

Portable Patient Healthcare and Monitoring system

It is a Portable **Patient Health Care and ICU Patient Monitoring** device used to do regular primary health checkups of a person and monitors critically ill persons who are not able to get to the ICU. This device integrates Body Mass Index (BMI), Blood pressure, Digital Stethoscope, Glucometer (for blood sugar level), Oximeter(SPO2 & Heart rate) , IR Thermometer (Body Temperature), Electrocardiogram (ECG Sensor) and ETCO2 Sensor (Breathing Rate). It can be used as an **ICU Patient monitor** at the time of any emergency or any catastrophic events like Earthquake, Floods and Storms and can monitor ICU patient for small hospitals and govt. primary health care units. The device can be connected to the **expert doctor** from distant through **Internet of things (IOT) technology** based **web server** who can give advices to the local doctor for handling critically ill ICU patients.

Model with Proposed features

- It is a handy and portable device having **10 inch LCD** touch screen display
- This **windows GUI** based device works in two modes **Normal Mode** (Regular Health Care) & **ICU Mode** for Health monitoring of critically ill patients.
- It gives **Artificial Intelligence(AI)** based Automatic Diagnostic Advices to the regular patient.
- Patient can be monitored from distant through **Internet of things (IOT)** based **Web server**
- Patient can also be monitored through Bluetooth/Wi-fi technology in a limited range.
- Patient Registration and Appointment Booking
- It can generate Tests report and create Prescription which can be printed locally using small embedded printer.
- Continuous Power with Rechargeable Battery (4 hrs. battery back up).
- Compatible with any company's Medical devices.



GUI HOME SCREEN



Step 1: New patient registrations



Step 2: Fill patient details

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Patient HealthCare and Monitoring System

Blood Pressure

Body Mass Index

Oximeter

Glucometer

Digital Stethoscope

ECG

Prescription Print

Home

Patient Information

Full Name

Praveer Kumar

Contact Number

9111155500

Email ID

(Optional)

Age

27

Gender

☒ Male ☐ Female ☐ Others

Aadhaar No

(Optional)

Address

Patna, Bihar

Submit

Clear

New Registration

Appointment Booking

Patient's List


Doctor's List

Doctor's Reg

Profile Setting

Exit

Activate Windows
Go to Settings to activate Windows.


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Step 3: Appointment Booking

Patient HealthCare and Monitoring System

Blood Pressure

Body Mass Index

Oximeter

Glucometer

Digital Stethoscope

ECG

Prescription Print

Home

Appointment Booking:

Search (By Mobile No)

Name:

ID:

Contact No:

Problem

Requested Meeting Date

Requested Meeting Time

Days

Last Booking Status

Last Booking Date

Last Meeting Date

Activate Windows
Go to Settings to activate Windows.

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Step 4: Payment Receipt

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Patient HealthCare and Monitoring System

Blood Pressure

Body Mass Index

Oximeter

Glucometer

Digital Stethoscope

ECG

Prescription Print

Home

Payment Receipt

Receipt No

Name	Praveer Kumar
ID	MRN-91111-16
Contact No	9111155500
Reason	
Payment Mode	<input type="radio"/> Cash <input checked="" type="radio"/> Online <input type="radio"/> Others
Amount	

New Registration

Appointment Booking

Patient's List


Doctor's List

Doctor's Reg

Profile Setting


Exit

Activate Windows
Go to Settings to activate Windows.

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Step 5: Generate Invoice



Smartway Electronics
Patna
Mobile No.9874563210
Email ID:smartwayelectronics.com

Money Receipt

Pateint's ID : MRN-91111-16
Name : Praveer Kumar
Contact No : 9111155500

Purpose :
Payment Mode :Online
Amount :■

Signature

Activate Windows
Go to Settings to activate Windows.

Step 6: Patient list

Patient HealthCare and Monitoring System

Sani Kumar 9876543210 MRN-98765-(2,)

Date: 26/06/2024

Patient's List Search

	1	2	3	4	5	6	7	8	9	10	11	
0	Amit Kumar	7770063301	MRN-77700-1	Regular Test	09/06/2022,	09/06/2022	12Pm	CONFIRM	159/50	65.0	165.0	2:
1	Sani Kumar	9876543210	MRN-98765-(Test	13/06/2022,	13/06/2022	5PM	CONFIRM	150/47	None	None	N
2	Manmohan	7894561230	MRN-78945-6	test	13/06/2022,	13/06/2022	6pm	CONFIRM	None	None	None	N
3	Anikt Kumar	9638527410	MRN-96385-7	Regular Test	13/06/2022,	13/06/2022	6PM	CONFIRM	213	None	None	N
4	Ram Krishna	9630852741	MRN-96308-8	All Regular Te	17/06/2022,	17/06/2022	3PM	CONFIRM	None	None	None	N
5	Anurag Singh	7410852963	MRN-74108-9	All Regular Te	18/06/2022,	18/06/2022	6PM	CONFIRM	129	65.0	162.0	2:
6	Rampurush D	9898989898	MRN-98989-1	Test	24/06/2022,	24/06/2022	4PM	CONFIRM	None	None	None	N
7	Rakesh Kuma	8787878787	MRN-87878-1	test	24/06/2022,	24/06/2022	%Pm	PENDING	204	None	None	N
8	Amit Kumar	7770063301	MRN-77700-1	Regular Test	24/06/2022,	24/06/2022	4pm	PENDING	171	None	None	N
9	Lohit	5164684621	MRN-51646-1	nnnnnnnnnn	12/12/2023,	kkkkkkkkkkkk	414	PENDING	None	None	None	N
10	Amit Kumar	7770063301	MRN-77700-1	Regular Test	09/06/2022,	09/06/2022	12Pm	CONFIRM	159/50	65.0	165.0	2:
1	Sani Kumar	9876543210	MRN-98765-(Test	13/06/2022,	13/06/2022	5PM	CONFIRM	150/47	None	None	N
2	Manmohan	7894561230	MRN-78945-6	test	13/06/2022,	13/06/2022	6pm	CONFIRM	None	None	None	N
3	Anikt Kumar	9638527410	MRN-96385-7	Regular Test	13/06/2022,	13/06/2022	6PM	CONFIRM	213	None	None	N
4	Ram Krishna	9630852741	MRN-96308-8	All Regular Te	17/06/2022,	17/06/2022	3PM	CONFIRM	None	None	None	N
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7	Rakesh Kuma	8787878787	MRN-87878-1	test	24/06/2022,	24/06/2022	%Pm	PENDING	204	None	None	N
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4	Ram Krishna	9630852741	MRN-96308-8	All Regular Te	17/06/2022,	17/06/2022	3PM	CONFIRM	None	None	None	N

New Registration

Appointment Booking

Patient's List

Doctor's List

Doctor's Reg

Profile Setting

Exit

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Step 7: Check doctor's details

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Patient HealthCare and Monitoring System

Sani Kumar 9876543210 MRN-98765-(2,)

Blood Pressure

Body Mass Index

Oximeter

Glucometer

Digital Stethoscope

ECG

Prescription Print

Home

Doctor List

0	1	2	3	4	5	6		
1	Dr.Mayank Ch	MBBS	9879879879	Bone	Health	13/06/2022,		
2	Dr.Maynak Ti	MBBS	9876543210	Eye	Health	13/06/2022,		
3	Rohit Ranjan	M.D M.B.B.S	39823436	5 year	Heart	12/12/2023,		

New Registration

Appointment Booking

Patient's List


Doctor's List

Doctor's Reg

Profile Setting

Exit

Activate Windows
Go to Settings to activate Windows.

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Step 8: Body mass Index Calculator

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Patient HealthCare and Monitoring System

Sani Kumar 9876543210 MRN-98765-(2,)

(Select COM port)

Blood Pressure

Body Mass Index

Oximeter

Glucometer

Digital Stethoscope

ECG

Prescription Print

Home

BMI Data

Weight(kg)

Height(cm)

BMI

Result Obese

New Registration

Appointment Booking

Patient's List


Doctor's List

Doctor's Reg

Profile Setting

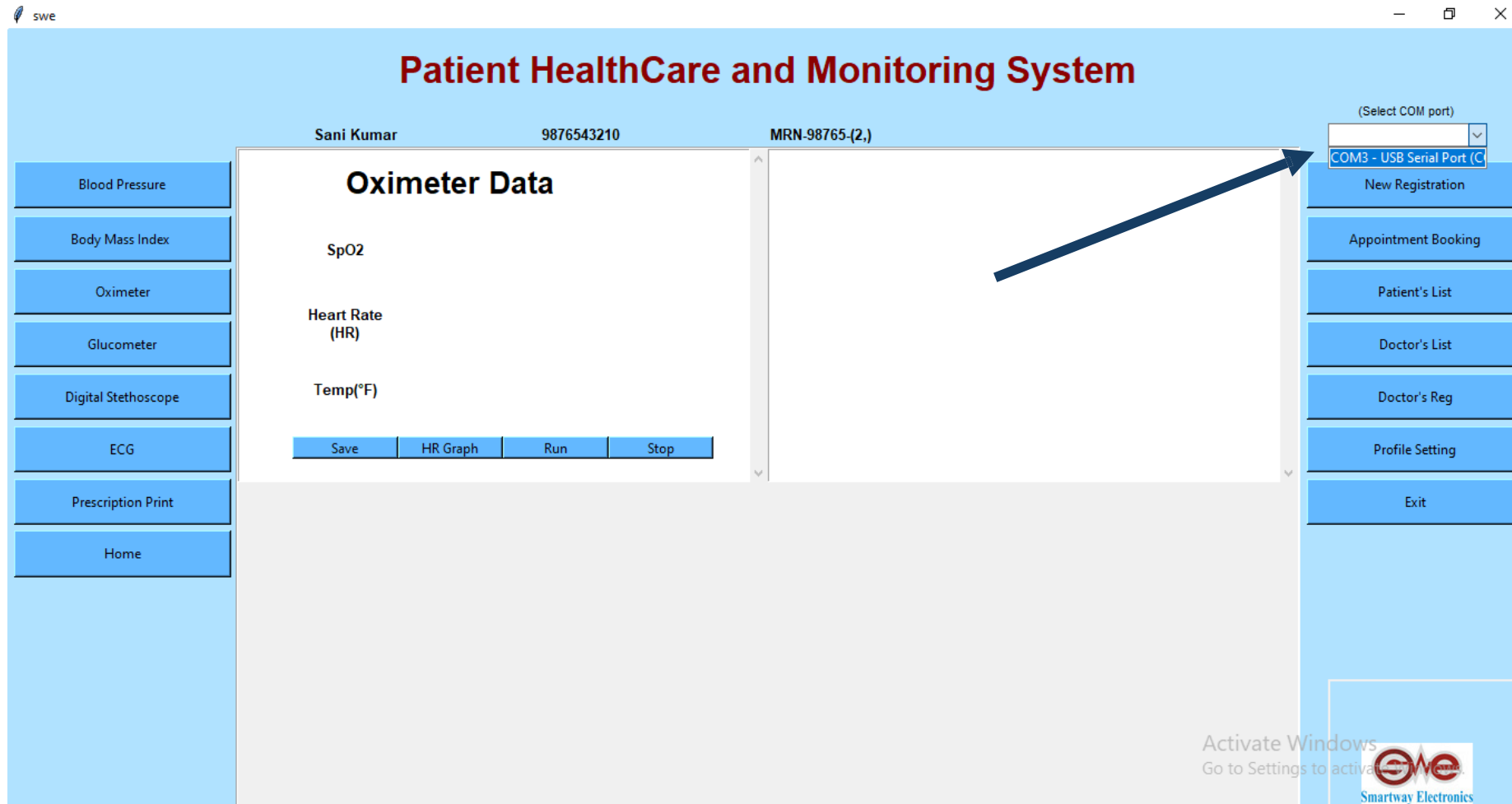
Exit

Activate Windows
Go to Settings to activate Windows.

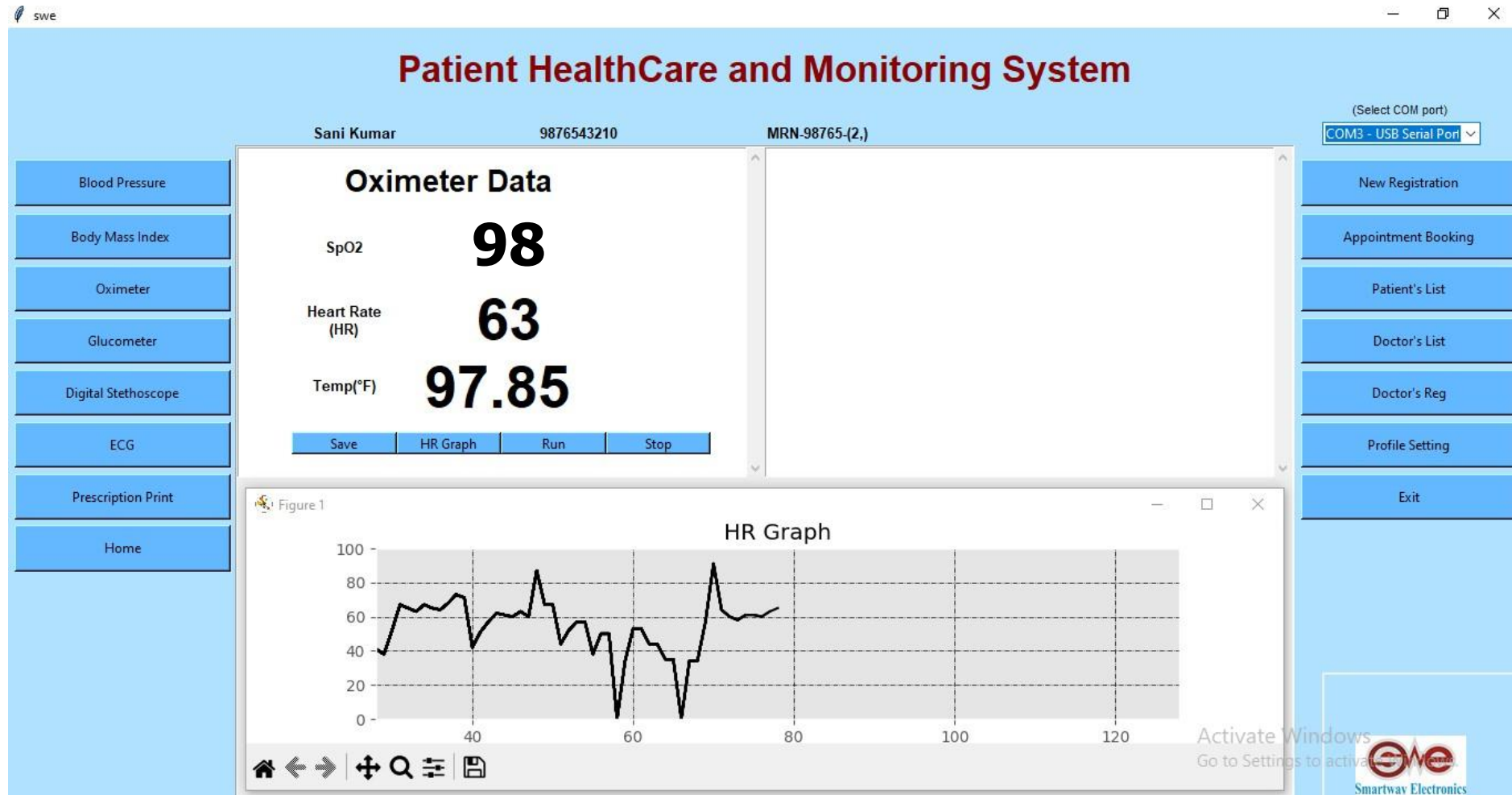

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Step 9: Select Comm. Port



Step 10: Oximeter data



Step 11: Glucometer

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Patient HealthCare and Monitoring System

Sani Kumar 9876543210 MRN-98765-(2,)

(Select COM port)
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Blood Pressure

Body Mass Index

Oximeter

Glucometer

Digital Stethoscope

ECG

Prescription Print

Home

Glucometer Testing Type

Fasting

pp

Random

New Registration

Appointment Booking

Patient's List


Doctor's List

Doctor's Reg

Profile Setting

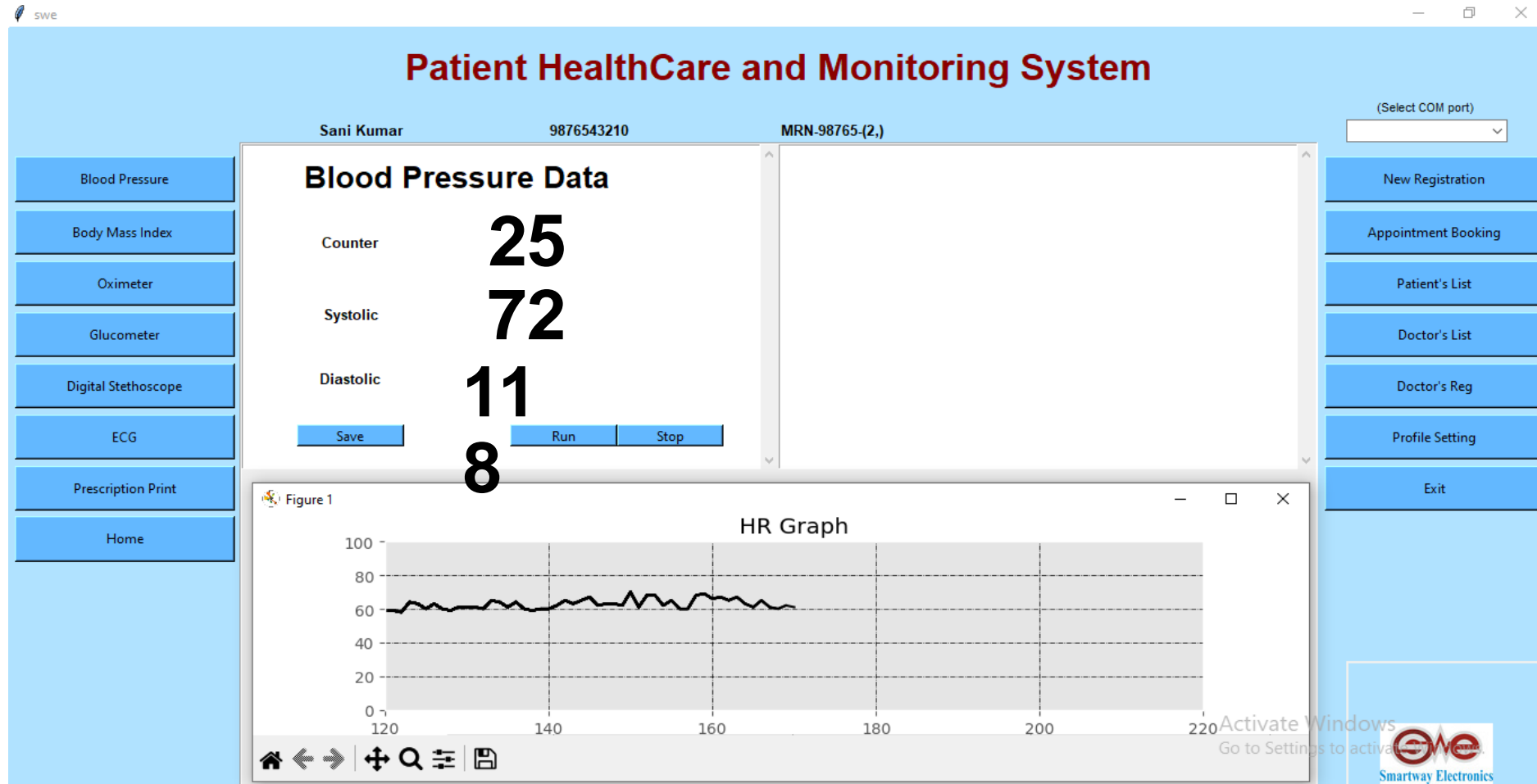
Exit

Activate Windows
Go to Settings to activate Windows.

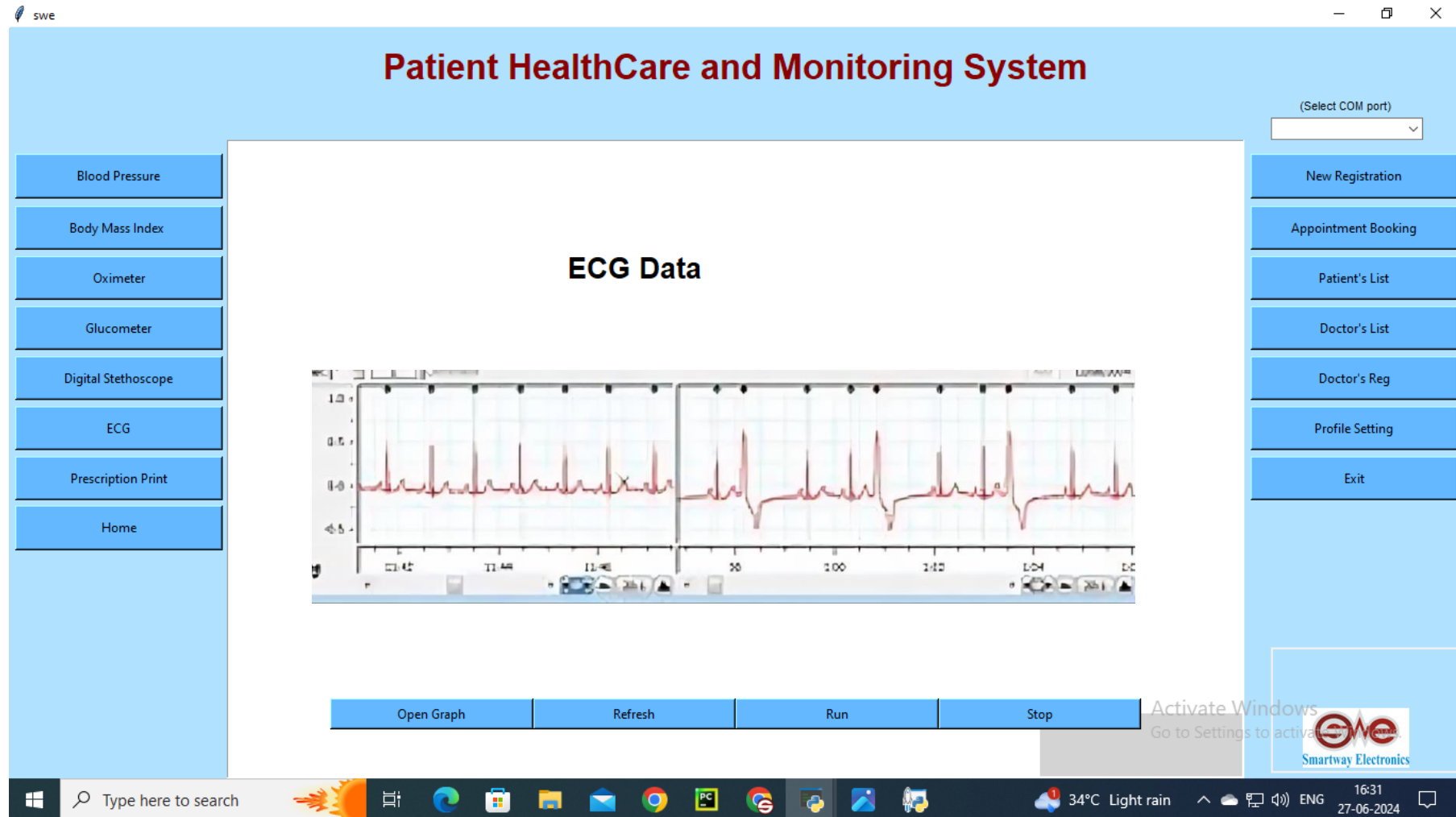

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Step 12: Blood Pressure monitoring



Step 13: ECG monitoring



Step 14: Digital Stethoscope

