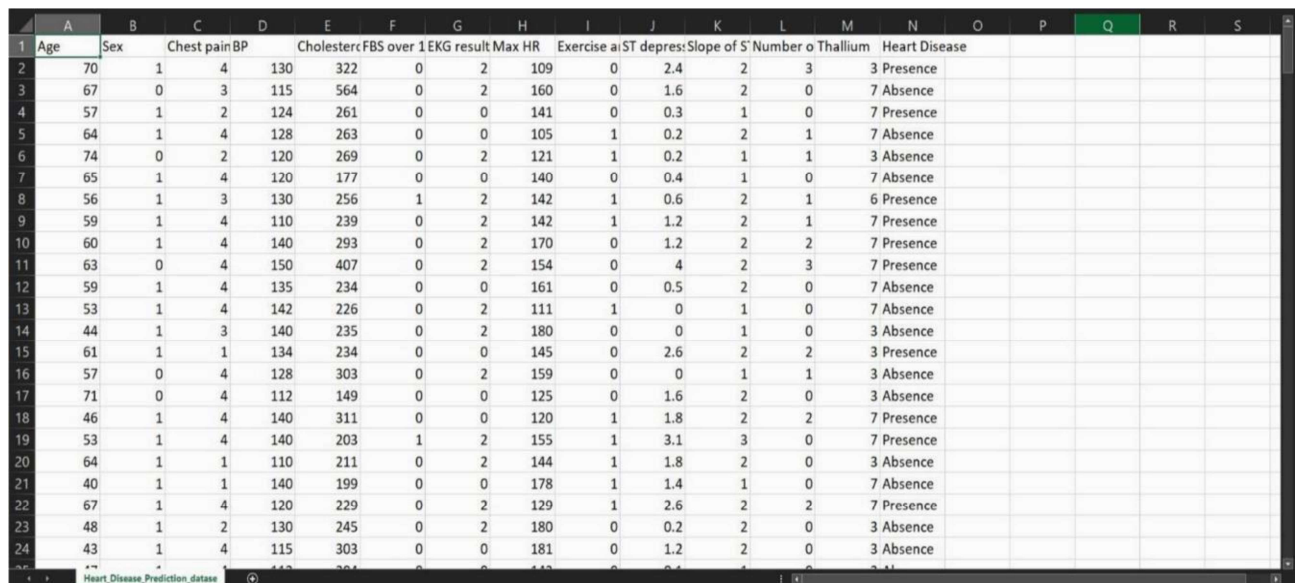


## Project Development Phase

### SPRINT – I

Date	25 October 2022
Team ID	PNT2022TMID05006
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board

#### DATASET:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Age	Sex	Chest pain	BP	Cholesterol	FBS over 1	EKG result	Max HR	Exercise	ST depress	Slope of ST	Number of	Thallium	Heart Disease					
2	70	1	4	130	322	0	2	109	0	2.4	2	3	3	Presence					
3	67	0	3	115	564	0	2	160	0	1.6	2	0	7	Absence					
4	57	1	2	124	261	0	0	141	0	0.3	1	0	7	Presence					
5	64	1	4	128	263	0	0	105	1	0.2	2	1	7	Absence					
6	74	0	2	120	269	0	2	121	1	0.2	1	1	3	Absence					
7	65	1	4	120	177	0	0	140	0	0.4	1	0	7	Absence					
8	56	1	3	130	256	1	2	142	1	0.6	2	1	6	Presence					
9	59	1	4	110	239	0	2	142	1	1.2	2	1	7	Presence					
10	60	1	4	140	293	0	2	170	0	1.2	2	2	7	Presence					
11	63	0	4	150	407	0	2	154	0	4	2	3	7	Presence					
12	59	1	4	135	234	0	0	161	0	0.5	2	0	7	Absence					
13	53	1	4	142	226	0	2	111	1	0	1	0	7	Absence					
14	44	1	3	140	235	0	2	180	0	0	1	0	3	Absence					
15	61	1	1	134	234	0	0	145	0	2.6	2	2	3	Presence					
16	57	0	4	128	303	0	2	159	0	0	1	1	3	Absence					
17	71	0	4	112	149	0	0	125	0	1.6	2	0	3	Absence					
18	46	1	4	140	311	0	0	120	1	1.8	2	2	7	Presence					
19	53	1	4	140	203	1	2	155	1	3.1	3	0	7	Presence					
20	64	1	1	110	211	0	2	144	1	1.8	2	0	3	Absence					
21	40	1	1	140	199	0	0	178	1	1.4	1	0	7	Absence					
22	67	1	4	120	229	0	2	129	1	2.6	2	2	7	Presence					
23	48	1	2	130	245	0	2	180	0	0.2	2	0	3	Absence					
24	43	1	4	115	303	0	0	181	0	1.2	2	0	3	Absence					

NUMBER OF ROWS IN OUR DATASET: 271

NUMBER OF PARAMETER: 14

#### PARAMETER DESCRIPTION:

COLUMN	DESCRIPTION
Age	Patient's age
Sex	Patient's sex
Chest pain	Number of times the chest pain has occurred
BP	Patient's Blood pressure

cholesterol	Patient's Cholesterol level
FBS over 120	Patient's fasting blood sugar level over 120
EKG results	Electrocardiogram result of the patient
Max HR	Patient's maximum heart rate level
Exercise angina	Pain in the chest because of exercise, stress...etc
ST depression	ST segment depression
Slope of ST	Slope of ST segment
Number of vessels fluoro	To diagnose the vessels
Thallium	Thallium test is done for cardiac imaging studies
Heart Disease	Presence/Absence of heart disease

## TRAINING DATA:

NUMBER OF ROWS: 250

NUMBER OF PARAMETER: 13

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Age	Sex	Chest pain	BP	Cholesterol	FBS over 120	EKG result	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels	Thallium	Heart Disease					
2	70	1	4	130	322	0	2	109	0	2.4	2	3	3	Presence					
3	67	0	3	115	564	0	2	160	0	1.6	2	0	7	Absence					
4	57	1	2	124	261	0	0	141	0	0.3	1	0	7	Presence					
5	64	1	4	128	263	0	0	105	1	0.2	2	1	7	Absence					
6	74	0	2	120	269	0	2	121	1	0.2	1	1	3	Absence					
7	65	1	4	120	177	0	0	140	0	0.4	1	0	7	Absence					
8	56	1	3	130	256	1	2	142	1	0.6	2	1	6	Presence					
9	59	1	4	110	239	0	2	142	1	1.2	2	1	7	Presence					
10	60	1	4	140	293	0	2	170	0	1.2	2	2	7	Presence					
11	63	0	4	150	407	0	2	154	0	4	2	3	7	Presence					
12	59	1	4	135	234	0	0	161	0	0.5	2	0	7	Absence					
13	53	1	4	142	226	0	2	111	1	0	1	0	7	Absence					
14	44	1	3	140	235	0	2	180	0	0	1	0	3	Absence					
15	61	1	1	134	234	0	0	145	0	2.6	2	2	3	Presence					
16	57	0	4	128	303	0	2	159	0	0	1	1	3	Absence					
17	71	0	4	112	149	0	0	125	0	1.6	2	0	3	Absence					
18	46	1	4	140	311	0	0	120	1	1.8	2	2	7	Presence					
19	53	1	4	140	203	1	2	155	1	3.1	3	0	7	Presence					
20	64	1	1	110	211	0	2	144	1	1.8	2	0	3	Absence					
21	40	1	1	140	199	0	0	178	1	1.4	1	0	7	Absence					
22	67	1	4	120	229	0	2	129	1	2.6	2	2	7	Presence					
23	48	1	2	130	245	0	2	180	0	0.2	2	0	3	Absence					
24	43	1	4	115	303	0	0	181	0	1.2	2	0	3	Absence					

## TESTING DATA:

NUMBER OF ROWS: 250

NUMBER OF PARAMETER: 13

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Age	Sex	Chest pain	BP	Cholesterol	FBS over 1	EKG result	Max HR	Exercise ang	ST depress	Slope of S	Number of	Thallium
2	70	1	4	130	322	0	2	109	0	2.4	2	3	3
3	67	0	3	115	564	0	2	160	0	1.6	2	0	7
4	57	1	2	124	261	0	0	141	0	0.3	1	0	7
5	64	1	4	128	263	0	0	105	1	0.2	2	1	7
6	74	0	2	120	269	0	2	121	1	0.2	1	1	3
7	65	1	4	120	177	0	0	140	0	0.4	1	0	7
8	56	1	3	130	256	1	2	142	1	0.6	2	1	6
9	59	1	4	110	239	0	2	142	1	1.2	2	1	7
10	60	1	4	140	293	0	2	170	0	1.2	2	2	7
11	63	0	4	150	407	0	2	154	0	4	2	3	7
12	59	1	4	135	234	0	0	161	0	0.5	2	0	7
13	53	1	4	142	226	0	2	111	1	0	1	0	7
14	44	1	3	140	235	0	2	180	0	0	1	0	3
15	61	1	1	134	234	0	0	145	0	2.6	2	2	3
16	57	0	4	128	303	0	2	159	0	0	1	1	3
17	71	0	4	112	149	0	0	125	0	1.6	2	0	3
18	46	1	4	140	311	0	0	120	1	1.8	2	2	7
19	53	1	4	140	203	1	2	155	1	3.1	3	0	7
20	64	1	1	110	211	0	2	144	1	1.8	2	0	3
21	40	1	1	140	199	0	0	178	1	1.4	1	0	7
22	67	1	4	120	229	0	2	129	1	2.6	2	2	7
23	48	1	2	130	245	0	2	180	0	0.2	2	0	3
24	43	1	4	115	303	0	0	181	0	1.2	2	0	3
25	47	1	4	112	204	0	0	143	0	0.1	1	0	3
26	54	0	2	132	288	1	2	159	1	0	1	1	3
27	48	0	3	130	275	0	0	139	0	0.2	1	0	3
28	46	0	4	138	243	0	2	152	1	0	2	0	3
29	51	0	3	120	295	0	2	157	0	0.6	1	0	3
30	58	1	3	112	230	0	2	165	0	2.5	2	1	7
31	71	0	3	110	265	1	2	130	0	0	1	1	3
32	57	1	3	128	229	0	2	150	0	0.4	2	1	7
33	66	1	4	160	228	0	2	138	0	2.3	1	0	6
34	37	0	3	120	215	0	0	170	0	0	1	0	3
35	59	1	4	170	326	0	2	140	1	3.4	3	0	7

Heart\_Disease\_Prediction\_dataset