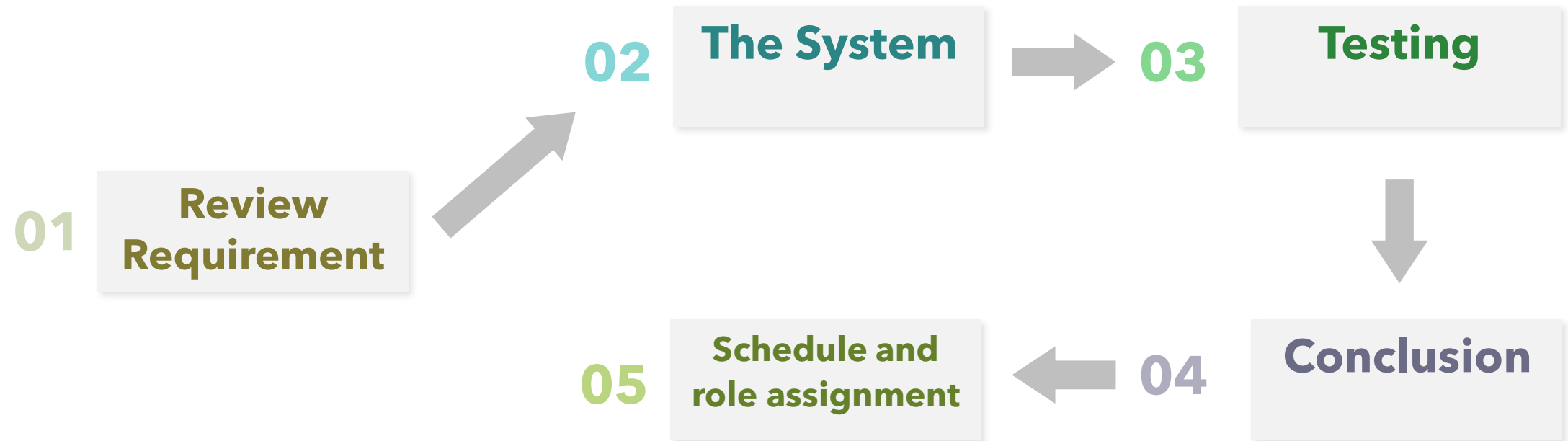


Dashboard for Monitoring and Signaling Elder's Heart Disease



Outline



01

Review Requirement

Review Requirement

Stakeholders

- Hospital, Organizations, and Families

Users

- Doctors , Organizations , Elders, and Families

Your goal

- To identify elder's heart disease before it happen

The input to your system

- Behavior data, sensor data and medical inspection result

The output of your system

- Dashboard and Signal

Technologies do you need to achieve your goal

- Big data and Machine learning

The goal of your team

What is the problem in Thailand you tried to solve?

- We **choose** Acute Coronary Syndrome-ACS in Elder.

How did you attempt to solve that problem?

- We **create** a **tool** to identify the problem before it happen.

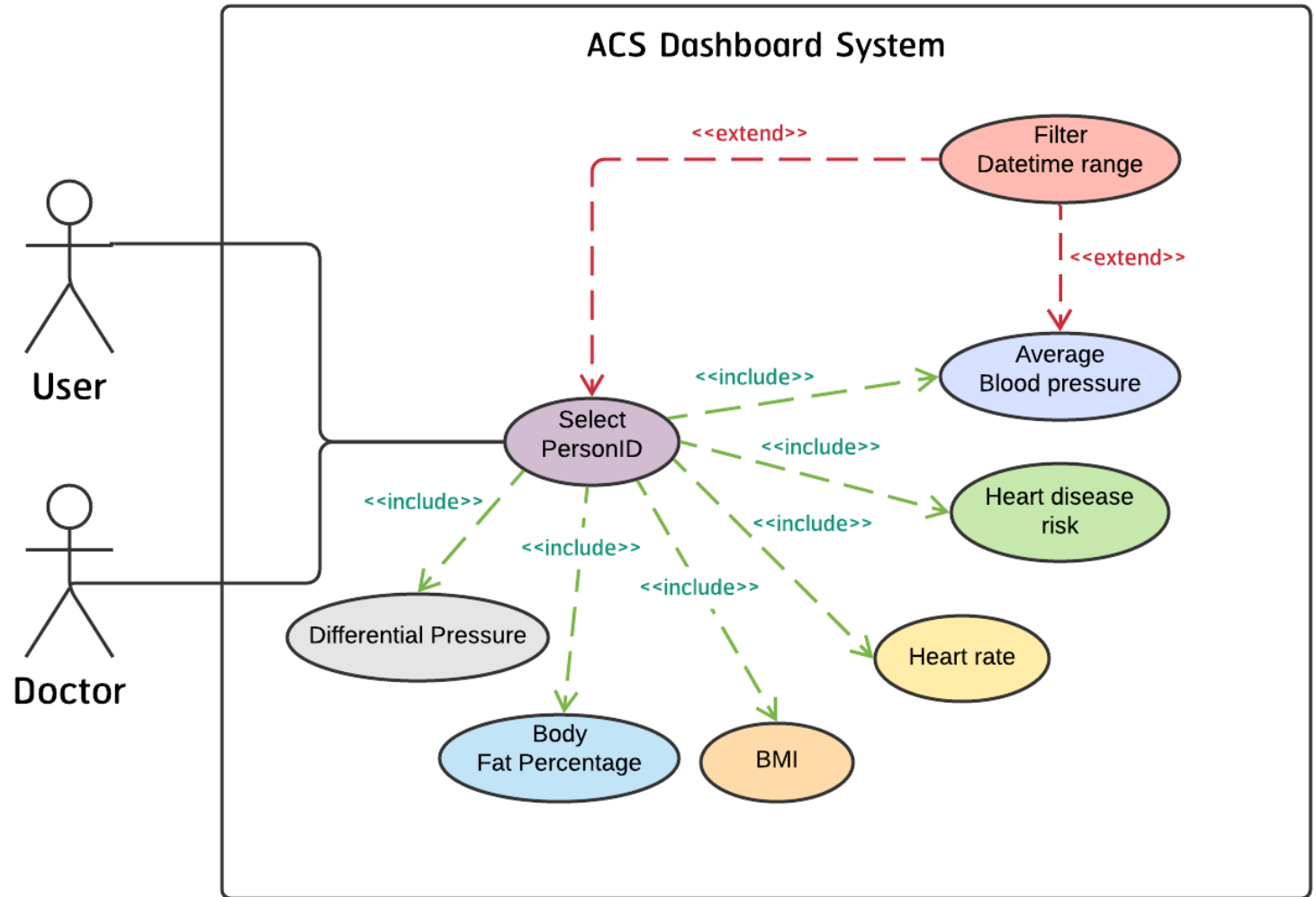
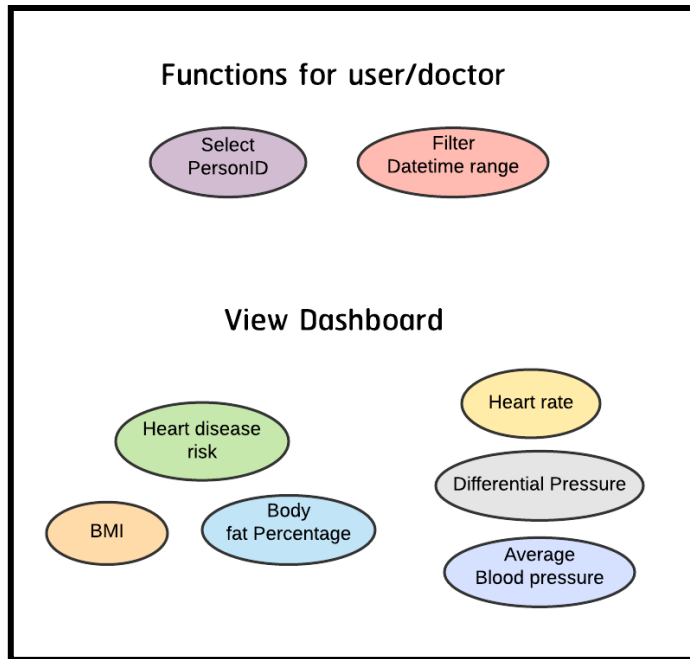
What impact on the society did you expect your system to have?

- We **expect** that this **tool** can decrease deaths in Acute Coronary Syndrome-ACS more than 10%.



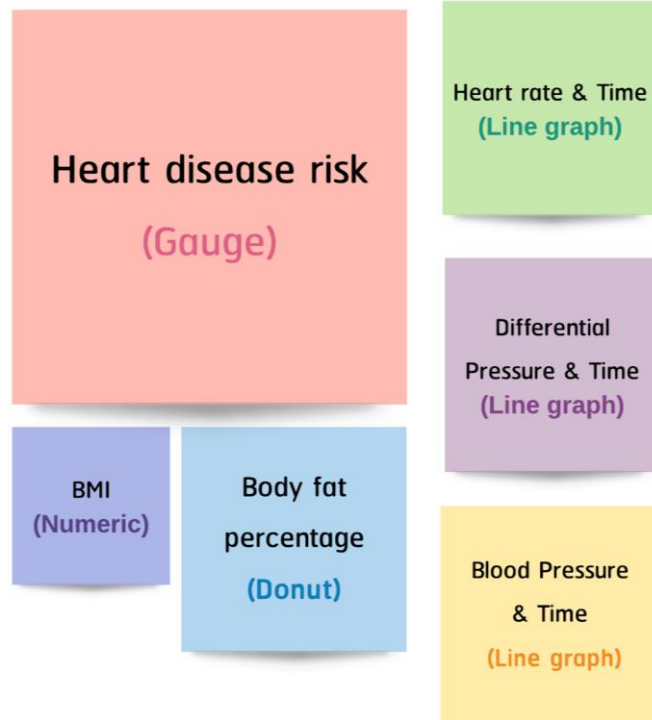
02 The System

Use case

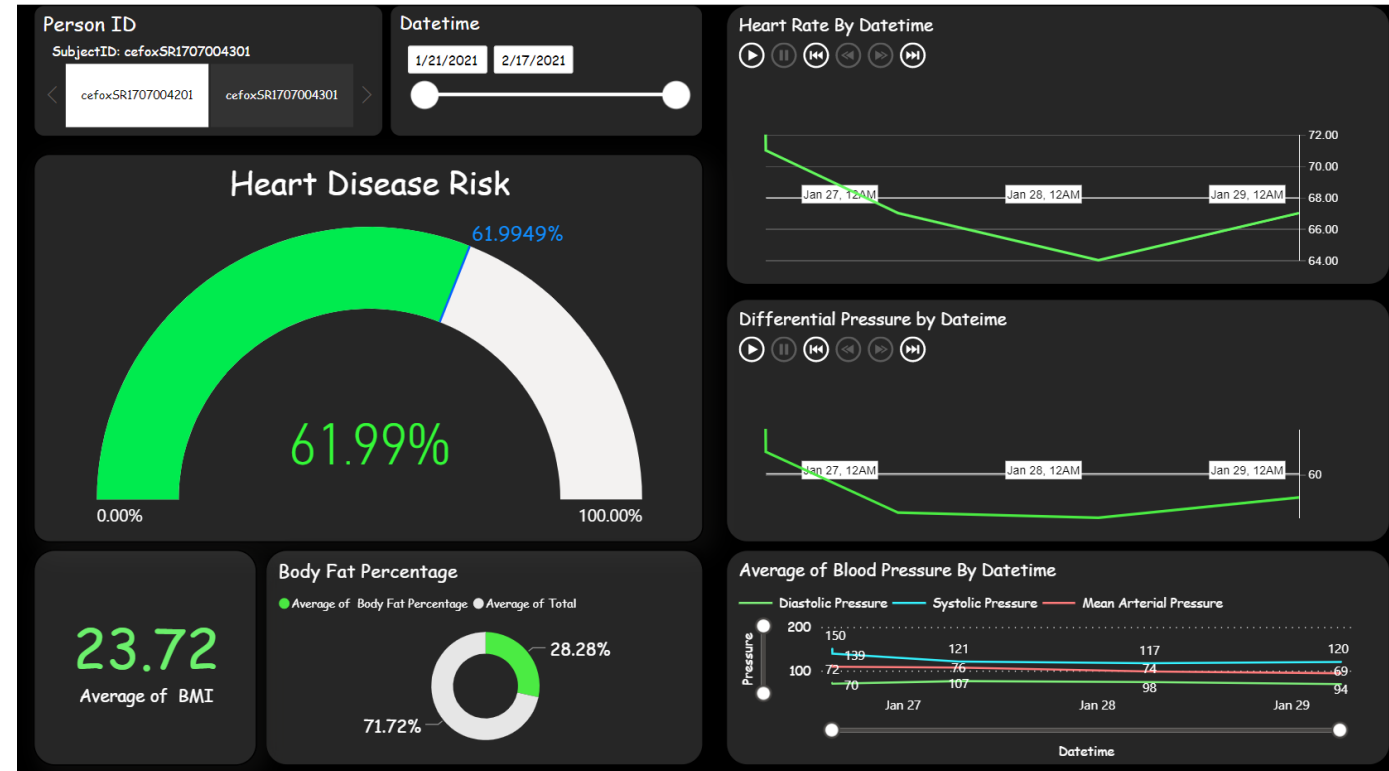


Visualization

Query design



Dashboard design



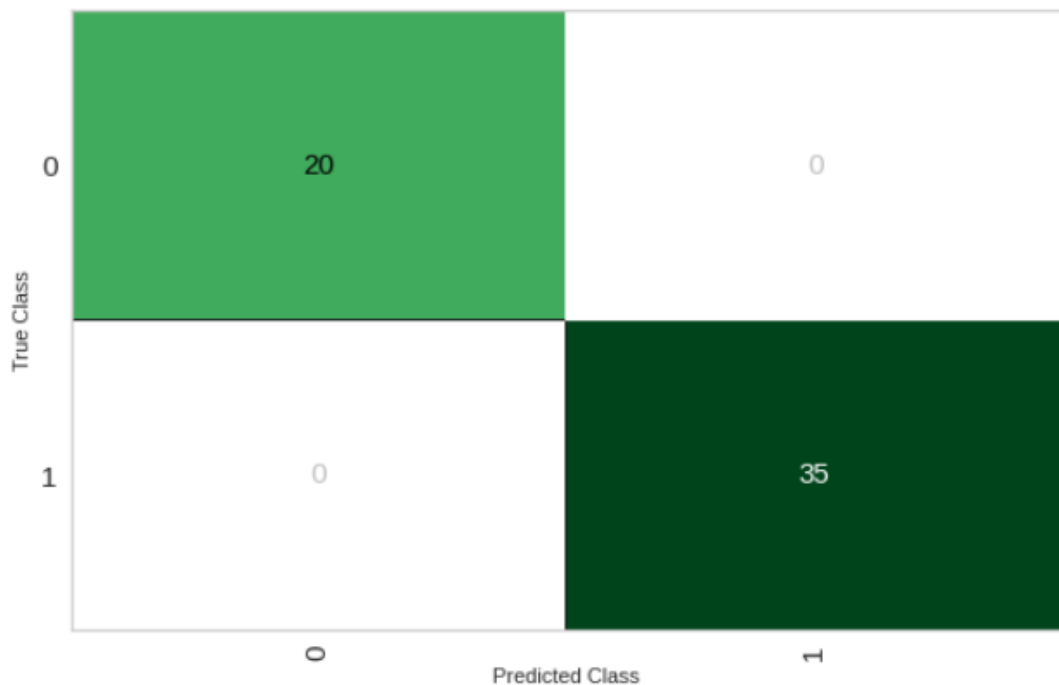
Dashboard Link

<https://app.powerbi.com/view?r=eyJrIjojMTlmZWYzZjAtMDE1Yi00NTM1LWlyYWltMWRlMzliNGI0ODU4IiwidCI6IjZmNDQzMmRjLTlwZDltNDQxZC1iMWRiLWFjMzM4MGJhNjMzZCIsImMiOjEwJmVwQ%3D%3D&embedImagePlaceholder=true>

03 Testing

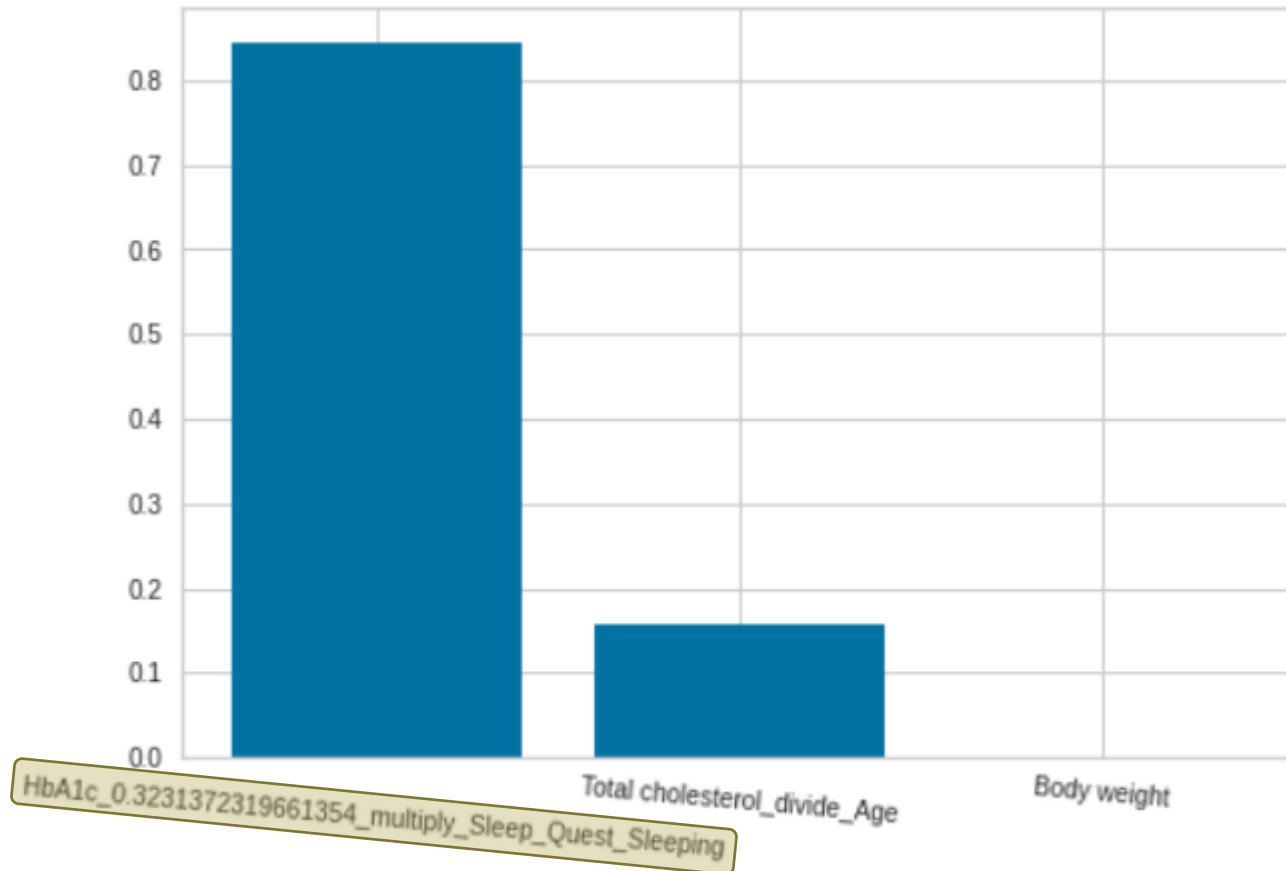
Operation test result

Confusion Matrix



10-Fold Cross Validation


	Accuracy	AUC	Recall	Prec.	F1	Kappa	MCC
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Feature
Importance

The way of the test

White Box Testing

Project Name: Dashboard for monitoring and signaling elder's heart disease Module Name: Pipeline and Dashboard Created by: Natchapol and Natchariya Date of creation: 1/3/2021 Date of review: 12/05/2021 to 20/05/2021						 DR.FUZE			
TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
1	Trigger pipeline	Trigger pipeline every 1 minute	1. Access permission to data factory	1. Set trigger time 2. Click trigger 3. Wait for result shown		Pipeline run successfully after 1 minutes	Data in blob storage updated after 1 minutes	Pipeline run successfully after 1 minutes	Pass
2	Trigger pipeline	Trigger pipeline every 5 minute	1. Access permission to data factory	1. Set trigger time 2. Click trigger 3. Wait for result shown		Pipeline run successfully after 5 minutes	Data in blob storage updated after 5 minutes	Pipeline run successfully after 5 minutes	Pass
3	Trigger pipeline	Trigger pipeline every 15 minute	1. Access permission to data factory	1. Set trigger time 2. Click trigger 3. Wait for result shown		Pipeline run successfully after 15 minutes	Data in blob storage updated after 15 minutes	Pipeline run successfully after 15 minutes	Pass
4	Dashboard	Change person ID		1. Specify person ID		Dashboard view change to that person ID		Dashboard view change to that person ID	Pass
5	Dashboard	Filter range of Datetime		1. Specify range of Datetime		Dashboard view change to that range of datetime		Dashboard view change to that range of datetime	Pass
6	Dashboard	Adjust value at Average of blood pressure	1. Choose person ID 2. Heart rate and Differential pressure play finished	1. Specify person ID 2. Wait for Heart rate and Differential pressure play finished 3. Click on Average of blood pressure graph 4. Adjust pressure value 5. Wait for result shown		Dashboard view Adjust value at Average of blood pressure	Graph on Heart rate and Differential pressure played finish.	Dashboard view Adjust value at Average of blood pressure	Pass

Q&A



Why did you choose that way ?

To ensure that there is no problem about connection.



What did you want to confirm through the test?

To ensure that all function work and connected.



04 Conclusion

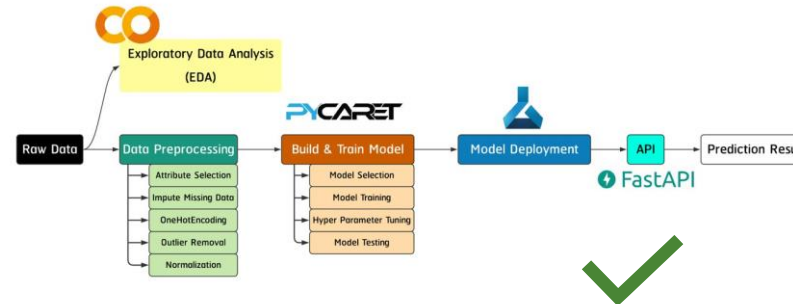
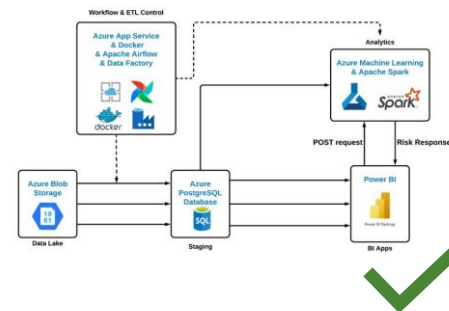
01 Have you achieved your goal?



Achievement degree for the overall activity



Achievement degree of your system



02

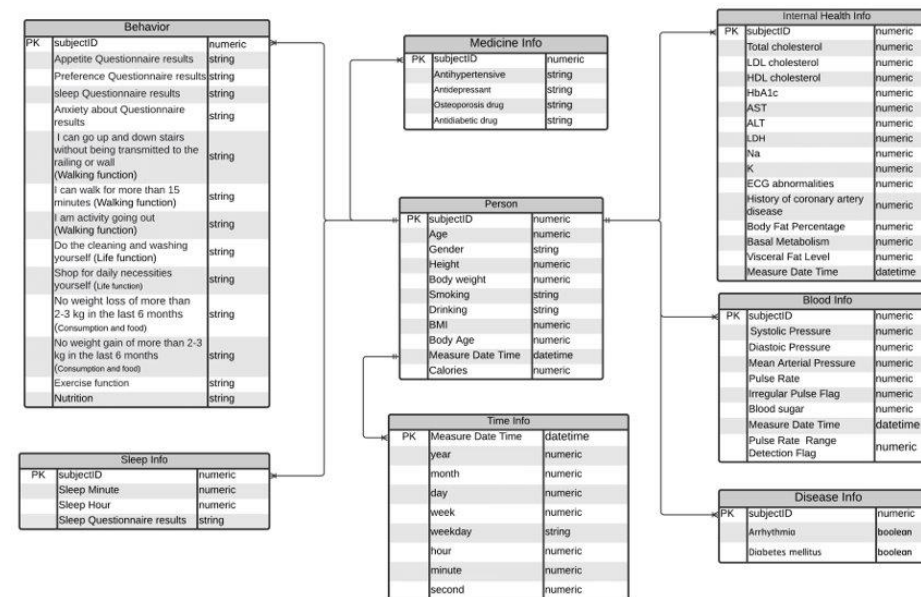
How did you Improve your system or development process when you faced problems?



What problem occurred?



Who and how solved that problem?



03 What are remaining issues for your system?

What is the remaining problem for your system?



How can you solve that problem in the future?



05

Schedule and Role assignment

Finished

Working Process																				
Project Lead : Mr.Natchapol Patamawisut (Bank)										Start Project : 1/3/2021									Done	
Secretary : Ms.Natchariya Wongamnuayporn (Kao)										Finish Project : 31/5/2021									In Process	
																	Late			
Scurm Master : Kao & Project Manager : Bank																			Not assign	
Work description	Assign to	Start Date	Mar-21				Apr-21				May-21				Percent (%)	Finish Date	Period Days	Note		
			1	2	3	4	1	2	3	4	1	2	3	4						
Sprint1 : Conceptual design (1/3/2021 - 31/3/2021)																				
Get requirement	All member	1/3/2021													100%	3/3/2021	2			
Midterm Exam	All member	8/3/2021													NA	12/3/2021	5	Midterm Exam		
Requirement Document	Kao,Bank	15/3/2021													100%	20/3/2021	5			
Meeting	All member	27/3/2021													100%	28/3/2021	1			
Presentation	All member	31/3/2021													100%	31/3/2021	1	End Sprint 1		

Finished

Sprint2 : System design (31/3/2021 - 26/4/2021)																						
Meeting	All member	31/3/2021																	100%	31/3/2021	1	
Create IaC	Eye	31/3/2021																	100%	I : 4/4/2021 (II : 10/4/2021)(III : 18/4/2021)(IV : 21/4/2021)(V : 25/4/2021	~ 19	Blob Storage , PostgreSQL and Data warehouse
Programming	Bank	31/3/2021																	100%	4/4/2021	5	Manage data to match the data
Demo Visualization	Kao,New	31/3/2021																	100%	4/4/2021	5	
Demo Docker	Fuze	31/3/2021																	100%	5/4/2021	6	
Meeting	All member	4/4/2021																	100%	4/4/2021	1	Update work
Extract and load Data	Fuze	5/4/2021																	100%	21/4/2021	16	Upload & Download
Visualization	Kao,New	5/4/2021																	100%	18/4/2021	13	Dashboard
Power BI POST request API	Kao	12/4/2021																	100%	22/4/2021	10	
Machine Learning	Bank	5/4/2021																	100%	18/4/2021	13	
Testing & Report	Kao,Bank	19/4/2021																	100%	20/4/2021	1	
Presentation	All member	26/4/2021																	100%	26/4/2021	1	End Sprint 2

Finished

Sprint3 : Implement & Deployment (26/4/2021 - 10/5/2021)																						
Meetings	All member	26/4/2021																	100%	26/4/2021	1	
New Model	Bank	2/5/2021																	100%	9/5/2021	7	
Airflow	Bank	26/4/2021																	100%	2/5/2021	6	Automate workflow
Deploy Airflow	Fuze	2/5/2021																	100%	9/5/2021	7	
Data Factories	Kao	2/5/2021																	100%	11/5/2021	9	Transform Data
Data Label	Eye	2/5/2021																	100%	7/5/2021	5	
Testing	Kao,Bank	4/5/2021																	100%	11/5/2021	7	
End Sprint 3	All member	10/5/2021																	100%	10/5/2021	1	End Sprint 3

Working Step

Sprint 4 : Testing (10/5/2021 - 7/6/2021)																						
Meetings	All member	12/5/2021																	100%	12/5/2021	1	
Testing Model	Bank	12/5/2021																	100%	20/5/2021	8	
Testing Pipeline	Eye	12/5/2021																	100%	20/5/2021	8	
Testing Infrastructure	Fuze	12/5/2021																	100%	20/5/2021	8	
Testing Dashboard	New	12/5/2021																	100%	20/5/2021	8	
Testing & Report	Kao,Bank	19/5/2021																	100%	21/5/2021	3	All testing & Report
Final Presentation	All member	5/6/2021																	100%	5/6/2021	1	End Sprint 4

Members & Responsibility



Ms.Natchariya Wongamnuayporn
(Kao)
61070507204



Mr.Natchapol Patamawisut
(Bank)
61070507205



Ms.Thanaporn Cheenthada
(Eye)
61070507209



Mr. Rungwigrat Payakkanuwat
(New)
61070507219



Mr. Prakasit Chaiphet
(Fuze)
61070507230

Responsibility

Bank : Leader , Programmer

Kao : Secretary , Tester

Eye : Infrastructure

New : Designer

Fuze : Deployment

Reference

- <https://www.siphhospital.com/th/news/article/share/857/Acutecoronarysyndrome>
- <https://www.mayoclinic.org/diseases-conditions/acute-coronary-syndrome/symptoms-causes/syc-20352136#:~:text=Acute%20coronary%20syndrome%20is%20a,damaged%20or%20destroyed%20heart%20tissue.>
- <https://www.heart.org/en/health-topics/heart-attack/about-heart-attacks/acute-coronary-syndrome>