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Secure Backup Software System
Supplementary Specification

Version 1.0

Revision History

Date	Version	Description	Author
20/Mar/18	1.0	First version of the supplementary specification	Ciucescu Vlad Andrei
16/May/18	1.1	Modified design constraints	Ciucescu Vlad Andrei

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Supplementary Specification

1. Introduction

The **Supplementary Specification** document captures the system requirements that are not readily captured in the use cases of the use-case model. Such requirements include:

- Legal and regulatory requirements, including application standards.
- Quality attributes of the system to be built, including usability, reliability, performance, and supportability requirements.
- Other requirements such as operating systems and environments, compatibility requirements, and design constraints.

2. Non-functional Requirements

2.1 Availability

Availability is the proportion of time a system is in a functioning condition.
The application should always function normally, unless the internet connection is severed.

2.2 Performance

Performance refers to the system response times, as measured from different points, under different circumstances.
The latency of receiving confirmation emails should be lower than 10 seconds. Other than this, latency will only depend on the system the application is installed on, because it has no other web-based components.
Finding the files required by users should be done quickly in a non-relational database.

2.3 Security

Security refers to the security of computing devices such as computers and smartphones, as well as computer networks such as private and public networks, and the Internet.
For this application, security is a functional requirement, because creating secure storage for users is the purpose of the system.
The account passwords are not stored in plain text. Instead, they are encrypted when they are stored in the database.

2.4 Testability

Testability is the property that measures the ease of testing a piece of code or functionality, or a provision added in software so that test plans and scripts can be executed systematically.
The project is easily testable through various testing frameworks. The correct functionality of the software can also be checked by using it directly, as it is easy recreate all the admin and regular user use cases.

2.5 Usability

Usability refers to how easy the system is to utilize to the target users.
The application will have an intuitive interface, with a clear separation between the administrator and regular user interfaces. The available commands will be highlighted in the interface through text and buttons. The application should be easy to use to any person acquainted with computers.

3. Design Constraints

The project must meet the following criteria:

- should be finished until 24.05.18.
- will be implemented in the Java programming language using a layered architecture and another architectural style (such as MVC).

- will be implemented using 2 to 5 design patterns.
- will include 2 to 3 One-To-Many/Many-To-Many entity relationships
- will be implemented using frameworks and libraries such as Spring, Hibernate etc.
- will include a build and dependency management system such as Maven or Gradle
- will be thoroughly tested through unit tests
- input should be validated
- will function on the Windows 10 operating system.