**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 05.09.2019 | 1.0 | Assignment of work to Members | Kerem Güre |
|  |  |  |  |
| 06.10.2019 | 1.3 | Risk analysis table added | Denizcan Özpinar |
| 07.10.2019 | 1.6 | Risk analysis table extended  Risk planning table added | Emre Ay |

**TABLE OF CONTENTS**

**Revision History 1**

**1** **Identification 3**

***1.1*** ***Document overview 3***

***1.2*** ***Abbreviations 3***

1.2.1 Abbreviations 3

***1.3*** ***References 3***

1.3.1 Project References 3

**2** **Software Development Activities 3**

***2.1*** ***Software development process 3***

2.1.1 Overview of process phases 3

2.1.2 Technical documentation 4

2.1.3 Deliverables 4

***2.2*** ***Software development tools 4***

2.2.1 Workstation 4

2.2.2 Requirements management and documentation 4

2.2.3 Software Design 4

2.2.4 Coding and automated tests 4

2.2.5 Configuration management 4

***2.3*** ***Software development rules and standards 4***

**3** **Responsibilities 5**

***3.1*** ***Activities and responsibilities 5***

**4** **Risk Assessment 5**

***4.1*** ***Risk Analysis 5***

***4.2*** ***Risk Planning 5***

# **Identification**

## ***Document overview***

This document contains the software development plan of software BCP.

Briefly explain your project with one paragraph; what this software is about, what type of an application (desktop, Web, etc.) it is, what is it supposed to do.

## ***Abbreviations***

### **Abbreviations**

Add here abbreviations. For example, define an abbreviation for the software system that is going to be developed and use this abbreviation to refer to the system in the rest of the document. You can also add other abbreviations that were previously defined. For example, a list like the following one can be provided.

BCP: Build PC Project

UML: Unified Modeling Language

IDE: Integrated Development Environment

JDK: Java Development Kit

SRS: Software Requirement Specification

STP: Software Test Plan

SDD: Software Design Document

STR: Software Test Report

…

## ***References***

### **Project References**

|  |  |  |
| --- | --- | --- |
| # | Document Identifier | Document Title |
| [R1] | ID | Add your documents references.  One line per document |

# **Software Development Activities**

The section lists and describes the software development activities of XXX software development project.

## ***Software development process***

This is a course project, which adopts the waterfall model as the software development process.

### **Overview of process phases**

The software development process for the project will be composed of the following phases:

* Planning
* Requirements Analysis
* Design
* Implementation
* Testing and Analysis

These phases will follow each other sequentially, where each phase starts just after the completion of the previous one. The following Gantt chart depicts the planned start date and duration for the phases.

Include a Gantt chart here!

### **Technical documentation**

The following documentation is produced during the software development phases:

* Software specification: SRS, STP
* Software detailed conception: SDD
* Software tests phases : STR
* Software analysis: SAR

### **Deliverables**

The following items will be delivered at the end of the process:

* Technical documentation as outlined in Section 2.1.2
* Software and its configuration files

## ***Software development tools***

### **Workstation**

Describe the typical Workstation used for development

### **Requirements management and documentation**

Describe tools used to write and manage requirements : Microsoft Word, etc.

### **Software Design**

Describe tools used for software design :

* Argo UML open source tool, Microsoft Visio, Rational Rose, Together J, etc.

### **Coding and automated tests**

Describe tools used for coding and automated tests.

* Eclipse + list of plugins or MS Visual Studio 2010 + list of plugins
* Junit, etc.

### **Configuration management**

GitHub[[1]](#footnote-0) will be used for software configuration management and tracking issues regarding the software development. A public repository will be created for this purpose.

## ***Software development rules and standards***

UML[[2]](#footnote-1) will be used for software design documentation.

Describe here other standards and rules you plan to use for software development, if any. For instance, you can follow a particular coding standard/convention (e.g., Oracle provides coding conventions for Java: http://www.oracle.com/technetwork/java/codeconvtoc-136057.html). Then you should mention it here and provide a link for it.

# **Responsibilities**

## ***Activities and responsibilities***

Each activity has someone responsible (although multiple project members can be involved in the activity), mandatory.

|  |  |  |
| --- | --- | --- |
| **Activity** | **Responsibility** | **Comment** |
| Project management | YYY |  |
| Configuration tools management | ZZZ |  |
| Setting up the Development tools | YYY, XXX |  |
| Software specifications | XXX |  |
| Database design | XXX |  |
| … |  |  |

# **Risk Assessment**

## ***Risk Analysis***

|  |  |  |
| --- | --- | --- |
| Risk | Probability | Effects |
| The time required to develop the software is underestimated. | High | Serious |
| Customer’s requirements may change during development time. | Moderate | Serious |
| Workstation system failure. | Low | Tolerable |
| Code generated by code generation tools is inefficient. | Moderate | Insignificant |
| Software tools may be incompatible with other tools. | Moderate | Tolerable |
| One of the team members may quit the project temporarily or permanently. | Low | Tolerable |
| Financial stability might not be sustained during the project schedule. | Low | Serious |
| Collaboration and motivation may not be provided by the management. | Moderate | Serious |

## ***Risk Planning***

|  |  |  |
| --- | --- | --- |
| Risk | Potential Indicators | Actions |
| The time required to develop the software is underestimated. | Being behind the schedule or late delivery. | Reorganizing the tasks, outsource one of the tasks if it is necessary |
| Customer’s requirements may change during development time. | Customers may compliant. | Adjusting the project according to new customer requirements |
| Workstation system failure. | Facing errors during development process. | Investigating errors and resolve them. Otherwise, change the workstation. |
| Code generated by code generation tools is inefficient. |  |  |
| Software tools may be incompatible with other tools. | Structural errors may occur. | Tools can be easily switched to compatible alternatives. |
| One of the team members may quit the project temporarily or permanently. | Poor relationship amongst the team members | Reorganizing the team to fulfill unassigned tasks. |
| Financial stability might not be sustained during the project schedule. | Poor staff morale or decrease in performances | To seek alternative funds such as bank loans. |
| Collaboration and motivation may not be provided by the management. | Poor staff morale or decrease in productivity | Organizing activities to increase motivation or reorganizing the team in a more effective way |

1. http://www.github.com [↑](#footnote-ref-0)
2. http://www.uml.org/ [↑](#footnote-ref-1)