Online Repository – Functional Specifications

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| Document | Online Repository for documents of research |
| Version | 1.0 |
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| Date | 21st April, 2018 |

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8. **Introduction**

This document lays out a project plan for the development of “Repozitory” open source repository system.

The intended readers of this document are current and future developers working on “Repozitory” and the sponsors of the project. The plan will include, but is not restricted to, a summary of the system functionality, the scope of the project from the perspective of the “Repozitory” team (me and my mentors), scheduling and delivery estimates, project risks and how those risks will be mitigated, the process by which I will develop the project, and metrics and measurements that will be recorded throughout the project.

1. **Overview**

In this fast growing world of internet and superfast connectivity, people are having huge volumes of data to store and retrieve every few seconds. Data is generated at a very high rate and its importance has grown ten folds. We have to build a system where this data can be stored for our Research Based client, Steve Singh. The data will be kept in categories of Financial, Marketing or Technical Research and can be a textual content, image or video. The system has to be easily accessible and editable all times.

* 1. **Customers**

On a specific note, Steve Singh is the targeted customer however the generalized version of “Repozitory” is for everyone. Anyone can use this application ranging from a child to an old-age person.

**2.2 Functionality**

* Users should be able to register through their already existing accounts.
* They should be able to save images/videos/text documents.
* Users can add new artifacts, delete and update them from repository as per their will.
* The Repository must show detailed views of all the material stored ever and give a search option to quickly find your intended research.

2.3 **Platform**

It will be launched Web-based application for the current development. It can be extended to be a Mobile application for Android in the coming versions.

1. **Goals and Scopes**

* There should be no delay in application access from remote machines.
* It must work even on slow internet connections.
* It must provide the liberty to save Image, video or textual document.
* Down time must never exceed 4 hours and shall always be at off-company hours.
* Each user can have an account, however it is not mandatory to have one to save your documents.
* Each user can have the accessibility to add, delete and update documents.
* Admin login must be available and Admin can delete existing users or data as well.

1. **Deliverables**

**Following are the deliverables in this version.**

* Feature specification
* Product design
* Test plan
* Development document
* Source code

**5. Risk Management**

**5.1 Risk Identification**

Following will be the risk involved in this project:

1) People are already using Google Docs to store data freely. So, what would be the real cause that would motivate them to join our application.

**5.2 Risk Mitigation**

Even though most of the users would already be using Google Docs, our platform would still offer them many things that is not there on Google Docs. For eg.

1. There are organizations where such already existsing tools and applications are not utilized, we can popularize our product at such organizations.

**6. Scheduling and Estimates**

|  |  |  |  |
| --- | --- | --- | --- |
| Milestone | Description | Release Date | Release |
|  |  |  | Iteration |
| M1 | Application view and Design | April 20, 2018 | R1 |
|  | (Front-end development) |  |  |
| M2 | Database for my application | April 20, 2018 | R1 |
|  | (Back-end) |  |  |
| M3 | Integrating views and designs | April 20, 2018 | R1 |
|  | (Integrating front-end and |  |  |
|  | back-end) |  |  |
| M4 | Testing for initial release | April 21, 2018 | R2 |
| M5 | Issue tracker, user reviews, | April 21, 2018 | R2 |
|  | web design integration |  |  |
| M6 | Final release | April 22, 2018 | R2 |

**7. Technical Process**

Following would be the languages used to develop application within the stipulated time period:

Front-end development: Jquery, HTML, CSS, Javascript.

Back-end development: Django and sqlite3.