

Item Number	SRS-HRS-2017-01	Page
Version	1	COVER

DOCUMENT APPROVAL

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1. INTRODUCTION

1.1 PURPOSE

The purpose of this document is to provide a complete description of all the function, requirement and specification for the Heart Rate Sensor Using Raspberry With SMS Alert (HRS). It is also the method to be used to ensure that each requirement has been meet. Besides that, this document is also as a common point of reference for system expectation and intended for both stakeholders and the developers. During completion, the document will act as a binding contract between developer and users which will provide a common point of reference for the system expectation.

1.2 PROBLEM STATEMENT

Malaysia is surrounded by a variety of delicious foods that contribute to the increase in calories in our body. In addition, smoking habits also contribute to heart attack. Through the article on the website, a study was conducted which showed that malaysia had a very difficult habit that was "L.A.Z.Y". If we observed, many of us like to eat without stopping and not practicing the right diet. In addition, we are also very lazy to do exercises to get a health body, even lazy to see a doctor to do a check up.

Therefore, this project intend to detect heart rate per minute and display to them without going to the hospital to check up.

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1.3 REFERENCES

- i) IEEE STD 830-1998, "IEEE Recommended Practice for Software Requirement Specification", 1998 edition, IEEE, 1998.
- ii) Jeffrey A.Hoffer, J. F. (2010). *Modern System Analysis &Design*. Prentice-Hall.

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1.4 DOCUMENT OVERVIEW

This document outline is based on the IEEE Standard 830-1998 for Software Requirement Specification (SRS). The explanations of the SRS are divided in 4 chapters:-

Chapter 1 Introduction

This part is described about the purpose of this document and problem statement of the system. Also indicated in this chapter are the references for this document and overview for SRS.

Chapter 2 Overall Descriptions

This part is related with overall description of product perspective, product functions and user characteristic. This part also states the constraints and the assumption and dependencies of the system.

Chapter 3 Specific Requirements

This part is addition from the chapter 2 above. In this part the requirement of the system will be state clearly and more details. Each module description was accompanied with sequence diagram. In this part describe the external interface requirements, software product features, performance requirements and requirements traceability.

Chapter 4 Definitions, Acronyms, and Abbreviations

The definition and acronyms are listed to help user to know the definition and acronyms which are used in developing HRS.

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2. OVERALL DESCRIPTION

2.1 OVERVIEW

This section of the SRS should describe the general factors that affect the product and its requirements. This section does not state specific requirements. Instead, it provides a background for those requirements, which are defined in detail in Section 3 of the SRS, and makes them easier to understand.

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2.2 PRODUCT FUNCTIONS

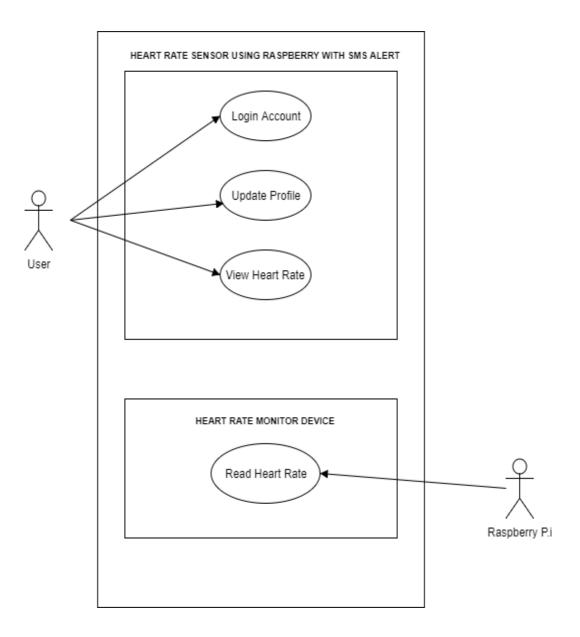


Figure 2.1: Functions that available in the HRS

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2.3 USER CHARACTERISTICS

There are some minimum characteristics that the target users must have in order to access the AMSUPIID application which are:

- i) The user must sign up and know the username and password that need to login to the system.
- ii) The GUI and user friendly system is provided to make easy for teachers and parents to use the system.
- iii) User must familiar and have knowledge in browsing internet to access the web base application system.

2.4 CONSTRAINTS

This subsection of the SRS should include a brief description on any item or condition that limits the developer in developing the system. There are few constraints confronted in order to meet the basic requirement of the system:

- i) User need to have mobile phone to receive SMS about heart rate.
- ii) User need to have the device to check the heart rate.

2.5 ASSUMPTIONS AND DEPENDENCIES

2.5.1 Assumption

All of the users are assumed that they are familiar with the computer and tools that will be use for the system. This system is

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developed for android application and users need to browse it using the internet.

2.5.2 Dependencies

The operation of Heart Rate Sensor using Raspberry pai with SMS Alert (HRS) depends on the network connection in order to function properly. HRS also depends on the configuration of the Android application and devices such as handphone and raspberry pai.

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3. SPECIFIC REQUIREMENTS

3.1 EXTERNAL INTERFACE REQUIREMENTS

3.1.1 User Interfaces

User interface is a very important part in a system and it is the part that interacts with user. The user interface is a key and determines the application usability; therefore user interface must be user friendly and meet the user requirements. This is required due to the reason of a user who is inexperience and limited knowledge in using the system. There will be different set of user interfaces display according to their role. This section will show and explain about the interface which will be used by the users of the system.

3.1.1.1 Log in Interfaces

User need to login into the Android application. Then, the application will display home page. User can select the menu option to continue this application.

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3.1.1.2 Update Profile Interfaces

User must login first. Then user need to choose update profile menu to update their profile. At this interface, user can change their phone number, email and update password.

3.1.1.3 View Heart Rate Interfaces

User must login first. Then user need to choose view Heart rate. At this interface, user can view their Heart Rate. Besides that, user will get the SMS notification as a references.

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3.1.2 Software Interface

This section identifies the type of software and its function that will be used to develop this system.

Software	Function
App Android invertor	- Construct the Android application
XAMPP	- Storing data in database.
Android application	- Web browser to view developed project.

 Table 3.1: Software Interface

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3.2 SOFTWARE PRODUCT FEATURES

3.2.1 Use Case for Login [SRS_HRS_REQ_100]

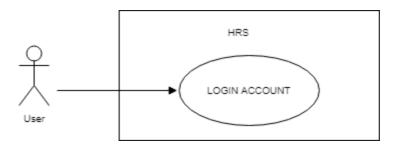


Figure 3.1: Use case for Login

3.2.1.1 Brief Description

Use case Login Account is used by users to authenticate themselves using their Google account before using the application. Figure 3.1 depicts the use case login Account.

3.2.1.2 Use Case Specification

Use case specification will discuss all detail about use case login account.

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History Log	1.0.0	1. Create initia	I use case			
Version	1.0.0					
Use Case ID	UC-1					
Use Case Name	Login Ac	count				
Created By	Solihin		Last Updated By	Solihin		
Date Created	19 .11. 20	017	Last Revision Date	20.11. 2017		
Actors	Users, Ar	ndroid				
Description	1)	User authenticate the	emselves before using the a	application		
Precondition	2. I	internet. User clicks on the ap	used has an active network	apps.		
Post-Condition	User succ	cessfully logged into	the HRS android applicati	on		
Normal Flow	1.0 Log I	Into System				
		The application of (SRS_REQ_101) User clicks on Login	displays a Login with	n Google+ button.		
	3)	The system submits	Intent for Google+ login to	Android.		
	4)	If Google+ App not	installed. [A-1: Google+	Web]		
		5) Android executes Google+ App.				
		from Google+. (SRS		4		
			sion to the application or Google+ account.	to retrieve profile		
			the user's profile with the	information received		
			ne screen with a message			
		health information.		•		

Table 3.2: Use case specification login

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Alternative Floew	1.0 A-1 Google+ Web
	The device used does not have the official Google+ App installed.
	1) The Android opens Google+ page using default browser.
	2) The system requests permissions from user to use profile information from Google+.Proceed with Step 6
Exception	No Exception flow

Table 3.2: Continue

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3.2.2 Use Case for Update Profile [SRS_HRS_REQ_200]

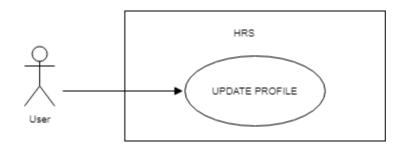


Figure 3.2: Use case Update Profile

3.2.2.1 Brief Description

Use case Updated Profile is used by users to input their personal and health profile to be used by application to provide health recommendations.

3.2.2.2 Use Case Specification

Use case specification will discuss all detail about use case Update profile.

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History Log	1.0.0 2. 0	Create initial use case			
Version	1.0.0				
Use Case ID	UC-2				
Use Case Name	Update Profile				
Created By	Solihin	Last Updated By	Solihin		
Date Created	19 .11. 2017	Last Revision Date	20.11. 2017		
Actors	Users				
Description	1) User update t	heir profile information			
Precondition	internet.	device used has an active network co	nnection to the		
Post-Condition	The user successf	ully updates their profile information	ı		
Normal Flow	2.0 Update profi	le			
	1) The user ente	ers the Profile screen of the HRS And	lroid application		
	2) The system d	etermines if the user's profile inform	nation is incomplete.		
	3) If profile is co	omplete. [A-1: Edit Profile]			
	4) User clicks of	n "Background".			
		equests for user's background profile Gender, No Telephone (SRS_REQ_2			
	6) User fills in t	heir background profile information	and clicks "Save".		
	7) The system returns to previous screen.				
	8) User clicks of	n "Heart Rate".			
		sts Heart Rate conditions such as pre S_RED_202).	esence of respiratory		
	10) User taps on	heart rate conditions that apply to the	em and clicks "Save".		
	11) The system s	aves the information to the database.			
	12) User leaves F	Profile screen.			

 Table 3.3: Use case specification update profile

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Alternative Floew	2.0 A-1 Google+ Web
	1) The user has filled in profile information previously.
	2) The system displays the saved profile information. (SRS_RED_203).
	3) If User clicks on "Background".
	a) The systems displays user's background profile information
	b) User edits personal profile information and clicks "Save".
	4) If User clicks on "Heart rate".
	a) The systems displays user's health profile information
	b) User edits health profile information and clicks "Save".
	Proceed with Step 10
Exception	No Exception flow

Table 3.3: Continue

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3.2.3 Use Case for View Heart Rate [SRS_HRS_REQ_300]

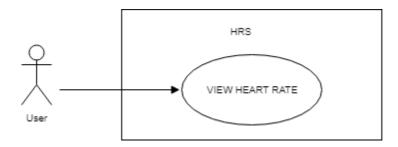


Figure 3.3: Use case view heart rate

3.2.3.1 Brief Description

Use case View Heart Rate is used by users to view their data heart rate. The data will replace new when user check up their new heart rate.

3.2.3.2 Use Case Specificatiin

Use case specification will discuss all detail about use case view heart rate.

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History Log	1.0.0	3. Create initia	l use case		
Version	1.0.0				
Use Case ID	UC-3				
Use Case Name	View Hea	rt Rate			
Created By	Solihin		Last Updated By	Solihin	
Date Created	19 .11. 20	17	Last Revision Date	20.11. 2017	
Actors	Users			I	
Description		able to view health	precautions based on their	health profile in the	
Precondition	The Android device used has an active network connection to the internet. The user is logged in to the system.				
Post-Condition	The user is able to view heart rate for the past until their not make a new heart rate.				
Normal Flow	3.0 View Heart Rate				
	1) The user enters the Home screen of the HRS Android application.				
		•	the server to refresh (SRS_REQ_301		
	,	•	the screen to refresh. (SRS) the new heart rate if user m	_	

 Table 3.4: Use case specification view Heart Rate

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Alternative Floew	No alternative flow
Exception	No Exception flow

Table 3.4: Continue

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3.2.4 Use Case Read Heart Rate [SRS_HRS_REQ_400]

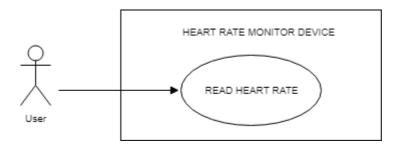


Figure 3.3: Use Case Read Heart Rate

3.2.4.1 Brief Description

Use case Read Heart Rate is used raspberry pai to read heart rate and send notification SMS to user.

3.2.4.2 Use Case Specification

Use case specification will discuss all detail about use case read heart rate.

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History Log	1.0.0 4.	Create initia	l use case	
Version	1.0.0			
Use Case ID	UC-4			
Use Case Name	Read Heart Ra	nte		
Created By	Solihin		Last Updated By	Solihin
Date Created	19 .11. 2017		Last Revision Date	20.11. 2017
Actors	Rasphberry pai			
Description	The rasphberry pai read the heart rate human			
Precondition	The raspberry pai prototype has an active network connection to the internet.			
Post-Condition	The current ras	sphberry pai co	oncentration read the heart	rate.
Normal Flow	 4.0 Read Heart Rate The Raspberry request for reading the heart rate (SRS_REQ_401) Rasphberry pai calculate the heart rate per minute (SRS_REQ_402) Raspberry pai send SMS alert to user mobile and android app (SRS_REQ_403). 			
Alternative Flow	No alternative	Flow		
Exception	No exception f	flow		

 Table 3.5: Use case specification Read Heart Rate

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3.3 PERFORMANCE REQUIREMENTS

This system will be built using app Androind Inverter. It will be built as a android application.

- i) Internet is needed in order to access onto the HRS system.
- ii) Exception handling and error handling must be implemented to show user the error.
- iii) User guidance must be showed when errors occur and provides contextsensitive user help instructions.

3.4 REQUIREMENT TRACEBILITY MATRIX

This section will discuss Requirement Tracebility Matrix for system will develop.

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REQUIREMENTS	DESCRIPTION
SRS_REQ_100	Login
SRS_REQ_101	The system shall allow users to login with their Google account.
SRS_REQ_102	The system shall retrieve profile information from user's Google+ account.
SRS_REQ_103	The system shall not allow users to login without an active internet connection
SRS_REQ_104	The system shall allow users to stay logged in
SRS_REQ_200	Update profile
RS_REQ_201	The system shall request for user's personal profile information such as Name, Age, Gender, email and No hanphone
SRS_REQ_202	The system shall request for user's health profile information such as Heart rate per minute and ills history
SRS_REQ_203	User shall be able to view saved personal profile information.
SRS_REQ_204	User shall be able to edit saved personal profile information.
SRS_REQ_205	User shall be able to view saved health profile information
SRS_REQ_206	User shall be able to edit saved health profile information.
SRS_REQ_207	The system shall not allow users to update personal profile information without an active internet connection
SRS_REQ_208	The system shall not allow users to update health profile information without an active internet connection

Table 3.6: Requirement Tracebility Matrix

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REQUIREMENTS	DESCRIPTION
SRS_REQ_300	View Heart Rate
SRS_REQ_301	The system shall allow users to view heart rate.
SRS_REQ_302	The system shall allow users to get alert notifications when the rate reaches unhealthy level and health level
SRS_REQ_303	The system shall allow users refresh and get new heart rate when they make a new heart rate.
SRS_REQ_400	Read Heart Rate
SRS_REQ_401	Heart Rate monitor sensor device shall read heart rate from user.
SRS_REQ_402	Heart rate monitor sensor can calculate heart rate per minute
SRS_REQ_403	Heart rate monitor sensor able to send SMS alert to user

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4. **DEFINITIONS, ACRONYMS, AND ABBREVIATIONS**

4.1 Definition

No.	Glossary	Definition
2	MySQL	MySQL is a relational database management system (RDBMS) which has more than 6 million installations.
3	phpMyAdmin	phpMyAdmin is a tool written in PHP intended to handle the administration of MySQL over the Web.

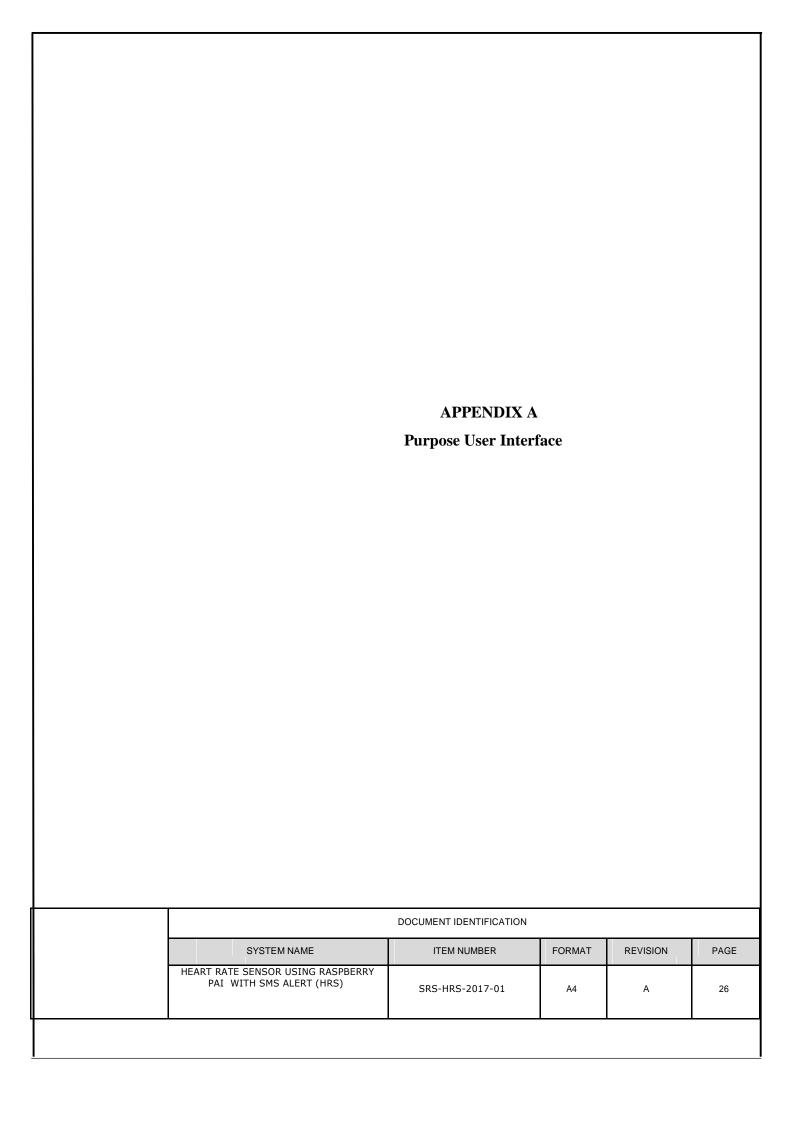
Table 4.1: Definition

4.2 Acronyms

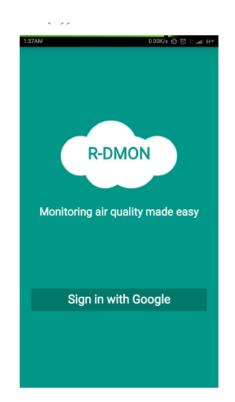
No.	Abbreviation	Definition
1	SRS	Software Requirement Specifications
2	HRS	Heart Rate Sensor using raspberry with SMS Alert
3	PIID	New proposed methodology which is combination
6	REQ	Requirement
7	PHP	Hypertext Preprocessor

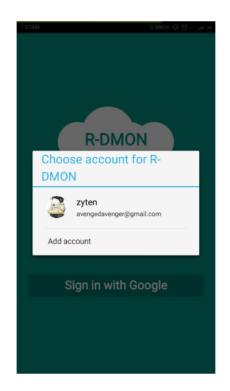
Table 4.2: Acronyms

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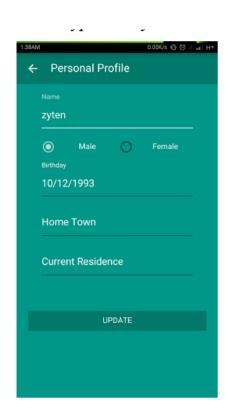


PURPOSE LOGIN INTERFACE





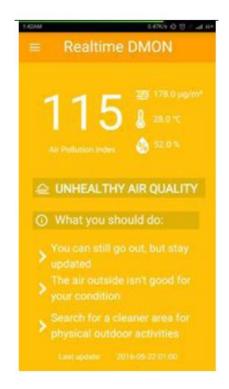
PURPOSE UPDATE PROFIL INTERFACE





PURPOSE VIEW HEART RATE





PURPOSE READ HEART RATE

