# Software Requirements Specification for Software Engineering: subtitle describing software

Team #22, TeleHealth Insights
Mitchell Weingust
Parisha Nizam
Promish Kandel
Jasmine Sun-Hu

October 2, 2024

# Contents

1	Purpose of the Project vi						
	1.1	User Business	vi				
	1.2	Goals of the Project	vi				
2	Stakeholders						
	2.1	Client	vi				
	2.2	Customer	vi				
	2.3	Other Stakeholders	vi				
	2.4	Hands-On Users of the Project	vi				
	2.5	Personas	vi				
	2.6	Priorities Assigned to Users	vi				
	2.7		vii				
	2.8	Maintenance Users and Service Technicians	vii				
3	Mandated Constraints vi						
	3.1	Solution Constraints	vii				
	3.2	Implementation Environment of the Current System	vii				
	3.3	Partner or Collaborative Applications	vii				
	3.4	Off-the-Shelf Software	vii				
	3.5	Anticipated Workplace Environment	vii				
	3.6	Schedule Constraints	vii				
	3.7	Budget Constraints	vii				
	3.8	Enterprise Constraints	⁄iii				
4	Naming Conventions and Terminology viii						
	4.1	Glossary of All Terms, Including Acronyms, Used by Stake-					
		holders involved in the Project	⁄iii				
5	Rel	evant Facts And Assumptions v	iii				
	5.1	Relevant Facts	/iii				
	5.2	Business Rules					
	5.3	Assumptions					
6	The	e Scope of the Work	iii				
	6.1	The Current Situation	/iii				
	6.2	The Context of the Work					
	6.3						

	6.4	Specifying a Business Use Case (BUC)	ix			
7	Bus	iness Data Model and Data Dictionary	ix			
	7.1	Business Data Model	ix			
	7.2	Data Dictionary	ix			
8	The	Scope of the Product	ix			
	8.1	Product Boundary	ix			
	8.2	Product Use Case Table	ix			
	8.3	Individual Product Use Cases (PUC's)	ix			
9	Fun	ctional Requirements	ix			
	9.1	Authentication	ix			
	9.2	System Setup	Х			
	9.3	User Interactions and Question Handling	Х			
	9.4	Data Collection and Storage	Х			
	9.5	Video and Audio Data Analysis	Х			
	9.6	Data Processing and Display	X			
<b>10</b>	Loo	k and Feel Requirements	xi			
	10.1	Appearance Requirements	хi			
	10.2	Style Requirements	xi			
11	Usability and Humanity Requirements x					
	11.1	Ease of Use Requirements	хi			
	11.2	Personalization and Internationalization Requirements	хi			
	11.3	Learning Requirements	хi			
	11.4	Understandability and Politeness Requirements	хi			
	11.5	Accessibility Requirements	хi			
12	Perf	formance Requirements	xi			
	12.1	Speed and Latency Requirements	хi			
	12.2	Safety-Critical Requirements	xii			
	12.3	Precision or Accuracy Requirements	xii			
			xii			
			xii			
			xii			
		· · · · · · · · · · · · · · · · · · ·	vii			

<b>13</b>	Operational and Environmental Requirements	xii
	13.1 Expected Physical Environment	xii
	13.2 Wider Environment Requirements	xii
	13.3 Requirements for Interfacing with Adjacent Systems	xiii
	13.4 Productization Requirements	xiii
	13.5 Release Requirements	xiii
<b>14</b>	Maintainability and Support Requirements	xiii
	14.1 Maintenance Requirements	
	14.2 Supportability Requirements	
	14.3 Adaptability Requirements	xiii
<b>15</b>	Security Requirements	xiii
	15.1 Access Requirements	xiii
	15.2 Integrity Requirements	xiii
	15.3 Privacy Requirements	xiv
	15.4 Audit Requirements	xiv
	15.5 Immunity Requirements	xiv
<b>16</b>		xiv
	16.1 Cultural Requirements	xiv
<b>17</b>	Compliance Requirements	xiv
	17.1 Legal Requirements	xiv
	17.2 Standards Compliance Requirements	
18	Open Issues	xiv
<b>19</b>	Off-the-Shelf Solutions	xiv
	19.1 Ready-Made Products	xiv
	19.2 Reusable Components	XV
	19.3 Products That Can Be Copied	XV
<b>20</b>	New Problems	$\mathbf{x}\mathbf{v}$
	20.1 Effects on the Current Environment	XV
	20.2 Effects on the Installed Systems	XV
	20.3 Potential User Problems	XV
	20.4 Limitations in the Anticipated Implementation Environment	
	That May Inhibit the New Product	XV

	20.5 Follow-Up Problems	ζV
<b>21</b>	Tasks	v
	21.1 Project Planning	ζV
	21.2 Planning of the Development Phases x	
<b>22</b>	Migration to the New Product	vi
	22.1 Requirements for Migration to the New Product x	vi
	22.2 Data That Has to be Modified or Translated for the New System $\mathbf{x}$	vi
<b>23</b>	Costs	vi
<b>24</b>	User Documentation and Training x	vi
	24.1 User Documentation Requirements x	vi
	24.2 Training Requirements	vi
<b>25</b>	Waiting Room x	vi
<b>26</b>	Ideas for Solution x	vi

# **Revision History**

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

# 1 Purpose of the Project

#### 1.1 User Business

Insert your content here.

#### 1.2 Goals of the Project

Insert your content here.

#### 2 Stakeholders

### 2.1 Client

Insert your content here.

#### 2.2 Customer

Insert your content here.

#### 2.3 Other Stakeholders

Insert your content here.

## 2.4 Hands-On Users of the Project

Insert your content here.

#### 2.5 Personas

Insert your content here.

# 2.6 Priorities Assigned to Users

#### 2.7 User Participation

Insert your content here.

#### 2.8 Maintenance Users and Service Technicians

Insert your content here.

#### 3 Mandated Constraints

#### 3.1 Solution Constraints

Insert your content here.

# 3.2 Implementation Environment of the Current System

Insert your content here.

## 3.3 Partner or Collaborative Applications

Insert your content here.

#### 3.4 Off-the-Shelf Software

Insert your content here.

# 3.5 Anticipated Workplace Environment

Insert your content here.

#### 3.6 Schedule Constraints

Insert your content here.

#### 3.7 Budget Constraints

#### 3.8 Enterprise Constraints

Insert your content here.

# 4 Naming Conventions and Terminology

4.1 Glossary of All Terms, Including Acronyms, Used by Stakeholders involved in the Project

Insert your content here.

## 5 Relevant Facts And Assumptions

#### 5.1 Relevant Facts

Insert your content here.

#### 5.2 Business Rules

Insert your content here.

#### 5.3 Assumptions

Insert your content here.

## 6 The Scope of the Work

#### 6.1 The Current Situation

Insert your content here.

#### 6.2 The Context of the Work

#### 6.3 Work Partitioning

Insert your content here.

#### 6.4 Specifying a Business Use Case (BUC)

Insert your content here.

# 7 Business Data Model and Data Dictionary

#### 7.1 Business Data Model

Insert your content here.

#### 7.2 Data Dictionary

Insert your content here.

# 8 The Scope of the Product

#### 8.1 Product Boundary

Insert your content here.

#### 8.2 Product Use Case Table

Insert your content here.

## 8.3 Individual Product Use Cases (PUC's)

Insert your content here.

## 9 Functional Requirements

#### 9.1 Authentication

A1: Description.

Insert formal Specification

Rational: Insert Rational

Fit criterion: Insert criterion here

#### 9.2 System Setup

SS1: Description.

Insert formal Specification Rational: Insert Rational

Fit criterion: Insert criterion here

## 9.3 User Interactions and Question Handling

UIQH1: Description.

Insert formal Specification Rational: Insert Rational

Fit criterion: Insert criterion here

### 9.4 Data Collection and Storage

DCS1: Description.

Insert formal Specification Rational: Insert Rational

Fit criterion: Insert criterion here

## 9.5 Video and Audio Data Analysis

VADA1: Description.

Insert formal Specification Rational: Insert Rational

Fit criterion: Insert criterion here

## 9.6 Data Processing and Display

DPD1: Description.

Insert formal Specification Rational: Insert Rational

Fit criterion: Insert criterion here

## 10 Look and Feel Requirements

#### 10.1 Appearance Requirements

Insert your content here.

#### 10.2 Style Requirements

Insert your content here.

## 11 Usability and Humanity Requirements

#### 11.1 Ease of Use Requirements

Insert your content here.

# 11.2 Personalization and Internationalization Requirements

Insert your content here.

## 11.3 Learning Requirements

Insert your content here.

### 11.4 Understandability and Politeness Requirements

Insert your content here.

## 11.5 Accessibility Requirements

Insert your content here.

# 12 Performance Requirements

## 12.1 Speed and Latency Requirements

#### 12.2 Safety-Critical Requirements

Insert your content here.

#### 12.3 Precision or Accuracy Requirements

Insert your content here.

#### 12.4 Robustness or Fault-Tolerance Requirements

Insert your content here.

#### 12.5 Capacity Requirements

Insert your content here.

#### 12.6 Scalability or Extensibility Requirements

Insert your content here.

#### 12.7 Longevity Requirements

Insert your content here.

# 13 Operational and Environmental Requirements

## 13.1 Expected Physical Environment

Insert your content here.

## 13.2 Wider Environment Requirements

# 13.3 Requirements for Interfacing with Adjacent Systems

Insert your content here.

#### 13.4 Productization Requirements

Insert your content here.

#### 13.5 Release Requirements

Insert your content here.

## 14 Maintainability and Support Requirements

#### 14.1 Maintenance Requirements

Insert your content here.

## 14.2 Supportability Requirements

Insert your content here.

#### 14.3 Adaptability Requirements

Insert your content here.

## 15 Security Requirements

## 15.1 Access Requirements

Insert your content here.

## 15.2 Integrity Requirements

#### 15.3 Privacy Requirements

Insert your content here.

#### 15.4 Audit Requirements

Insert your content here.

#### 15.5 Immunity Requirements

Insert your content here.

# 16 Cultural Requirements

#### 16.1 Cultural Requirements

Insert your content here.

# 17 Compliance Requirements

#### 17.1 Legal Requirements

Insert your content here.

## 17.2 Standards Compliance Requirements

Insert your content here.

## 18 Open Issues

Insert your content here.

# 19 Off-the-Shelf Solutions

## 19.1 Ready-Made Products

## 19.2 Reusable Components

Insert your content here.

### 19.3 Products That Can Be Copied

Insert your content here.

#### 20 New Problems

#### 20.1 Effects on the Current Environment

Insert your content here.

#### 20.2 Effects on the Installed Systems

Insert your content here.

#### 20.3 Potential User Problems

Insert your content here.

## 20.4 Limitations in the Anticipated Implementation Environment That May Inhibit the New Product

Insert your content here.

## 20.5 Follow-Up Problems

Insert your content here.

#### 21 Tasks

## 21.1 Project Planning

## 21.2 Planning of the Development Phases

Insert your content here.

## 22 Migration to the New Product

# 22.1 Requirements for Migration to the New Product

Insert your content here.

## 22.2 Data That Has to be Modified or Translated for the New System

Insert your content here.

#### 23 Costs

Insert your content here.

## 24 User Documentation and Training

#### 24.1 User Documentation Requirements

Insert your content here.

#### 24.2 Training Requirements

Insert your content here.

## 25 Waiting Room

Insert your content here.

## 26 Ideas for Solution

# Appendix — Reflection

The information in this section will be used to evaluate the team members on the graduate attribute of Lifelong Learning. Please answer the following questions:

- 1. What knowledge and skills will the team collectively need to acquire to successfully complete this capstone project? Examples of possible knowledge to acquire include domain specific knowledge from the domain of your application, or software engineering knowledge, mechatronics knowledge or computer science knowledge. Skills may be related to technology, or writing, or presentation, or team management, etc. You should look to identify at least one item for each team member.
- 2. For each of the knowledge areas and skills identified in the previous question, what are at least two approaches to acquiring the knowledge or mastering the skill? Of the identified approaches, which will each team member pursue, and why did they make this choice?