Software Requirement Specification Jean-Philippe Eisenbarth jp@eisenbarth.io



Revision History

Name	Date	Reason For Changes	Version
Alan, Ben	2018/01/25	Initial planning	1.0
Alice, Cara	2018/02/15	Modified requirements	1.1

Table 1: Grade

	Stu		Grade	
Calculus	Name	ID	No.1	No.2
	Alan	1	85	80
	Ben	2	76	80
	Alice	3	94	90
	Cara	4	98	95

Purpose

Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the scope of the product that is covered by this SRS, particularly if this SRS describes only part of the system or a single subsystem.



Figure 1: YZU gate

Project Scope

Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies.

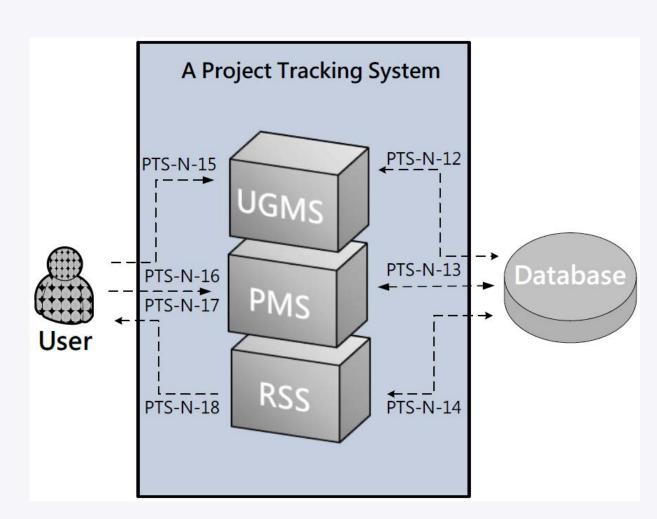


Figure 2: Frame

Product Perspective

Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product.

Implementation Constraints

Describe any items or issues that will limit the options available to the developers. These might include:

- Corporate or regulatory policies
- Hardware limitations
- Interfaces to other applications
- Specific technologies, tools, and databases to be used
- Parallel operations
- language requirements
- Communications protocols
- Security considerations
- Design conventions or programming standards

Software Interfaces

braries, and integrated components. commercial

Describe the connec- of communications. Retions between this prod- fer to documents that uct and other specific describe detailed applisoftware components cation programming in-(name and version), in-terface protocols. Idencluding databases, oper-tify data that will be ating systems, tools, li-shared across software If the compo- data sharing mechanism nents. Identify the data must be implemented in items or messages com- a specific way (for exing into the system and ample, use of a global going out and describe data area in a multitaskthe purpose of each. ing operating system), Describe the services specify this as an impleneeded and the nature mentation constraint.

Communications Interfaces

Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.



Figure 3: YZU Building 2

Nonfunctional Requirements

Performance Requirements If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices.

Safety Requirements Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product.

Security Requirements Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product.

Software Quality Attributes Specify any additional quality characteristics for the product that will be important to either the customers or the developers.



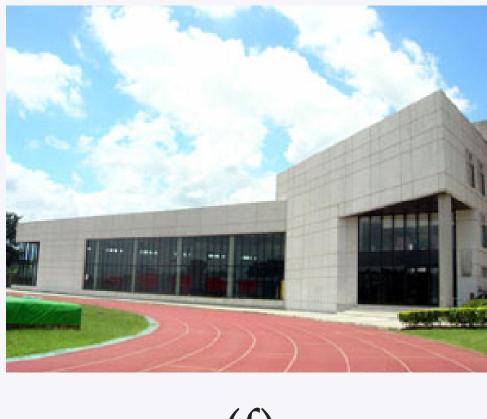
(a)











References

[1] J. Liu and G. Mei and X. Wu and J. Lü, "Robust Reconstruction of Continuously Time-Varying Topologies of Weighted Networks," *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. PP, no. 99, pp. 1–13, 2018