



CS251 – Software Engineering I

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Project: WebService2Code - 2014

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Document Purpose and Audience

This document shows the application's requirements, case models and tables to be a guide base between the client and the developer.

The audience are the clients and users.

Introduction

Software purpose:

- The goal of this project is to deliver a software application for helping developers to integrate/consume a soap web service into his/her final application.

Software Scope:

- This project will work on converting the WSDL (using XML) to java files to perform the desired action, based on the web service that the user demands.

Software Requirements

Functional Requirements:

- User provides WSDL URL for the system to create java files.
- User can check all the boxes to choose all methods at once, or check only the ones s/he wishes to include.
- User provides the name of a new subfolder in a default non-changeable directory in which the java files will be created.
- User can start the conversion when s/he pushes the start conversion button. The java files are named after the classes within, and javaDoc type comments are added in these files.

Non-Functional Requirements:

	Details
Accessibility	Only clients of our business have access to this software
Certification	This software is not certified from any external entity
Dependency on other parties	The user has to have a working WSDL link to use the software
Documentation	User documentation is available for this software
Interoperability	This software connects a soap web service to a windows software
Maintainability	This software is updated on a regular basis
Performance	One web service conversion at a time
Platform	Microsoft Windows 7
Price	This software is free of charge
Reliability	This software is very reliable
Supportability	Technical support is available
Usability	User friendly

System Models

Use Case Tables:

Use Case ID:	01	
Use Case Name:	Provide WSDL link	
Actors:	1. User 2. A Webpage holding XML code	
Pre-conditions:	The existence of a working WSDL link to java files	
Post-conditions:	WSDL is set	
Flow of events:	User Action	Software Action
	1- User Enters WSDL link	2- Checks the validity of the link
Exceptions:	Provide a warning message if the link is not valid	
Includes:	None	
Notes and Issues:	None	

Use Case ID:	02	
Use Case Name:	Choose Methods	
Actors:	User	
Pre-conditions:	A working link is provided	
Post-conditions:	Methods to be generated are checked	
Flow of events:	User Action	Software Action
	1- User checks the methods he would like to generate	2- Software stores these choices
Exceptions:	If none of the methods are checked a warning message shall be given	
Includes:	Provide WSDL link	
Notes and Issues:	None	

Use Case ID:	03	
Use Case Name:	Name Subfolder	
Actors:	User	
Pre-conditions:	None	
Post-conditions:	A new subfolder name is set in the default directory	
Flow of events:	User Action	Software Action
	1- User provides a name for the subfolder	2- Checks that name doesn't have any characters not allowed by windows as folder names 3- If there is show a warning message
Exceptions:	If no name is given put default name	
Includes:	None	
Notes and Issues:	None	

Use Case ID:	04	
Use Case Name:	Java files Creation	
Actors:	User	
Pre-conditions:	<ol style="list-style-type: none"> 1. A working WSDL link 2. At least one method is chosen 	
Post-conditions:	Java files are created in the default directory under the subfolder previously named	
Flow of events:	User Action	Software Action
	1- User pushes the start conversion button	2- Software reads the methods selected 3- Software creates subfolder with name provided or default name 4- Software generate methods selected using XML code provided through the WSDL link
Exceptions:	<p>If none of the methods is checked software should not do anything until provided.</p> <p>If cannot create the subfolder in default directory or can't find default directory show message of the error</p> <p>If any problem happened while conversion a message with the problem should appear.</p>	
Includes:	<ol style="list-style-type: none"> 1. Provide WSDL link 2. Choose Methods 3. Name Subfolder 	
Notes and Issues:	None	

Ownership Report

Item	Owners
Document Purpose and Audience	Magieda Abaza
Introduction	Magieda Abaza
Software Requirements	Mostafa Saafan & Magieda Abaza
System Models	Mostafa Saafan