Document Search Engine
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**Software Requirements Specification
Document**

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1. Introduction

The following subsections of the Software Requirements Specifications (SRS) document provides an overview on the Document Search Engine, its purpose, scope, tools used, references, softwares and hardware requirements.

1.1 Purpose

The purpose of this project is to build a Document Search Engine which allows users to efficiently search for required files. It will also provide usage statics about files and keep track of files.

1.2 Scope

The proposed Document Search Engine can be used by a wide variety of users ranging from students, teachers, business professionals, or any random person or a group of people.

1.3 Tools Used

IDE – JetBrains PhpStorm 9.0

JetBrains PhpStorm is a commercial, cross-platform IDE for PHP built on JetBrains' IntelliJ IDEA platform.

PhpStorm provides an editor for PHP, HTML and JavaScript with on-the-fly code analysis, error prevention and automated refactorings for PHP and JavaScript code. PhpStorm's code completion supports PHP 5.3, 5.4, 5.5, 5.6 & 7.0 (modern and legacy projects), including generators, coroutines, the finally keyword, list in foreach, namespaces, closures, traits and short array syntax. It includes a full-fledged SQL editor with editable query results.

IDE - Android Studio

Android Studio is the official integrated development environment (IDE) for Android platform development.

Based on JetBrains' IntelliJ IDEA software, Android Studio is designed specifically for Android development. It is available for download on Windows, Mac OS X and Linux, and replaced Eclipse Android Development Tools (ADT) as Google's primary IDE for native Android application development.

Web Server – Apache on XAMPP

Apache HTTP Server, *colloquially called* **Apache**, *is the world's most used [web server](#) software.*

Apache supports a variety of features, many implemented as [compiled](#) [modules](#) which extend the core functionality. These can range from server-side programming language support to authentication schemes. Some common language interfaces support [Perl](#), [Python](#), [Tcl](#), and [PHP](#).

Framework – Slim

Slim is a PHP micro framework that helps you quickly wite simple yet powerful web applications and APIs.

Database – MySQL on XAMPP

MySQL *is an [open-source](#) [relational database management system](#) (RDBMS); in July 2013, it was the world's second most widely used RDBMS, and the most widely used open-source [client–server model](#) RDBMS.*

Design tool - ArgoUML

ArgoUML *is an [UML](#) diagramming application written in Java and released under the [open source](#) [Eclipse Public License](#). By virtue of being a [Java](#) application, it is available on any platform supported by Java.*

Postman

Postman *is a tool used to test APIs.*

1.4 References

- *Java docs -* [https://**docs**.oracle.com/**java**se](#)
- *Wikipedia –* [http://www.wikipedia.com](#)
- *Php –* [http://www.php.net](#)
- *Android –* [http://developer.android.com](#)

1.5 Technologies to be used

- *Database – MySQL*
- *Java - Android*
- *Php – Php Hypertext Preprocessor*
- *HTML – Hyper Text Markup Language*
- *CSS – Cascading Style Sheets*

- *XML – Android*
- *AJAX – Asynchronous JavaScript and XML*

1.6 Software Interface

Client on Internet
    Web Browser, Operating System (any)
    Application, Android
Web Server
    Apache on XAMPP, Operating System (any)
Database
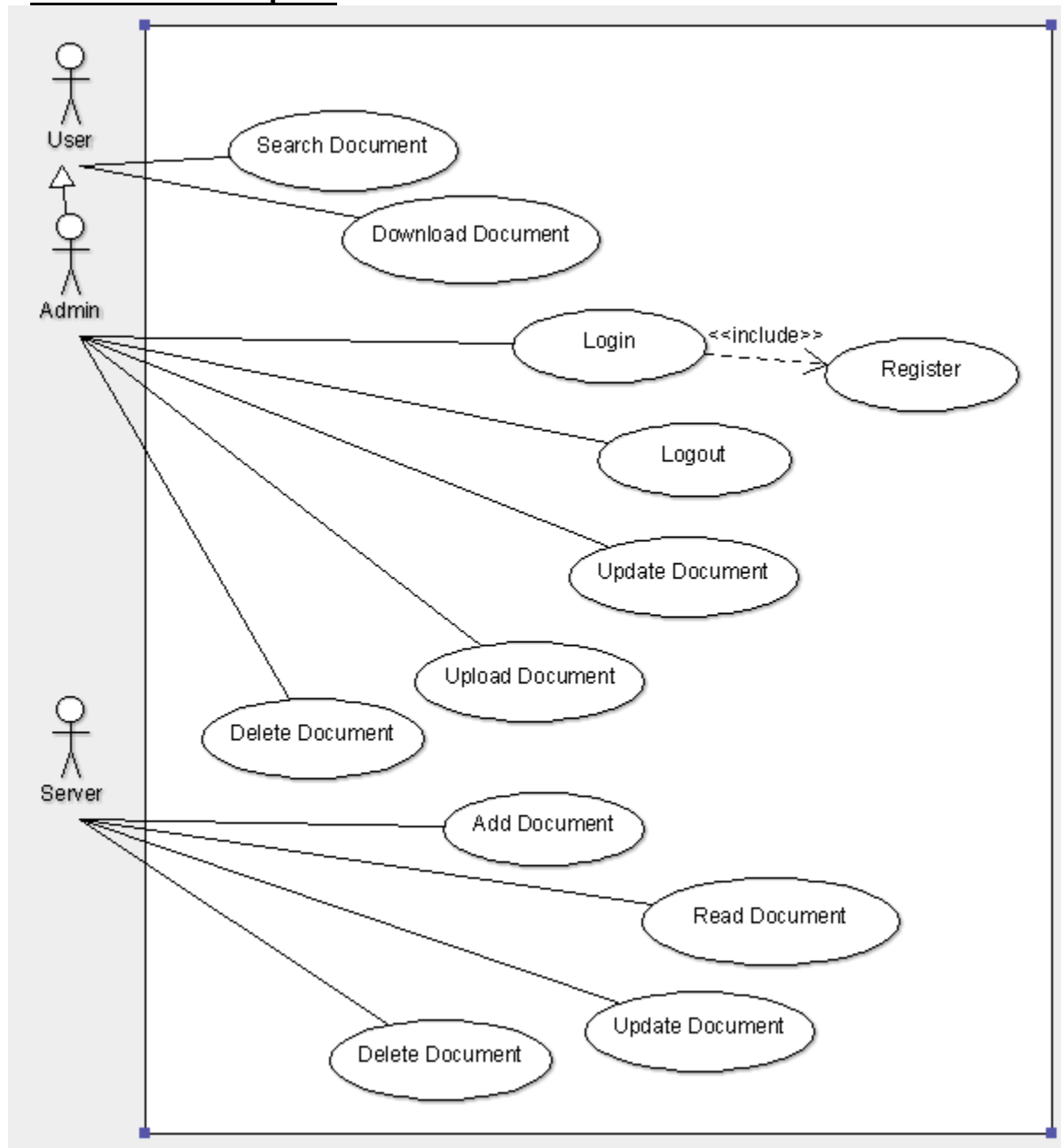   *MySQL on XAMPP, Operating System (any)*
Development End
    Java(Android), XML(Android), HTML, PHP, MySQL, JavaScript, CSS, OS(Windows)

1.7 Hardware Requirements

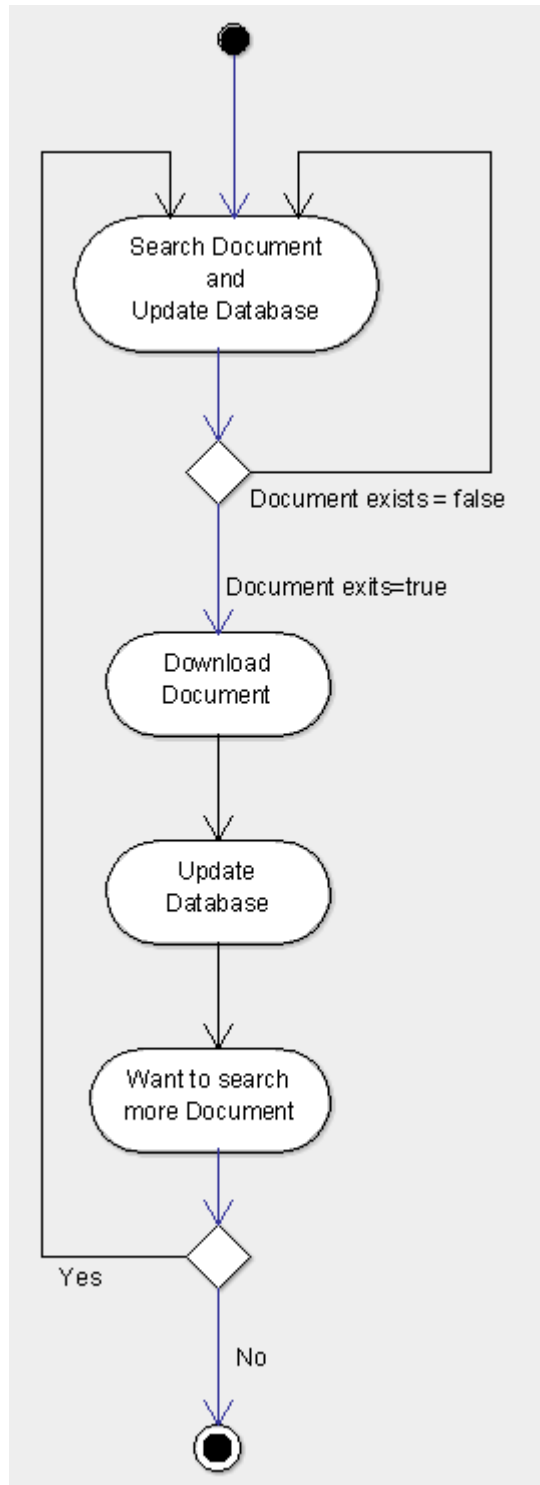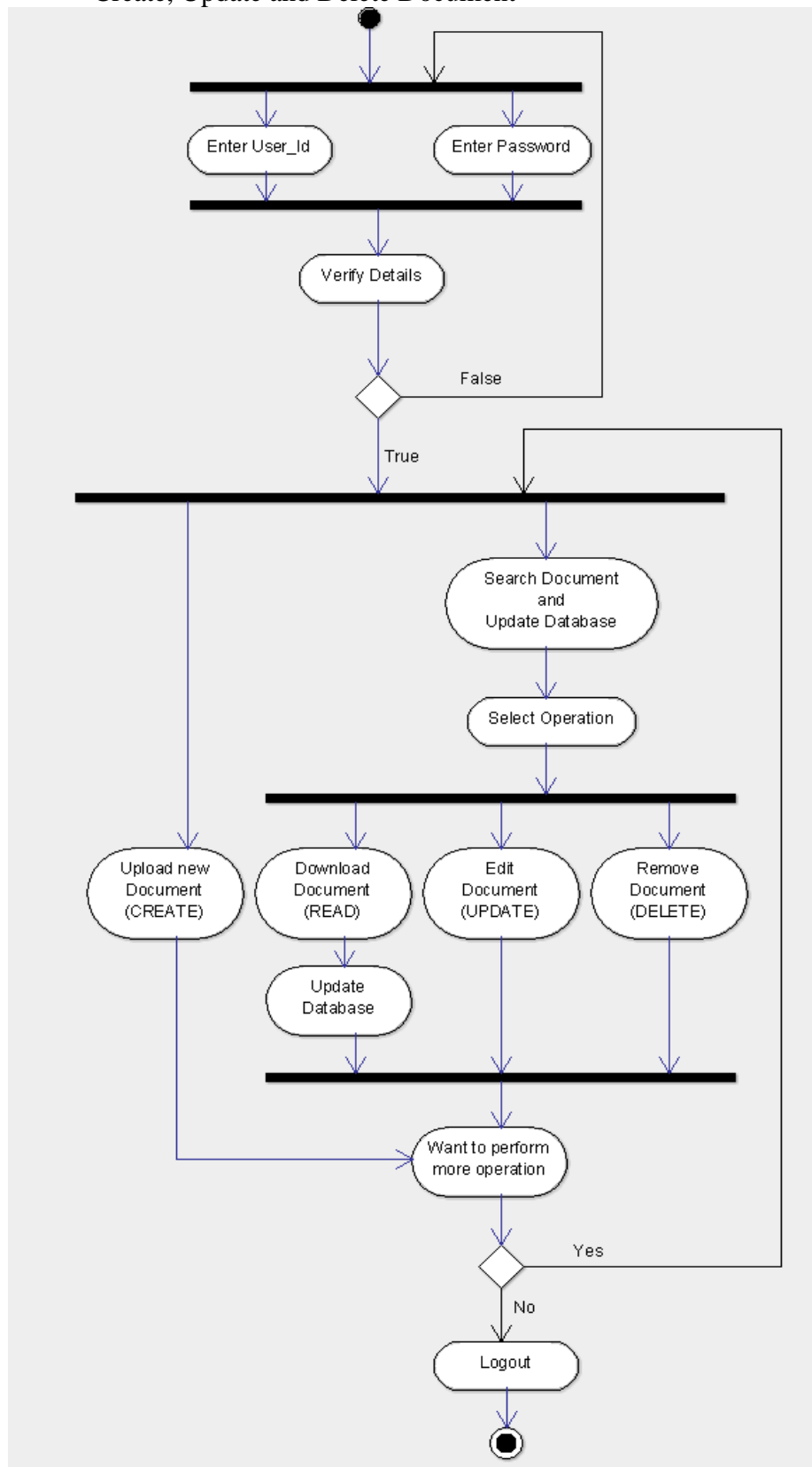| Application	Processor	RAM	Disk Space	Operating System
Browser	800 MHz or above	1 GB or above	100 MB or above	Windows/ Linux
Android App	800 Mhz or above	1 GB or above	50 MB or above	Android OS

2. Specific Requirements

2.1 Use – Case Reports

2.2 Activity Diagrams
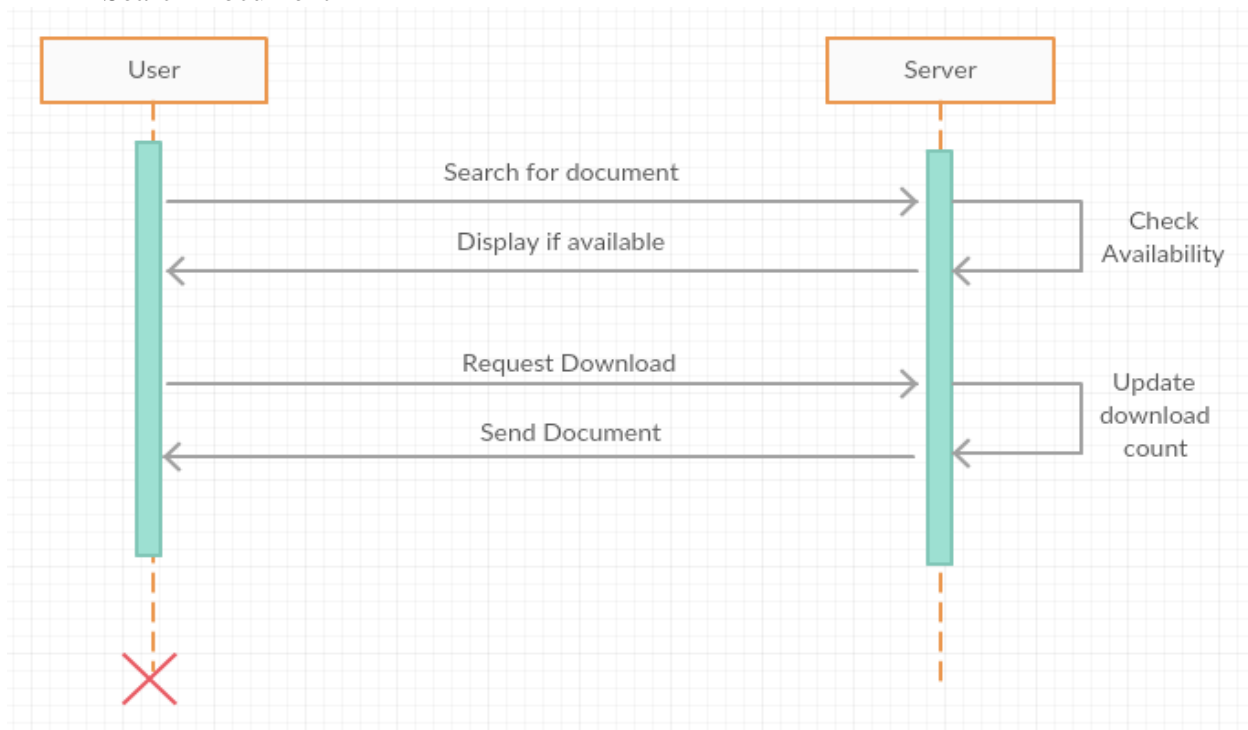
Search and Download Document

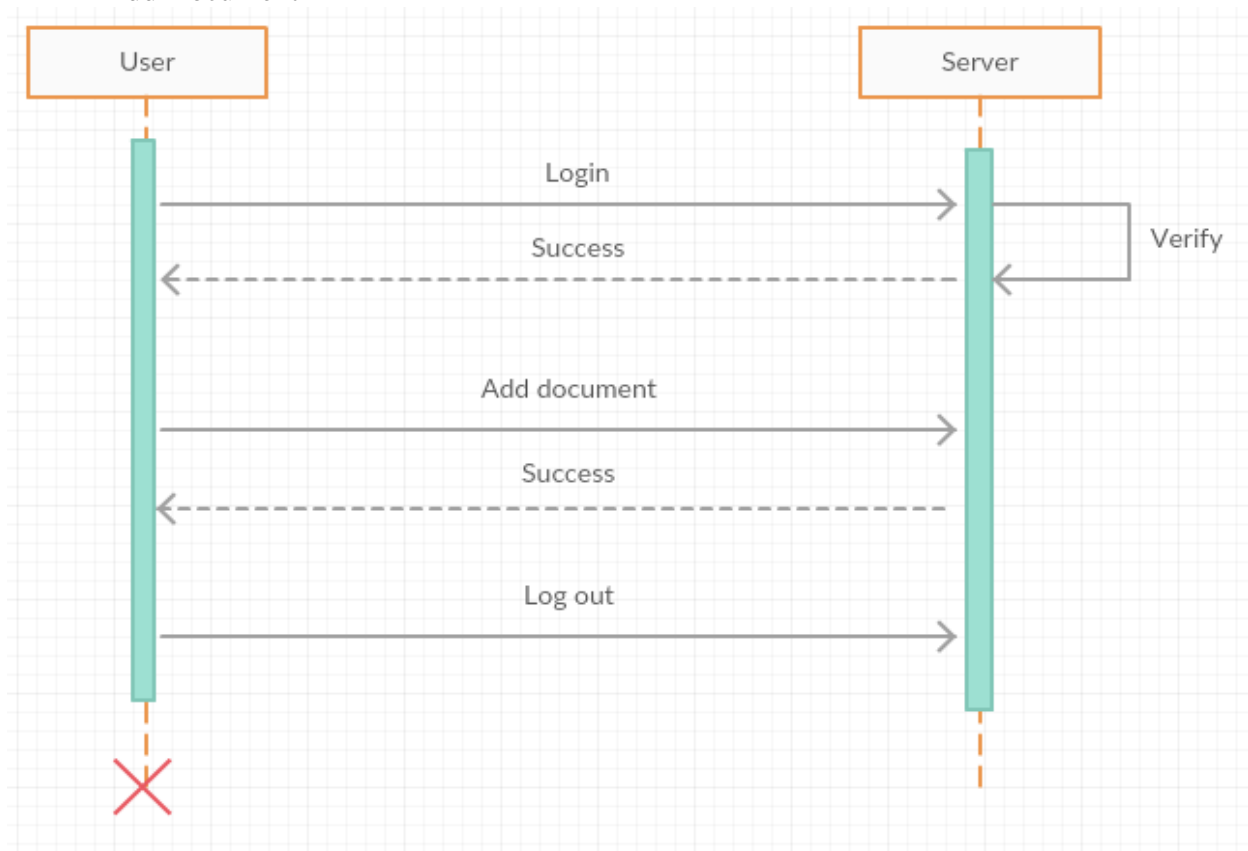Search Document
and
Update Database

Document exists = false

Document exits=true

Download
Document

Update
Database

Want to search
more Document

Yes

No

Create, Update and Delete Document

2.3 Sequence Diagrams
Search Document

Add Document

Update Document

User		Server

- Login →
- ← Success (Verify)
- Search document →
- ← Display document (Check Availability)
- Update document →
- ← Success
- Log out →

Delete Document

User		Server

- Login →
- ← Success (Verify)
- Search document →
- ← Display document (Check Availability)
- Delete document →
- ← Success
- Log out →