
Vision and Scope Document

for

Data Corruption Recovery

Version 1.0 approved

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Revision History

Name	Date	Reason for Changes	Version
Maria Letty Laureta	10/08/16	Creation of paper.	1.0
Kent Michael Miculob	10/13/16	Paper revision and completion.	1.1
Kent Michael Miculob	10/16/16	Paper revision	1.2

1. Business Requirements

Since the application is completely researched based, the teams together with its adviser establish the requirements needed, which are the following:

- Able to provide a real-time back-up.
- Able to store changes in logs.
- Able to monitor memory capacity.
- Can detect data corruption in the back-up storage.

1.1.1 Background

The research idea came from an experience of one of the team member's experience on data corruption. As he was creating a text document to his subject a sudden power outage occur, and that all the effort inserted onto that document turn to waste and the he felt despair. Then the conceptualization of data corruption prevention came into their minds.

1.2. Business Opportunity

The potential market of this innovation are those people whom using external storage devices or flash drives, which contents are often, made up of text documents.

Most people thought that maintaining back-up is a chore. These is a problem that can be considered as an opportunity, since the innovation offers real-time back-up, people would consider using a much easier tool such as this innovation, as compared to a manual back-up.

1.3. Business Objectives and Success Criteria

The objective of this innovation is to provide a handy tool that can be easily used by the consumers. The tool should be capable of real-time back up, monitoring changes that are stored in logs, scanning for data corruptions. Success is achieved if the three main functions are working properly.

1.4. Customer or Market Needs

In the time and age we had, most of the people keep their documents in soft copies and have had own personal laptops or desktop computers. But some of them aren't doing back-up on their files as a practice or routine. The system introduces real-time back up and it's embedded in the flash drive that can be brought anywhere. With this, the issue on manual back-up is addressed, such as maintaining a weekly or monthly routine to back-up file. It provides security on data in event of corruption.

1.5. Business Risks

One of the risk that the developers trying to manage is the lack of knowledge since the area of data corruption has a wide range of variations, and the researchers require vast knowledge on data corruption. Another risk is that the time constraint of the team developers.

2. Vision of the Solution

The solution would gradually evolve and later include other file type that contains video and music to be back-up in real-time. The system should be further develop to be more efficient

2.1. Vision Statement

We tend to provide users an easy way to protect their files or information from sources of corruption, with the least learning curve needed, with real-time capabilities, and handy.

2.2. Major Features

1. Real-Time Back Up – In this feature, while the user is working on its text file, it will automatically save and back-up the file.
2. Synchronization - While the user is working on the file, the work that has been done is saved gradually.
3. Mobile – The application can be with the user anywhere and anytime.

2.3. Assumptions and Dependencies

There are assumptions made during the creation of the project and it is necessary since it is out of the scope of the project but could probably have an impact to the system.

- It is assumed that the computers are properly equipped with anti-virus such that the storage device wouldn't be affected by any malicious program.
- The user is responsible enough to protect the hardware, where the software is stored.

3. Scope and Limitations

This Project aims to help students and/or office-workers to secure their information or data on availability issues, whom are using windows OS- 7 and higher. The project primarily focuses on data corruption and prevention. It also assumes that the interaction is just between the players of the system such as the admin, system, and user. The prevention of data corruption is only focus on text documents, and it is beyond the systems capability if the flash drive itself became corrupted since it should be the users' responsibility to protect the hardware itself.

The flash drive that will be used should have a NTFS file structure with a memory space not below 4 gigabyte. The optimal performance of the application could be achieved if the memory space of the flash drive is less than 90%.

3.1. Scope of Initial Release

During the initial release of the system, a handy flash drive is produced which is capable of real-time back up on text file. It also records any changes stored in logs and capable of scanning data corruption that exist in the back-up flash drive.

3.2. Scope of Subsequent Releases

In subsequent release, the software capabilities will include other file types to be back-up in real-time. The bugs or problems during the initial release would be fixed.

4. Business Context

4.1. Stakeholder Profiles

Stakeholder	Major Value	Attitudes	Major Interests	Constraints
User	Improves the system.	Reports errors and bugs.	error correction; ease of use; high reliability	Limited access
Administrator	Monitors the overall system.	Keen in detecting errors and bugs. has a lot of patience	Determining and fixing inconsistencies; easy to use	Budget

4.2. Project Priorities

Dimension	Driver (state objective)	Constraint (state limits)	Degree of Freedom (state allowable range)
Schedule	release 1.0 to be available at the end of the course	Time constraint	90-100% of the utility functions must be done.
Features	The main functions must properly working	Real-time back up are focused on text-files only at release 1.0	70-80% of high priority features must be included in release 1.0
Quality	Provides easy tool to the consumers to use.	Errors and bugs are expected to occur at release 1.0	90-95% of user acceptance tests must pass for release 1.0, 95-98% for release 1.1
Staff	Objective oriented persons that aim for completion.	maximum team size is 6 developers + 4 testers	90-100% of the allowable time should be achieve for release 1.0
Cost	Expenses should not exceed the maximum budget.	Maximum budget	budget overrun up to 15% acceptable without executive review

4.3. Operating Environment

The application would be placed in an external storage device or flash drives. The foundation of the software will be scripts and java language. The users of the system will often be students or office workers; this also means that the software will function 24 hours regardless of geography since the target are office workers, which office hours are during day and night, though it will be expected to have more work load during days since both students and office workers are present.