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| **Karim Boukabbouz**  Fullstack Engineer  Email: [adkbitz@gmail.com](mailto:adkbitz@gmail.com)  Phone: +212 666 048 931 | **Requirements and Specifications** |

This project aims to build an application that will simplify, speed up and organize knowledge access and information entry.

The application will have 2 main components.

**Backoffice: Management & Configuration**

This component will allow the users to:

* Manage users
  + Create a new users
  + Edit a user: Change the name, password and access level ( User or Manager )
  + Delete a user
* Manage ready to use document templates
  + Create new templates
  + Edit existing templates
* Manage and edit **smart shortcuts** for intellisense and auto completion
  + Create new shortcuts
  + Edit existing shortcuts
* Manage Google Docs API configuration

**Client: Document Processor**

This component will contain a powerful engine to process content and make the document editing process a tool to access information as well as edit it, it will provide knowledge in real time.

This component will allow the users to:

* Manage their documents
  + Create a new document
  + Edit and Save an existing document
  + Delete a document
* Edit documents with a standard rich text editor as well as using smart shortcuts for auto data entry and completion
* Use pre-existing document templates
* Export the completed document to cloud storage (Ex: Google Docs)
* The ability to use keyboard shortcuts
* The ability to edit multiple documents at the same time

The client component will be built to be agnostic in terms of data sources, we will build and document a universal interface that is used to communicate with the data sources, such as our **own back office**, or any other existing application that can implement the required interface.

This will make the product possible to be integrated anywhere and with any existing technology which makes it future proof.

The client must be very fast in terms of performance and extremely easy in terms of usability and accessibility.

**Smart shortcuts**

These are simple shortcuts that the document processor will automatically recognize and replace with the associated data and content.

The content of these can be:

* Questions with multiple types of answers:
  + Phrases
  + Paragraphs
  + Numbers
  + Dates
  + Dropdown lists
  + Multiple Choices
* Pre-entered texts and paragraphs
* Ordered and unordered lists

**Document**

Each document will have the following associated metadata:

* Name
* Owner
* Creation time
* Last update time

**Document Template**

A template will be a document that contains smart shortcuts mixed with standard content

When a template is loaded into a document, all smart shortcuts will be automatically replaced with their respective content.

**Technology & Tools**

For the backend, the application will be developed using the PHP language and will use the MySQL database system for data storage.

An appropriate development Framework will be selected to simplify, secure and render the development future proof.

The client will be built using web technologies available in all major web browsers (JavaScript, HTML5 and CSS3), the following frameworks and libraries will be used:

* Vuejs (an MVVM framework to develop powerful web apps)
* Webpack (A build tool to organize the development process)
* SASS: a tool to speed up and simplify writing CSS code
* jQuery
* GIT for source code version control and change tracking.

**Cost Estimation and Project management**

To implement the features described in this document, I estimate the research, development, design and testing of this product will take an estimated **204 Hours**

If you decide to omit specific features, the workload may go down

If you decide to add more features or change the way a feature works, the workload may go up.

I can guarantee at least 4 hours of continuous work on the project, 6 days a week.

A recurring update meeting will be scheduled each end of the week to:

* Discuss current issues
* Show off progress
* Validate Mockups and Ideas
* Bill the amount of hours worked to be paid within the next 2-3 days.