FasTeX

faster bibliography application

Group 1

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Requirements Document

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1 Introduction

1.1 Overview:

This document contains this topics:

- Introduction
- Functional requirements
- Non-Functional requirements
- Software Design Process

1.2 Purpose of this document:

- Explain requirements and give information about our application FasTeX
- Decide outcomes and expectations of our application
- Keeping track of our applications development
- Create a bridge between stakeholders and the development team
- Make a reference for upcoming projects

1.3 Scope of the product:

This application will be a bibliography reference manager to make it easier for its users to create bibliography files. The native file format of this project is BibTeX, the standard LaTeX bibliography format. Furthermore, it will be designed and implemented to have the ability to create and customize BibTeX files. This application targets people who often uses BibTeX files. Some examples of the user scope may include: academicians, librarians, teachers, editors, authors etc.

2 Functional Requirements

- This application aims to reduce the displaying, creating and editing time spend on the BibTeX files by 1 to 3 minutes per file by 10 percent faster algorithm time complexity and easy to use user interface.
- Application can be installed by using the setup file.
- Application will have a displaying space for contents of the BibTeX files
- Application will have 'Create', 'Open' and 'Search' buttons at start page.
- Users can create new BibTeX file with using 'Create' button.
- When users click on the 'Create' button, they will see text field that they can write the name, surname, research date and etc.
- Additionally application will have a save button that will save all the BibTeX file to application's database.
- Application will have it's database of BibTeX files stored inside.
- Application will have a search function that will allow any words or numbers specified by the user searched thought the database of BibTeX files and returns to user with the findings.

- When the users click on 'Open' button there will be two options as well. With using the first one they can open BibTeX file which they downloaded from internet, and with the second option they can open BibTeX files from program's database.
- Application can be closed off by using the close button.

3 Non-Functional Requirements

3.1 Non-Functional User Requirements

- Users need to have a computer that runs our application.
- Users need to have at least beginner English to be able to understand which button works how.
- Users need to know how to use the computer at least a basic level.
- User Interface design elements, such as color and font choice, should support legibility enough to make users efficiently interact with application.
- Users are responsible to protect their data; such as their own password, from intruders.

3.2 Non-Functional System Requirements

- Suggested Operating Systems: 64-bit Windows 7, Windows 8.1, Windows 10
- Memory: 512 megabyte RAM
- Storage: 2 gigabyte hard disk space
- Software: C SHARP, Mockup, Adobe XD

4 Software Design Process

Our application will be designed via mockup in first stage to determine which buttons exist where. Then, Adobe XD will be used to create the final design and C SHARP will be used to implement. We will use SQLite for application's database of BibTeX files.