document Purpose and Audience

* **The purpose of this document is to present a detailed description of the Web-Service to Code Project. It will explain the purpose and features of the project, the interfaces of the project, what the project will do.**
* **This document is intended for developers of Web-Services.**

# Introduction

## Software Purpose

* **The purpose of this project is to help developers to integrate/consume a soap web service into his/her final application.**

## Software Scope

* **This Software system is created to help developers in their java application and generate classes’ methods from WSDL. This software will be a (Web-Service to Code) application; it should take the web-services WSDL link or source code as an input and generate the required classes/methods stricter to encapsulate that web service.**
* **Furthermore, this software should provide a way for user to preview, alter/modify the generated source code files manually. The user of this software can easily use change the code and view it. As a first version, The Webservice2Code application should support .net soap web-services for java platform (including android). This software**

**must have a simple interface so that any developer could use and benefit from.**

## Definitions, acronyms, and abbreviations

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| Term | Definition |
| Web-service | a method of communication between two electronic devices over a [network](http://en.wikipedia.org/wiki/Computer_network). |
| WSDL | is an XML format for describing network services as a set of endpoints operating on messages containing either document-oriented or procedure-oriented information. |
| java | A high level programming language , its objective – oriented programming language |

# Requirements

## Functional Requirements

* **The software should take the WSDL as a link or code (from the device) from the user**
* **The software should show the list of function and method that want to be implemented and the user chose from them**
* **The software should transfer the chosen method into java code**
* **The software should allow the user to modify this code or other code in the device**
* **The software allow the user to save the code and the modify code in the device**

## Non Functional Requirements

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| --- | --- |
|  | Details |
| Performance | * **Transforming the WSDL in less than 40 second** |
| Maintainability | * **The software return to normal function after break down in less than 20 second** |
| Usability | * **How to use guide and labels** |

# System Models

## Use Case Model

#### Use case: Submit the WSDL

**Diagram:**

Developer

Submit the WSDL

**Brief Description**

**The developer must input the WSDL link or source code to the software.**

**Initial Step-By-Step Description**

1. **Developer must open the software , he\she must click in the WSDL source button.**
2. **System view two option either the WSDL link or WSDL code.**
3. **The Developer chose the case he want.**
4. **The System must check it to valid the WSDL if developer must check the WSDL.**

#### Use case: Create the Code

**Diagram:**

Developer

Create Code

**Brief Description**

**The developer chose to create the source code and save it.**

**Initial Step-By-Step Description**

1. **User must click in the create code button.**
2. **Software must make sure that the developer Submit WSDL.**
3. **Developer must chose the place to save the source code file.**

#### Use case: Modify the Code

**Diagram:**

Developer

Modify the code

**Brief Description**

**The developer chose to modify the code either an old or a new code, and save it.**

**Initial Step-By-Step Description**

1. **User must click in the modify the code button.**
2. **Software ask the developer if he/she want this source code or an old code.**
3. **If developer choose an old code software view computer file to choose the old code source.**
4. **Software show the source code for the developer.**

## Use Case Tables

|  |  |  |
| --- | --- | --- |
| **Use Case ID:** | **Usecase01** | |
| **Use Case Name:** | Submit the WSDL | |
| **Actors:** | **developer** | |
| **Pre-conditions:** | **Chose the submit button** | |
| **Post-conditions:** | **Create the code** | |
|  | **User Action** | **System Action** |
| **1- User chose to submit link or source code** |  |
|  | **2- System open the file browser if chose source code** |
| **3- user enter the link of the WSDL or chose the file he/she wants** |  |
|  | **4- System verify the code and show list of methods name** |
| **5- user chose the methods he/she wants** |  |
| **Exceptions:** | **If the source or link are not accepted form of WSDL the user should reenter it** | |
| **Includes:** |  | |
| **Notes and Issues:** |  | |

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| --- | --- | --- |
| **Use Case ID:** | **Usecase02** | |
| **Use Case Name:** | Create the Code | |
| **Actors:** | **developer** | |
| **Pre-conditions:** | **Chose the create button** | |
| **Post-conditions:** |  | |
|  | **User Action** | **System Action** |
| **1- User chose to create the code** |  |
|  | **2- System open new java file and generate the code in it** |
|  | **3- System ask the user if he/she want to save the file** |
| **4- user chose wither to save or not** |  |
|  | **5- system show file browser of the device** |
| **6- user chose the name and place of the file and click save** |  |
|  | **7- system save the new file in the device** |
| **Exceptions:** | **Error in creating the file or accessing the specific file** | |
| **Includes:** |  | |
| **Notes and Issues:** |  | |

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| --- | --- | --- |
| **Use Case ID:** | **Usecase02** | |
| **Use Case Name:** | Modify the Code | |
| **Actors:** | **developer** | |
| **Pre-conditions:** | **Chose the modify button** | |
| **Post-conditions:** |  | |
|  | **User Action** | **System Action** |
| **1- User chose to modify current open code or save in device** |  |
|  | **2- System open the file browser if chose saved in device** |
|  | **3- system open the specific file in new tab in the software** |
| **4- user modify the code as he/she want** |  |
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| **Exceptions:** |  | |
| **Includes:** | **Massage to save the code source or not after closing the tab** | |
| **Notes and Issues:** |  | |

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# Ownership Report

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| --- | --- |
| Item | Owners |
| Document purpose and audience ,Software purpose | **yasmeen** |
| Use case model table | **Mariam** |
| Software scope ,definition | **huda** |
| Function requirement and non-function requirement | ***salwa*** |