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LatexEditor

Release Report

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## VERSIONS HISTORY

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Date	Version	Description
24/5/2019	1	The release report for the 2 <sup>nd</sup> release

## 1 Introduction

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This document provides information concerning the <2nd> release of the project.

### 1.1 Purpose

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Latex is a well known high quality document preparation markup language. It provides a large variety of styles and commands that enable advanced document formatting. Typically, a Latex document is compiled with a tool like MikTex, Lyx, etc. to produce a respective formatted document in pdf, ps, etc. Formatting documents with Latex is a programming like process as it involves the proper usage of Latex commands which are embedded in the document contents. The objective of this project is to develop a simple Latex editor for inexperienced Latex users. The goal of the editor is to facilitate the usage of Latex commands for the preparation of Latex documents. One of the prominent features that distinguishes the LatexEditor from other similar applications is its multi-strategy version tracking functionalities that enable undo and redo actions.

### 1.2 Document Structure

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The rest of this document is structured as follows. Section 2 specifies the acceptance tests that have been employed for this release of the project. Section 3 specifies the main design concepts for this release of the project.

## 2 Tests

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<For the user stories included in this release specify below corresponding tests using a typical tabular form.>

### 2.1 Tests for User Story <1>

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<b>Test ID</b>	<i>1</i>
<b>User Story</b>	<i>US1</i>
<b>Test Class</b>	<i>TestUS1</i>
<b>Description</b>	<i>Checks if the contents of the newly created document match the expected contents of the selected template.</i>

## 2.2 Tests for User Story <2>

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<b>Test ID</b>	2
<b>User Story</b>	US2
<b>Test Class</b>	TestUS2
<b>Description</b>	<i>Checks if the edited contents of the document are correctly updated.</i>

## 2.3 Tests for User Story <3>

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<b>Test ID</b>	3
<b>User Story</b>	US3
<b>Test Class</b>	TestUS3
<b>Description</b>	<i>Checks if the contents after adding a command are different from the contents that have been set.</i>

## 2.4 Tests for User Story <4>

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<b>Test ID</b>	4
<b>User Story</b>	US4
<b>Test Class</b>	TestUS4
<b>Description</b>	<i>Checks if the contents of the previous version of the document match the contents before the edit action, for each different version strategy.</i>

## 2.5 Tests for User Story <5>

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<b>Test ID</b>	5
<b>User Story</b>	US5
<b>Test Class</b>	TestUS5
<b>Description</b>	<i>Checks if the command for changing the version strategy works properly.</i>

## 2.6 Tests for User Story <6>

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<b>Test ID</b>	6
<b>User Story</b>	US6
<b>Test Class</b>	TestUS6
<b>Description</b>	<i>Checks if the versions history remains unchanged after disabling the version tracking mechanism and adding a document's version in the evolution history.</i>

## 2.7 Tests for User Story <7>

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<b>Test ID</b>	7
<b>User Story</b>	US7
<b>Test Class</b>	TestUS7
<b>Description</b>	<i>Checks if the contents of the document after the edit action are different from the document's previous version(before the edit action).</i>

## 2.8 Tests for User Story <8>

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<b>Test ID</b>	8
<b>User Story</b>	US8
<b>Test Class</b>	TestUS8
<b>Description</b>	<i>Checks if the contents of the document match the contents of the file that has been saved to disk.</i>

## 2.9 Tests for User Story <9>

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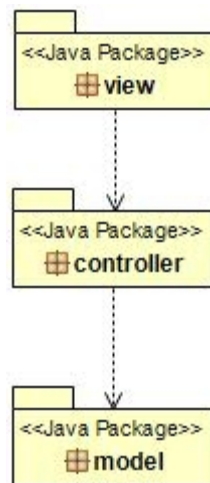
<b>Test ID</b>	9
<b>User Story</b>	US9
<b>Test Class</b>	TestUS9
<b>Description</b>	<i>Checks if the contents of the document match the contents of the file that has been loaded from the disk.</i>

## 3 Design

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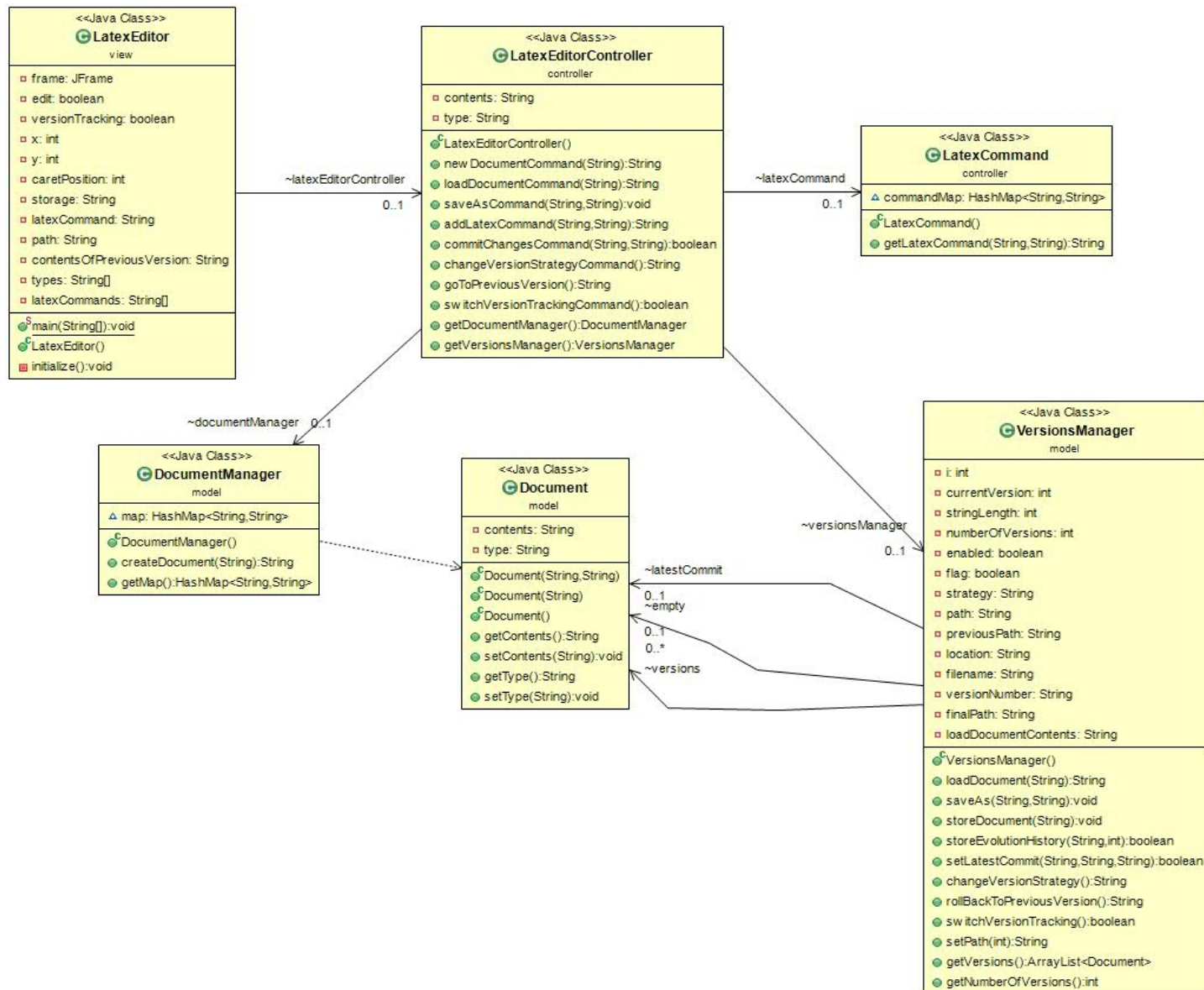
### 3.1 Architecture

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### 3.2 Design

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### Class Name: LaTeXEditor

#### Responsibilities:

- Starts the application
- Handles the user's requests

#### Collaborations:

- LaTeXEditorController

### Class Name: LaTeXEditorController

#### Responsibilities:

- Handles the communication between the back-end and the front-end

#### Collaborations:

- LaTeXEditor

	<ul style="list-style-type: none"> <li>▪ LatexCommand</li> <li>▪ DocumentManager</li> <li>▪ VersionsManager</li> </ul>
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Class Name: LatexCommand	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>▪ Contains all the available Latex commands</li> <li>▪ Contains a method to add a chosen command to a document</li> </ul>	<b>Collaborations:</b> <ul style="list-style-type: none"> <li>▪ LatexEditorController</li> </ul>

Class Name: DocumentManager	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>▪ Creates a map which contains the document templates</li> <li>▪ Assigns a chosen document template to a document</li> </ul>	<b>Collaborations:</b> <ul style="list-style-type: none"> <li>▪ LatexEditorController</li> <li>▪ Document</li> </ul>

Class Name: Document	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>▪ Contains information for a document</li> </ul>	<b>Collaborations:</b> <ul style="list-style-type: none"> <li>▪ DocumentManager</li> <li>▪ VersionsManager</li> </ul>

Class Name: VersionsManager	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>▪ Handles the version tracking mechanism</li> </ul>	<b>Collaborations:</b> <ul style="list-style-type: none"> <li>▪ LatexEditorController</li> <li>▪ Document</li> </ul>