

VERSION HISTORY

Version	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	Pierre Saint-Sorny	7/23/2017	Le père Noel	12/23/2017	Initial Design Definition draft
1.1	Fabien Gadet	7/24/2017	Pierre Saint-Sorny	7/24/2017	Alpha

TABLE OF CONTENTS

1	INTRODUCTION			
	1.1	Purpose of The Product Design Specification Document	4	
2	GENE	RAL OVERVIEW AND DESIGN GUIDELINES/APPROACH	4	
	2.1	Assumptions / Constraints / Standards	4	
3	ARCH	ITECTURE DESIGN	4	
	3.1	Logical View	4	
	3.2	Hardware Architecture	4	
	3.3	Software Architecture	4	
	3.4	Security Architecture	4	
	3.5	Communication Architecture	5	
	3.6	Performance	5	
4	SYSTE	EM DESIGN	5	
	4.1	Use-Cases	5	
	4.2	Database Design	5	
	4.3	Data Conversions Erreur ! Signet	non défini.	
5	PROD	UCT DESIGN SPECIFICATION APPROVAL	6	
Α	PPEND	IX A: REFERENCES	7	
Α	PPEND	IX B: KEY TERMS	8	

1 INTRODUCTION

1.1 PURPOSE OF THE PRODUCT DESIGN SPECIFICATION DOCUMENT

The Product Design Specification document documents and tracks the necessary information required to effectively define architecture and system design in order to give the development team guidance on architecture of the system to be developed. The Product Design Specification document is created during the Planning Phase of the project. Its intended audience is the project manager, project team, and development team. Some portions of this document such as the user interface (UI) may on occasion be shared with the client/user, and other stakeholder whose input/approval into the UI is needed.

2 GENERAL OVERVIEW AND DESIGN GUIDELINES/APPROACH

This section describes the principles and strategies to be used as guidelines when designing and implementing the system.

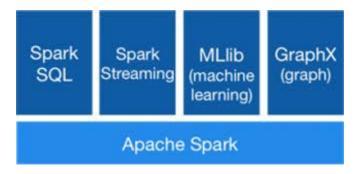
2.1 ASSUMPTIONS / CONSTRAINTS / STANDARDS

3 ARCHITECTURE DESIGN

This section outlines the system and hardware architecture design of the system that is being built.

- Back end interface
- Calculation platform
- Hearthbeat Data
- RDB: Patient info

3.1 LOGICAL VIEW



3.2 HARDWARE ARCHITECTURE

Spark

3.3 SOFTWARE ARCHITECTURE

Heartbeat Algorithm

3.4 SECURITY ARCHITECTURE

Preventions of usability

3.5 COMMUNICATION ARCHITECTURE

3.6 PERFORMANCE

High performance and usable software

4 SYSTEM DESIGN

4.1 USE-CASES

Circle

4.2 DATABASE DESIGN

Spark / Hight performance thanks to map reduce application

5 PRODUCT DESIGN SPECIFICATION APPROVAL

The undersigned acknowledge they have reviewed the REAL TIME ANALYTICS **Product Design Specification** document and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

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Appendix A: References

The following table summarizes the documents referenced in this document.

Document Name and Version	Description	Location
1.0	Analyzing project	China

Appendix B: Key Terms

The following table provides definitions for terms relevant to this document.

Term	Definition
HB Data	Heartbeat Data