

## Screenshots 4th Industrial Revolution

Register:

user: franciscososa

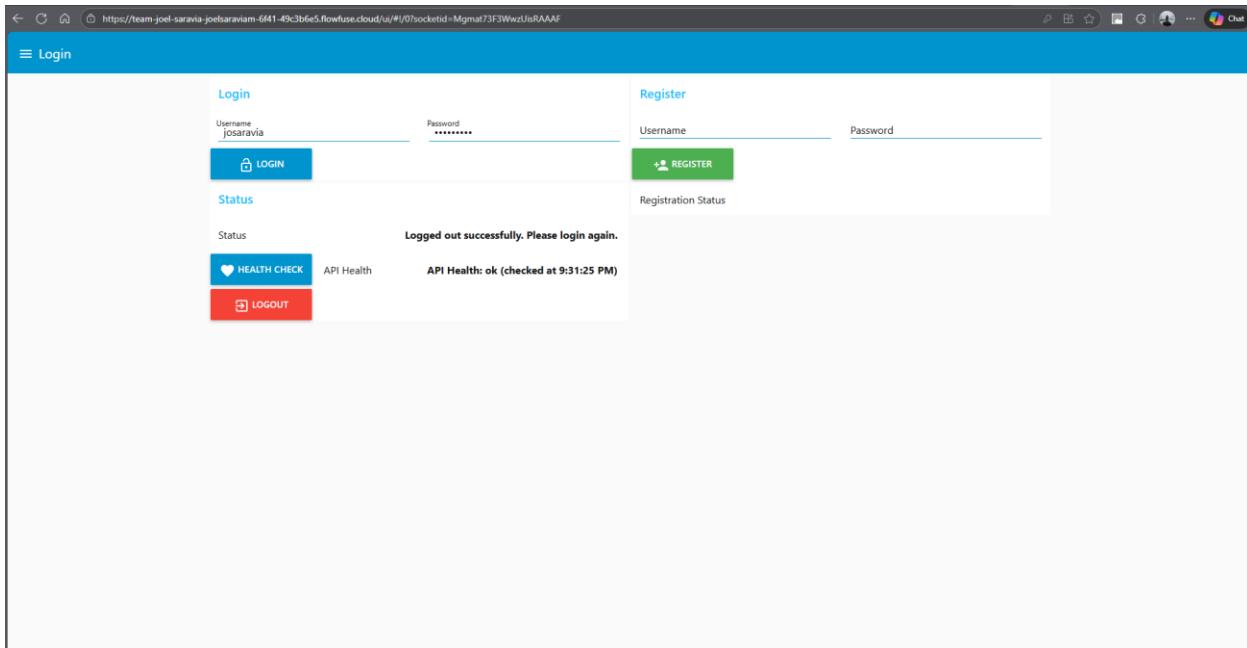
pwd: franciscososa

The screenshot shows a registration page with a blue header containing the word "Register". Below the header, there are two input fields: "Username" (franciscososa) and "Password" (represented by a series of dots). A green button labeled "+ REGISTER" is positioned below the password field. To the left of the button, under the heading "Registration Status", is the message "Registration successful! You can now login.".

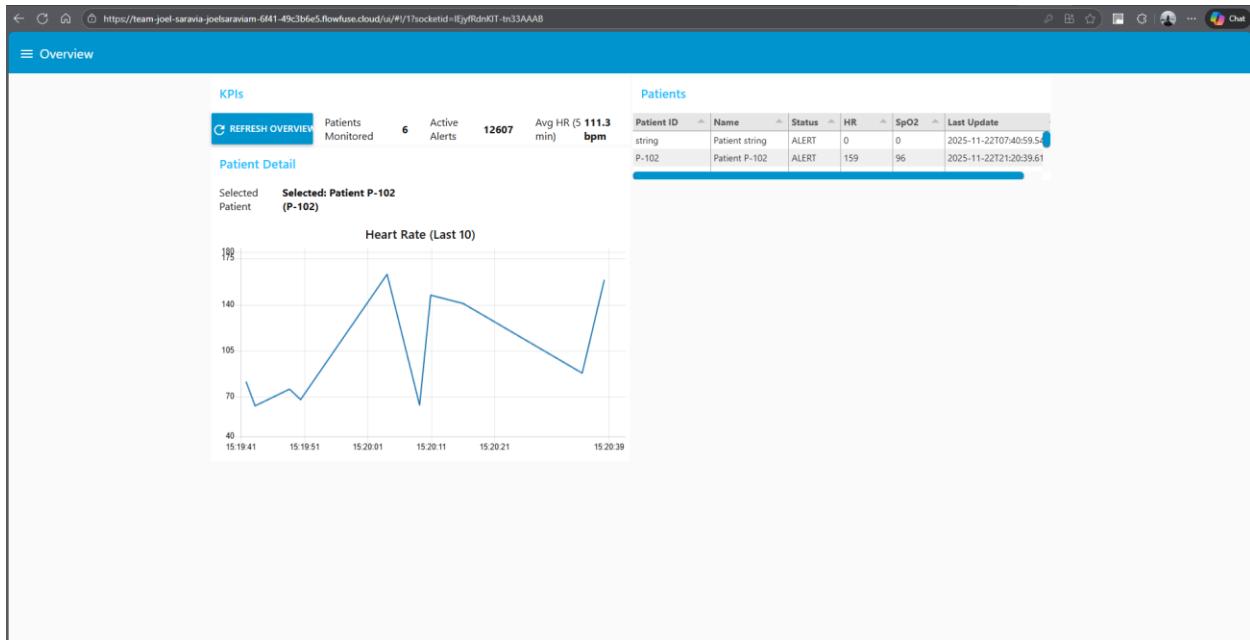
Log in

The screenshot shows a login page with a blue header containing the word "Login". On the left, there is a "Login" section with fields for "Username" (josaravia) and "Password" (represented by a series of dots), and a blue "LOGIN" button. To the right, there is a "Register" section with fields for "Username" and "Password", and a green "+ REGISTER" button. Below the login section, under the heading "Status", is the message "Login successful. Token stored." and a "HEALTH CHECK" button. Below the register section, under the heading "API Health", is the message "API Health: ok (checked at 9:31:25 PM)" and a "LOGOUT" button.

Log out



## Visualizations - Overview

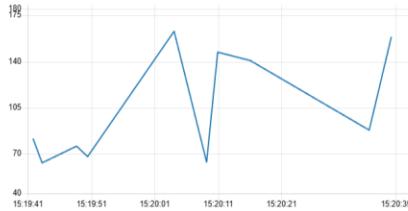


**KPIs**

Patients Monitored	6	Active Alerts	12607	Avg HR (5 min)	111.3 bpm
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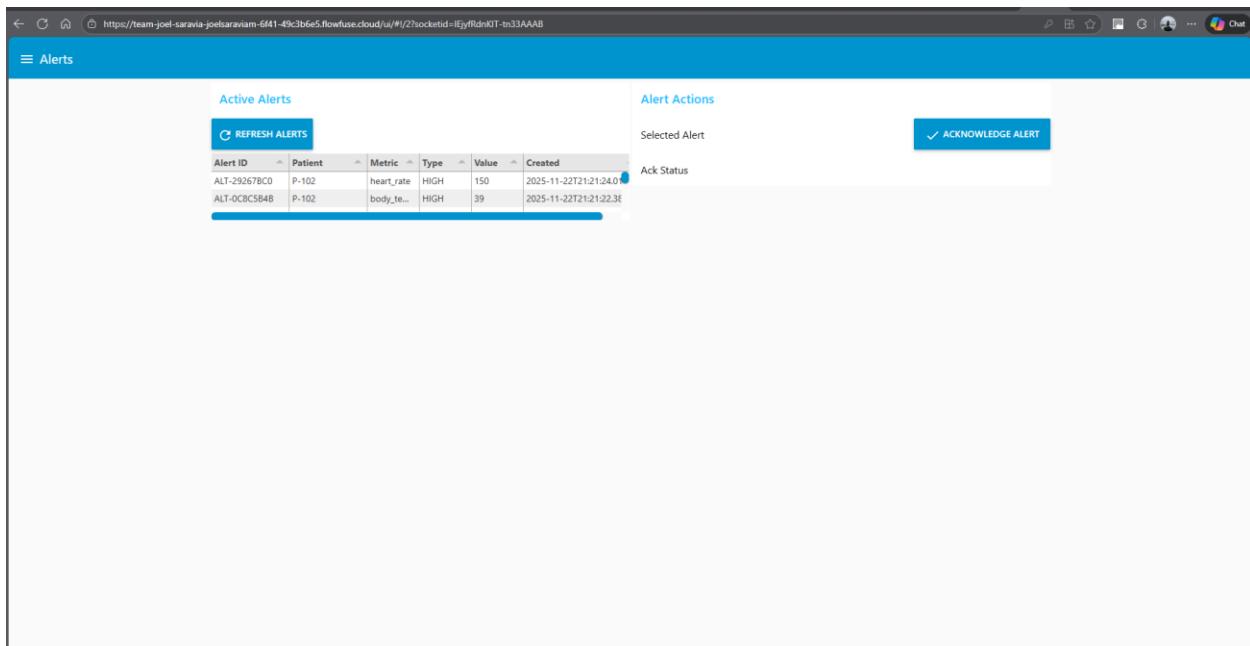
**Patient Detail**  
Selected Patient: Selected: Patient P-102 (P-102)

**Heart Rate (Last 10)**



Patient ID	Name	Status	HR	SpO2	Last Update
string	Patient string	ALERT	0	0	2025-11-22T07:40:59.51
P-102	Patient P-102	ALERT	159	96	2025-11-22T21:20:59.61

## Visualizations – Alerts



**Active Alerts**

Alert ID	Patient	Metric	Type	Value	Created
ALT-29267BC0	P-102	heart_rate	HIGH	150	2025-11-22T21:21:24.01
ALT-0CBC5B4B	P-102	body_temp	HIGH	39	2025-11-22T21:21:22.38

**Alert Actions**

Selected Alert:  ACKNOWLEDGE ALERT

Ack Status

Success ack:

The screenshot shows a web-based alert management system. At the top, there's a header bar with a logo and navigation links. Below it, a blue header bar says "Alerts". Underneath, there are two main sections: "Active Alerts" and "Alert Actions".

**Active Alerts:** This section contains a table with the following data:

Alert ID	Patient	Metric	Type	Value	Created
ALT-E3E721B1	P-103	heart_rate	HIGH	182	2025-11-22T21:21:53.0
ALT-D38TA2E1	P-202	heart_rate	HIGH	156	2025-11-22T21:21:51.35

**Alert Actions:** This section shows a message: "Selected alert: ALT-0C8C5B4B (patient: P-102) Ack successfully (ID: ALT-0C8C5B4B). Refreshing list...". There is also a button labeled "ACKNOWLEDGE ALERT" with a checkmark icon.

## Visualizations - Reports

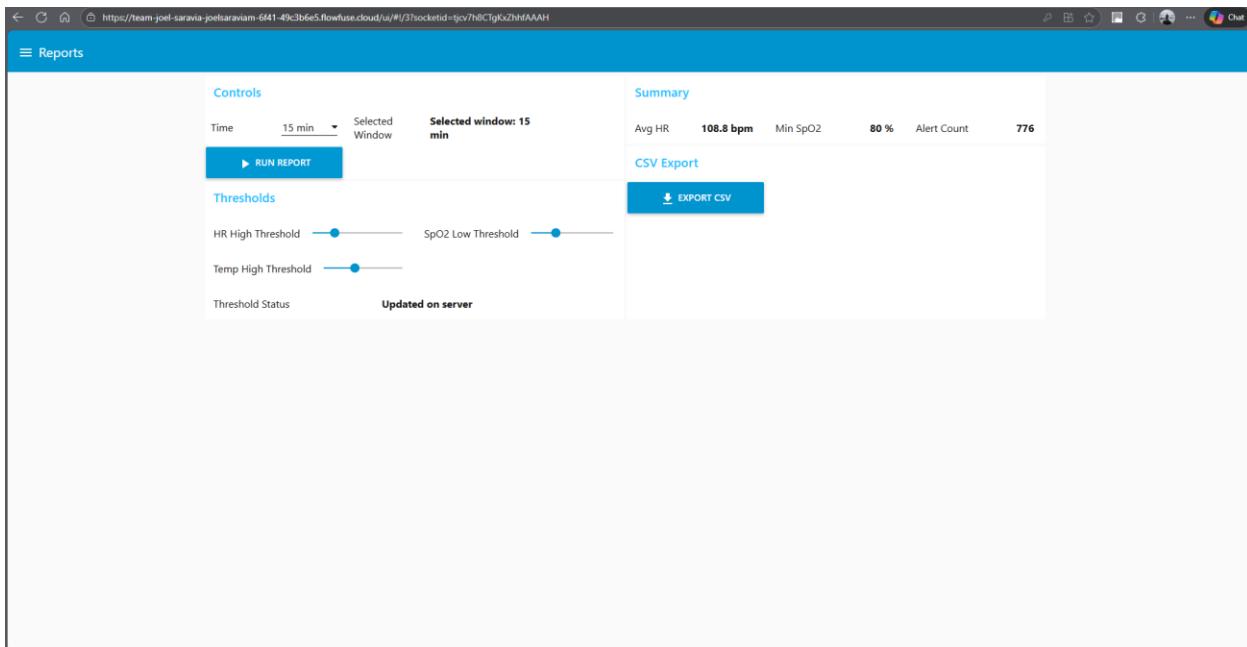
The screenshot shows a web-based reporting interface. At the top, there's a header bar with a logo and navigation links. Below it, a blue header bar says "Reports".

**Controls:** On the left, there are controls for time selection ("Time" dropdown set to "5 min") and a "Selected Window" section. A "RUN REPORT" button is present. Below these are "Thresholds" settings for "HR High Threshold", "SpO2 Low Threshold", and "Temp High Threshold", each with a slider and a value indicator.

**Summary:** On the right, there's a summary table with the following data:

Avg HR	112.1 bpm	Min SpO2	80 %	Alert Count	244
--------	-----------	----------	------	-------------	-----

**CSV Export:** A "EXPORT CSV" button is located below the summary table.



**Controls**

Time: **15 min** Selected Window: **Selected window: 15 min**

**RUN REPORT**

**Thresholds**

HR High Threshold: [Slider] SpO<sub>2</sub> Low Threshold: [Slider]

Temp High Threshold: [Slider]

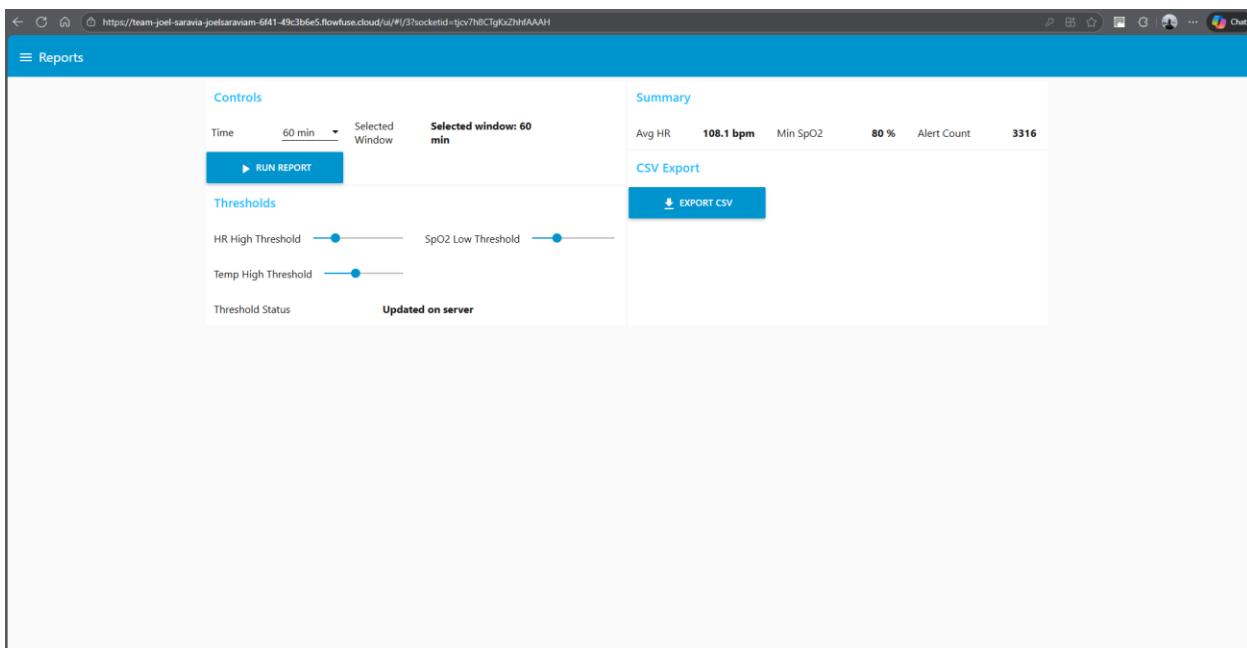
Threshold Status: **Updated on server**

**Summary**

Avg HR: **108.8 bpm** Min SpO<sub>2</sub>: **80 %** Alert Count: **776**

**CSV Export**

**EXPORT CSV**



**Controls**

Time: **60 min** Selected Window: **Selected window: 60 min**

**RUN REPORT**

**Thresholds**

HR High Threshold: [Slider] SpO<sub>2</sub> Low Threshold: [Slider]

Temp High Threshold: [Slider]

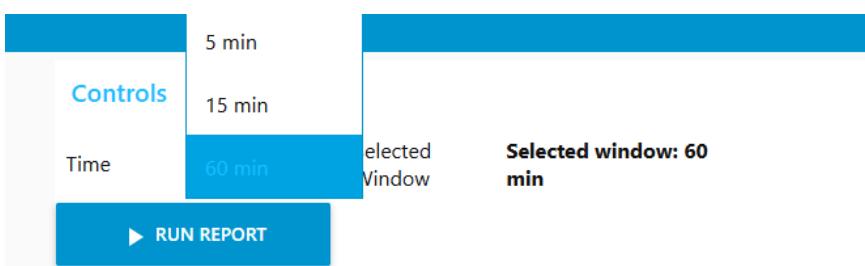
Threshold Status: **Updated on server**

**Summary**

Avg HR: **108.1 bpm** Min SpO<sub>2</sub>: **80 %** Alert Count: **3316**

**CSV Export**

**EXPORT CSV**



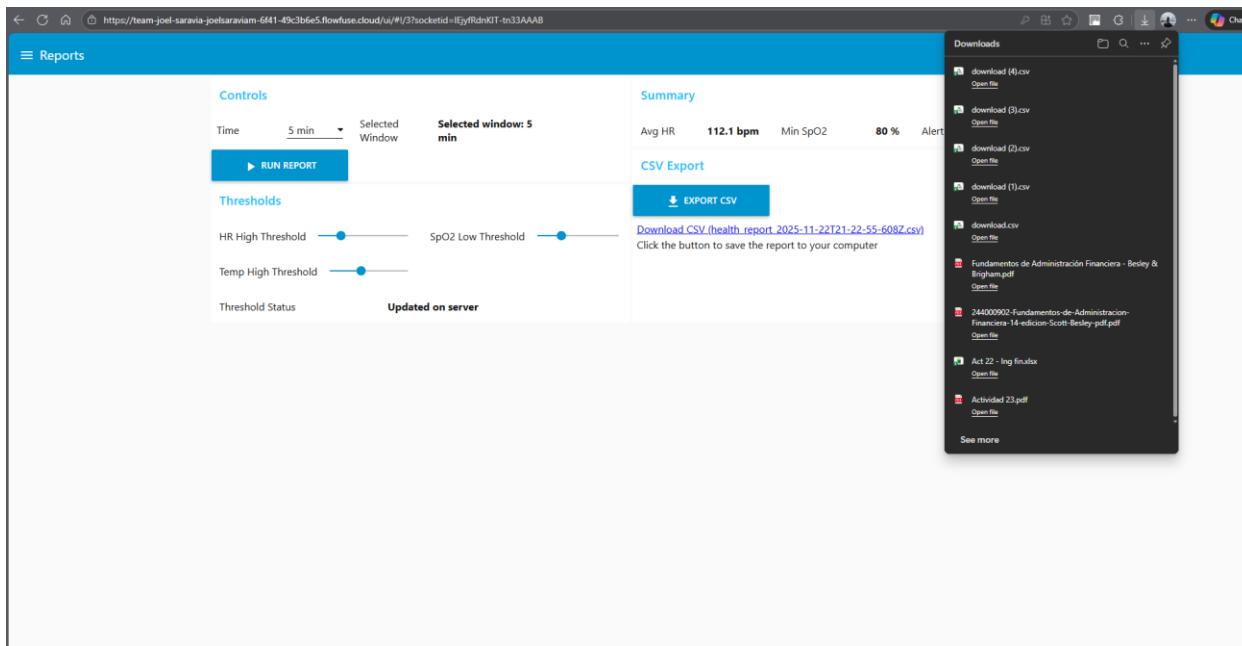
**Controls**

Time: **5 min** **15 min** **60 min** **Selected Window**

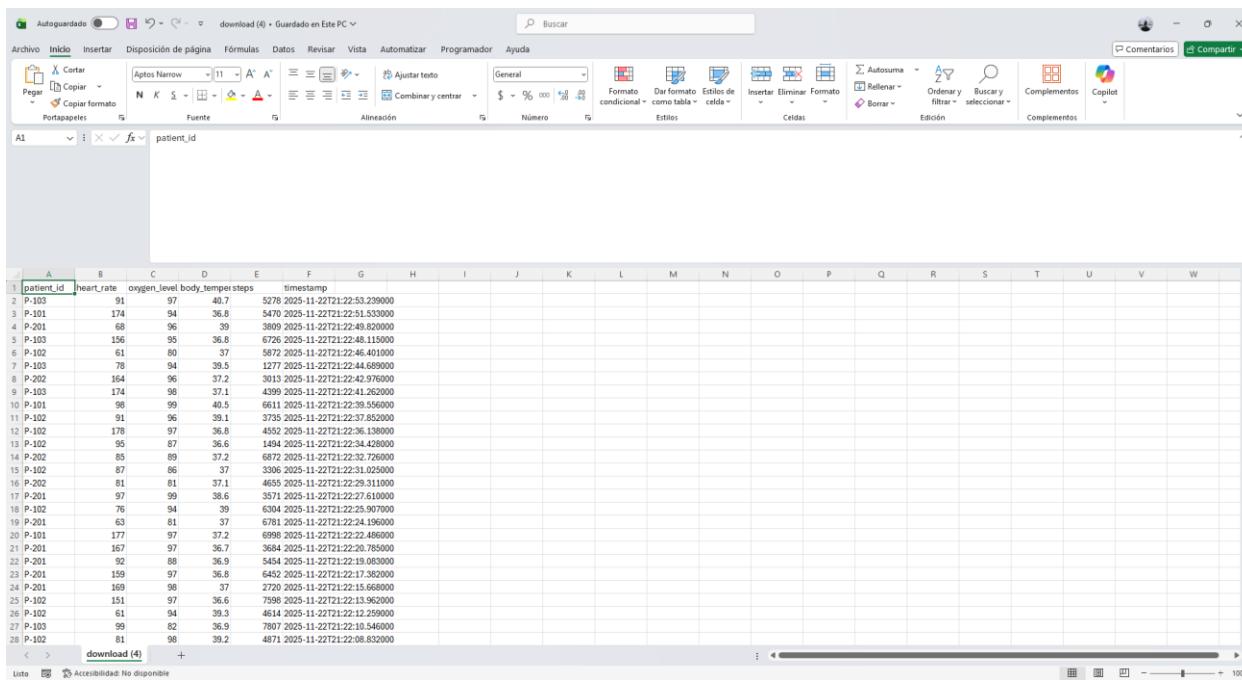
**Selected window: 60 min**

**RUN REPORT**

## CSV Download:



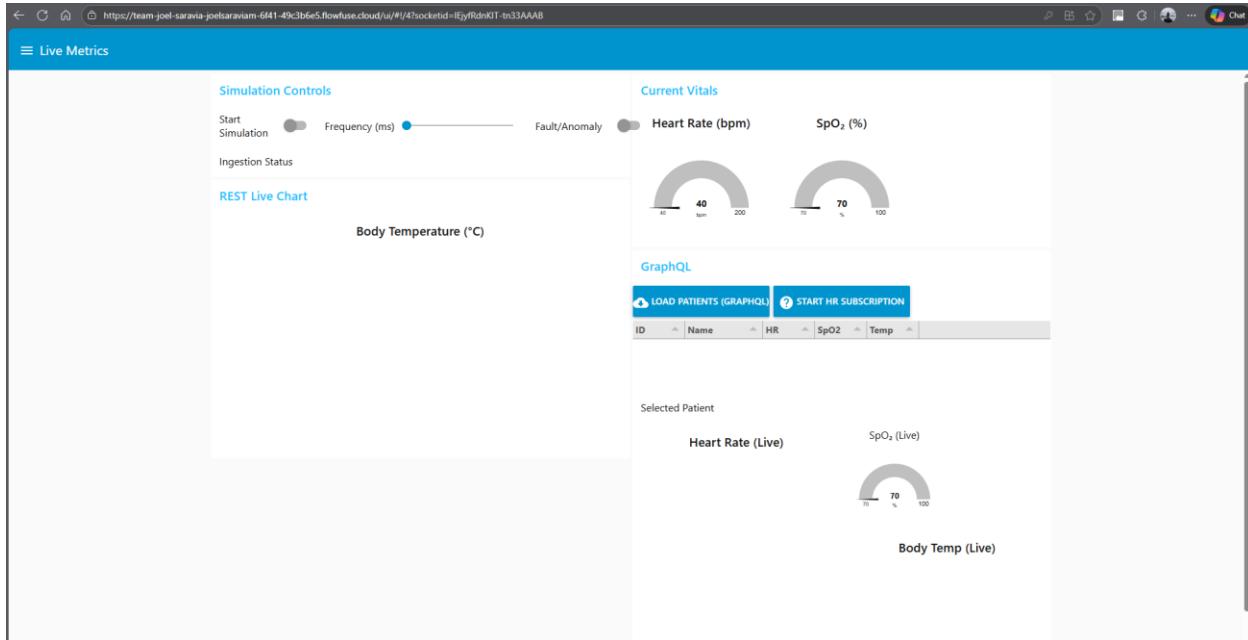
## CSV (compatible with Excel)



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	patient_id																						
2	P-103	91	97	40.7	5270	2025-11-22T21:22:55.289000																	
3	P-101	174	94	36.8	5470	2025-11-22T21:22:51.533000																	
4	P-101	68	96	39	3899	2025-11-22T21:22:48.820000																	
5	P-103	156	95	36.8	6726	2025-11-22T21:22:48.115000																	
6	P-102	61	80	37	5872	2025-11-22T21:22:46.401000																	
7	P-103	78	94	39.5	1777	2025-11-22T21:22:44.689000																	
8	P-202	164	96	37.2	3013	2025-11-22T21:22:42.976000																	
9	P-103	174	97	37.1	4399	2025-11-22T21:22:41.262000																	
10	P-101	98	99	40.5	6611	2025-11-22T21:22:39.556000																	
11	P-102	91	96	39.1	3735	2025-11-22T21:22:37.852000																	
12	P-102	178	97	36.8	4552	2025-11-22T21:22:36.138000																	
13	P-102	95	87	36.6	1494	2025-11-22T21:22:34.428000																	
14	P-202	85	89	37.2	6872	2025-11-22T21:22:32.726000																	
15	P-102	87	86	37	3306	2025-11-22T21:22:31.025000																	
16	P-202	81	81	37.1	2501	2025-11-22T21:22:30.500000																	
17	P-201	97	99	38.6	3511	2025-11-22T21:22:27.610000																	
18	P-102	76	94	39	2304	2025-11-22T21:22:25.907000																	
19	P-201	63	81	37	6781	2025-11-22T21:22:24.196000																	
20	P-101	177	97	37.2	6990	2025-11-22T21:22:22.486000																	
21	P-201	167	97	36.7	3684	2025-11-22T21:22:20.785000																	
22	P-201	92	88	36.9	5454	2025-11-22T21:22:19.083000																	
23	P-201	159	97	36.8	6452	2025-11-22T21:22:17.382000																	
24	P-201	169	98	37	2720	2025-11-22T21:22:15.668000																	
25	P-102	151	97	36.6	7598	2025-11-22T21:22:13.962000																	
26	P-102	61	94	39.3	4614	2025-11-22T21:22:12.259000																	
27	P-103	99	82	36.9	7807	2025-11-22T21:22:10.546000																	
28	P-102	81	98	39.2	4871	2025-11-22T21:22:08.832000																	

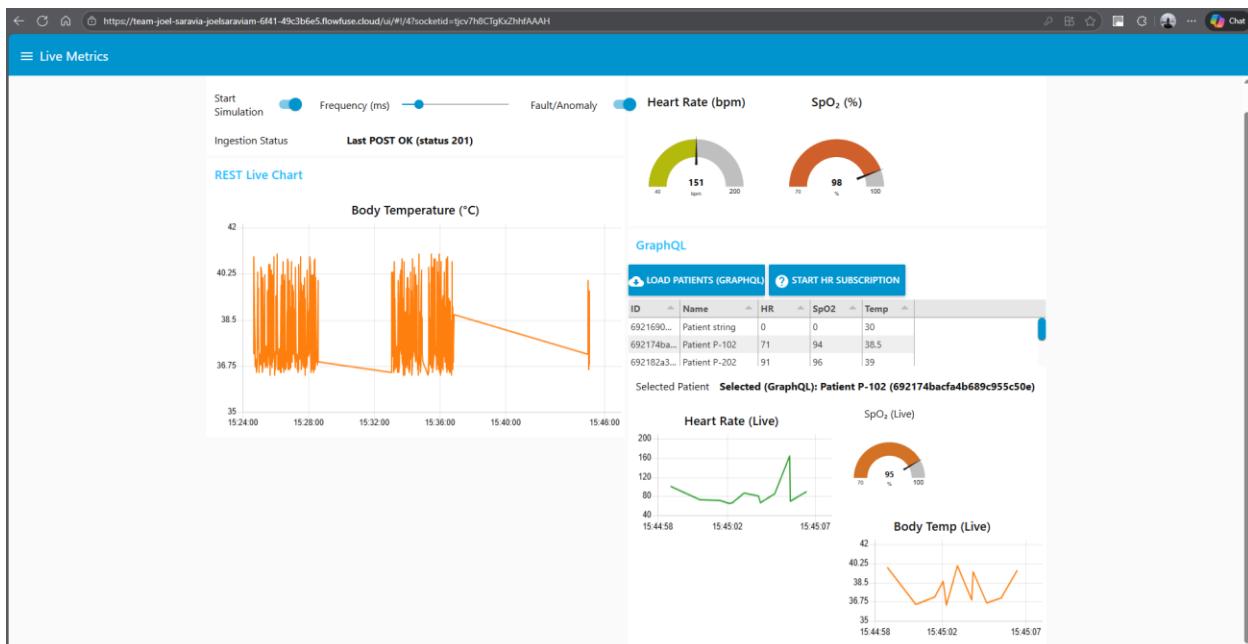
## Visualizations – Live Metrics

Before clicking



## Visualizations – Live Metrics

After Click



## Graphql: wss

The screenshot shows a GraphQL playground interface with the URL <https://industrialapi.savimind.com/graphq>. The left panel contains a code editor with the following GraphQL subscription query:

```
1subscription {
2  liveVitals {
3    heartRate
4    oxygenLevel
5    bodyTemperature
6    timestamp
7  }
8}
```

The right panel displays the response from the server, which includes a timestamp and a list of live vital statistics:

```
{
  "data": {
    "liveVitals": [
      {
        "heartRate": 60,
        "oxygenLevel": 80,
        "bodyTemperature": 36.7,
        "timestamp": "2025-11-22T21:46:23.593000+00:00"
      }
    ]
  }
}
```

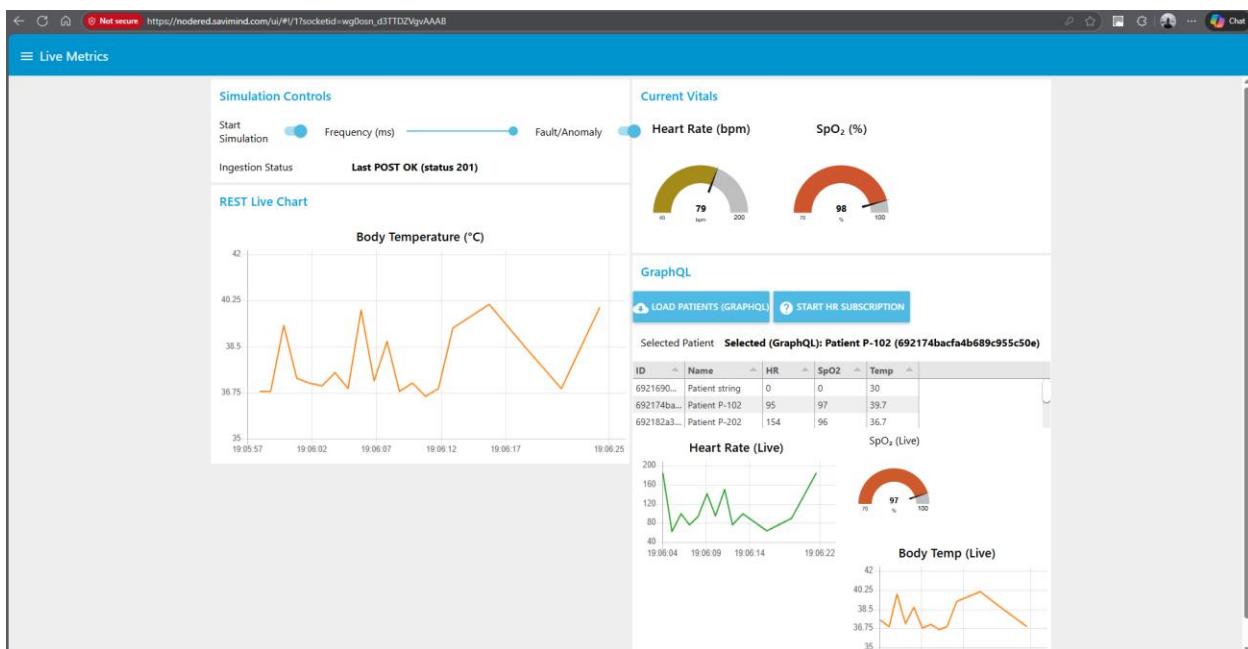
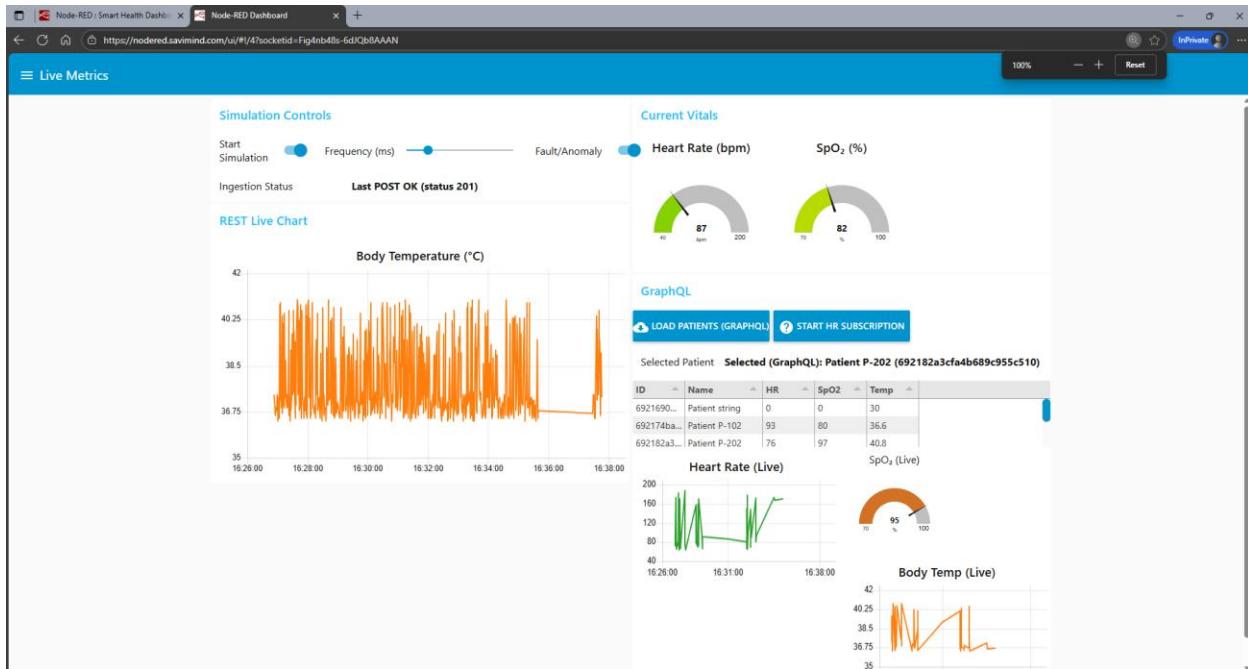
The screenshot shows a GraphQL playground interface with the URL <https://industrialapi.savimind.com/graphq>. The left panel contains a code editor with the same subscription query as the previous screenshot, but with specific values assigned to the variables:

```
1subscription {
2  liveVitals {
3    heartRate
4    oxygenLevel
5    bodyTemperature
6    timestamp
7  }
8}
```

The right panel displays the response from the server, which includes the assigned values:

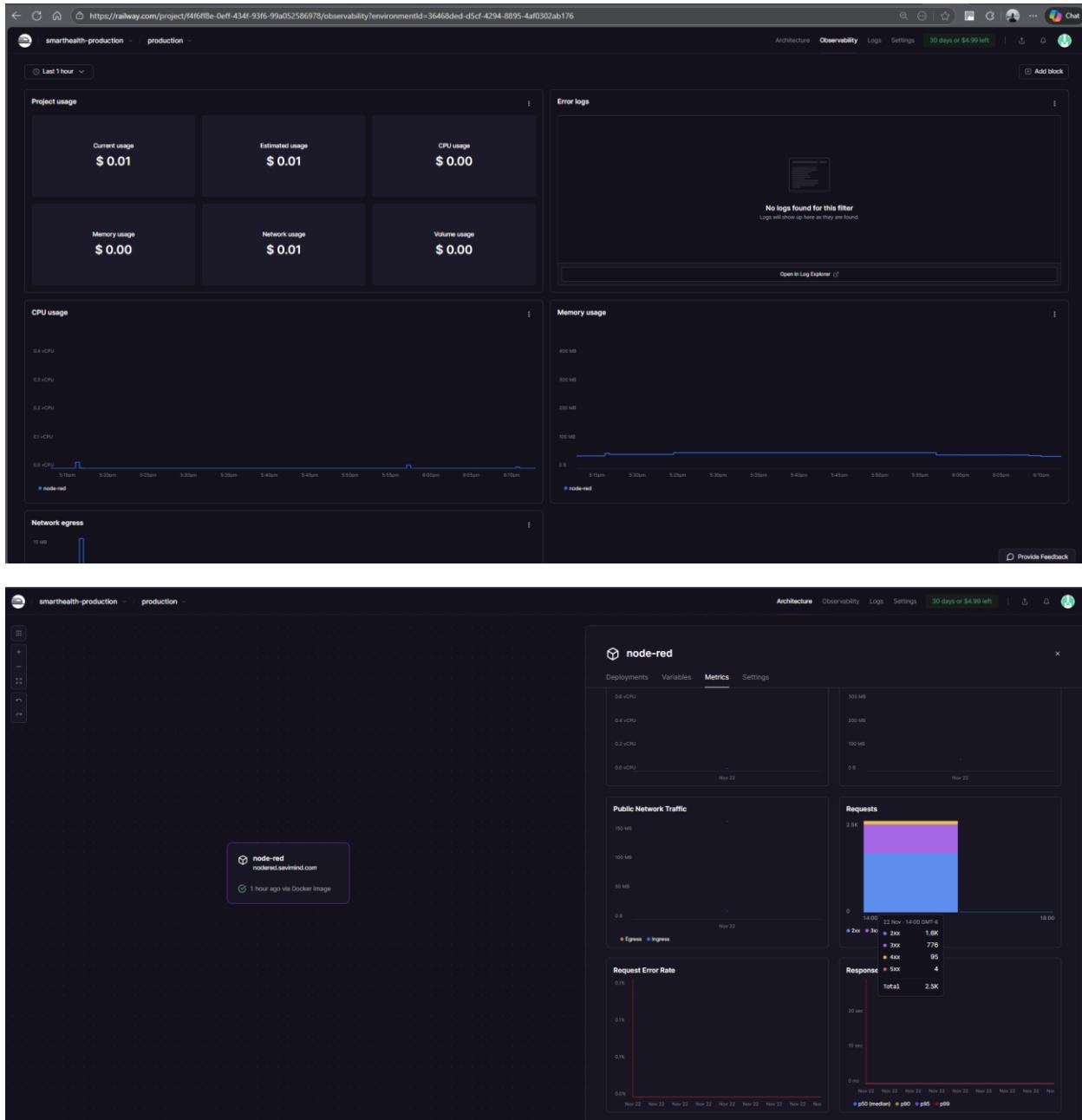
```
{
  "data": {
    "liveVitals": [
      {
        "heartRate": 60,
        "oxygenLevel": 80,
        "bodyTemperature": 36.8,
        "timestamp": "2025-11-22T21:46:29.492000+00:00"
      }
    ]
  }
}
```

Deployed with custom domain:



## Deployment:

Railway for node-red Flow (docker container)



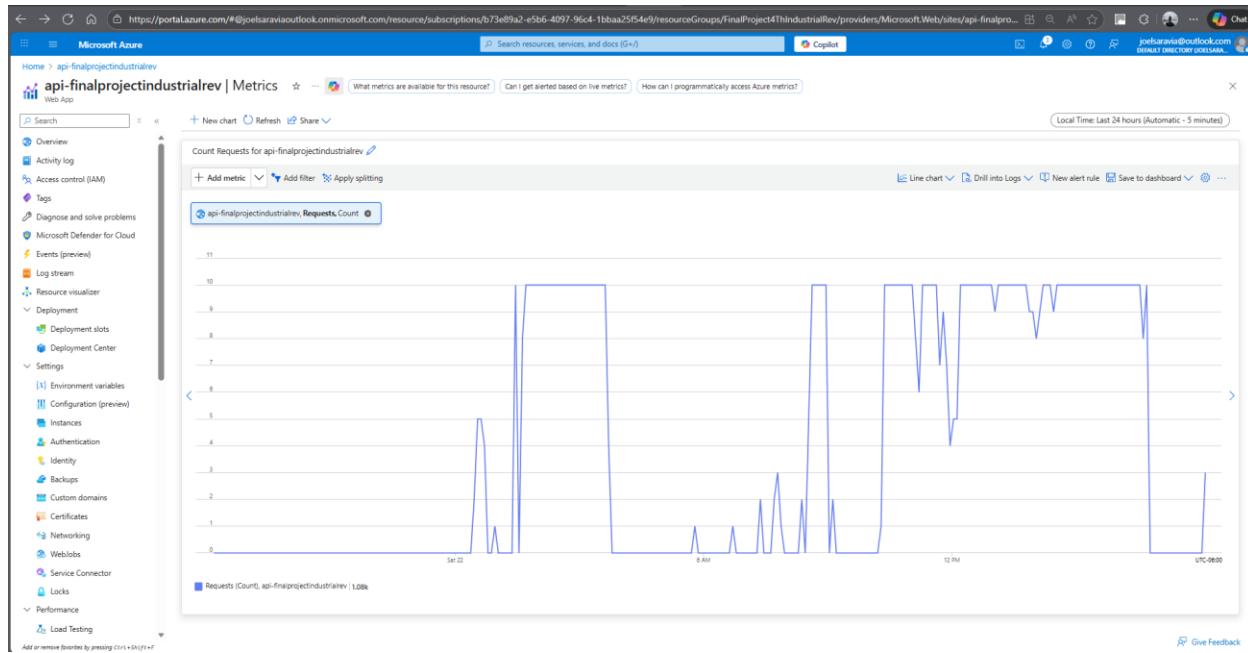
FlowFuse automatically deploys, just copied my JSON flow there:

The screenshot shows the FlowFuse application instance overview. The URL is <https://app.flowfuse.com/instance/656e50f2-134f-456a-9987-323bf6c12a4/overview>. The interface includes a sidebar with navigation links like Home, Instances, Operations, Team Management, and Team Admins. The main area displays instance details: Editor URL (<https://team-joel-saravia-joelsaraviam-64149c3b65.flowfuse.cloud/>), Status (green, running), Last Updated (50 minutes, 15 seconds ago), Security (None), and Scheduled Maintenance (disabled). It also shows recent activity logs for Node-RED settings updates. A large central panel is labeled "Specs" and lists various configuration details.

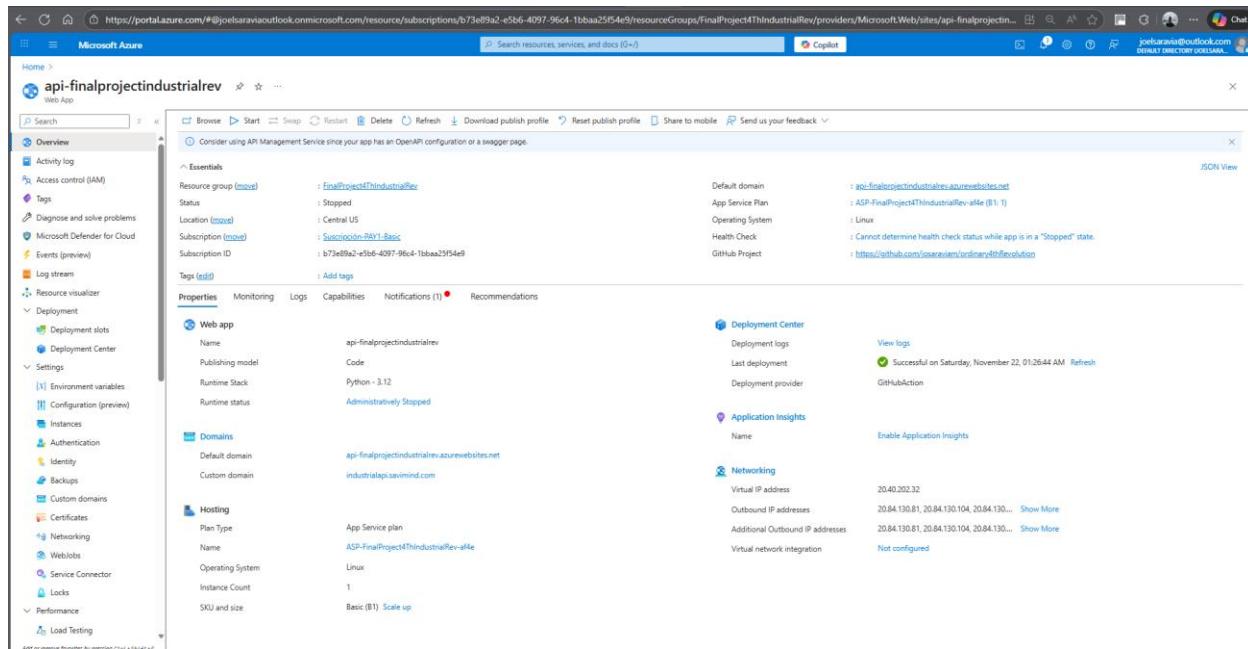
API Deployed using Azure:

The screenshot shows the Smart Health Monitoring API documentation at <https://industrialapi.savimind.com/docs>. The page lists various API endpoints categorized by functionality: Health, Authentication, Patients, Alerts, Overview, and Reports. Each endpoint is shown with its method (e.g., GET, POST), URL, and a brief description. The "Health" section includes a "Health Check" endpoint. The "Authentication" section includes "Register" and "Login" endpoints. The "Patients" section includes "Ingest Patient Data", "List Patients", and "Get Patient Readings". The "Alerts" section includes "List Alerts" and "Acknowledge Alert". The "Overview" section includes "Get Kpis". The "Reports" section includes "Get Summary" and "Export Csv". A "Authorize" button is located in the top right corner of the interface.

## Monitoring:



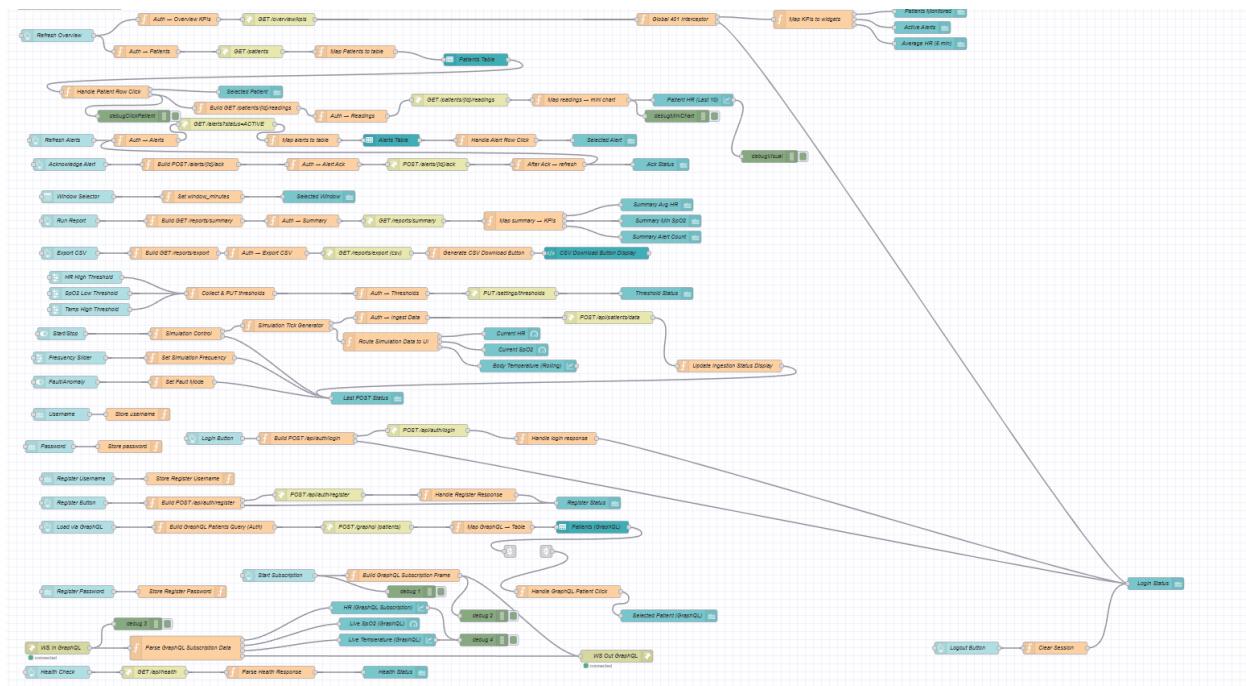
## Setup -currently stopped-



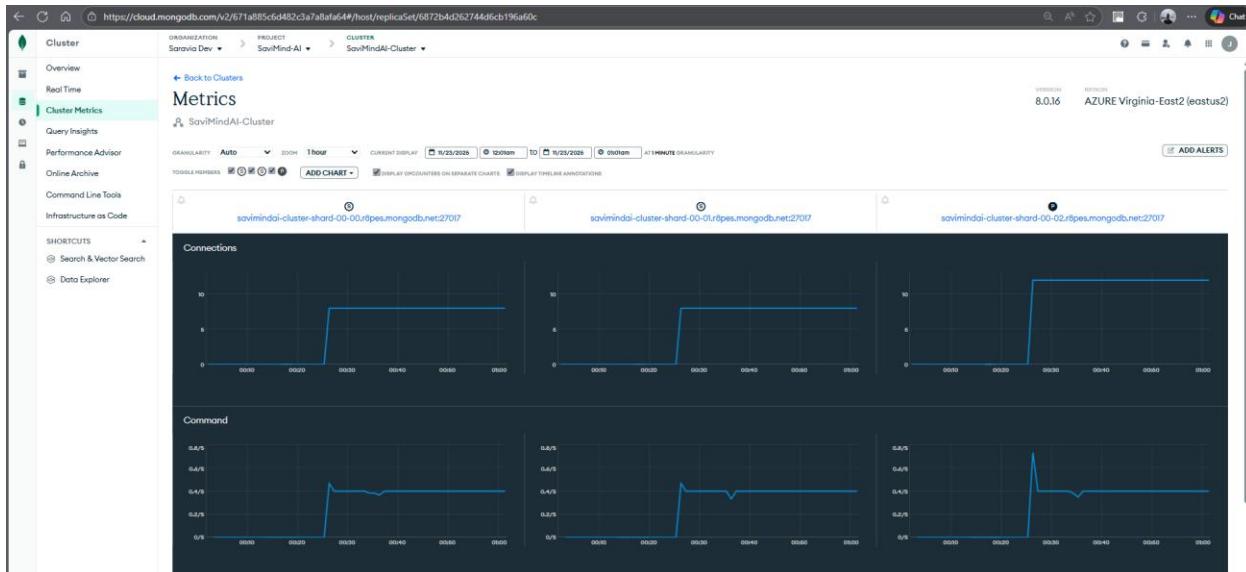
The screenshot shows the Microsoft Azure Web App configuration page for the 'api-finalprojectindustrialrev' resource. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Events (preview), Log stream, Resource visualizer, Deployment (Deployment slots, Deployment Center), Settings (Environment variables, Configuration (preview), Instances, Authentication, Identity, Backups, Custom domains, Certificates, Networking, Webhooks, Service Connector, Locks), Performance (Load Testing), and Load Testing. The main area displays various configuration settings and monitoring information. Key details include:

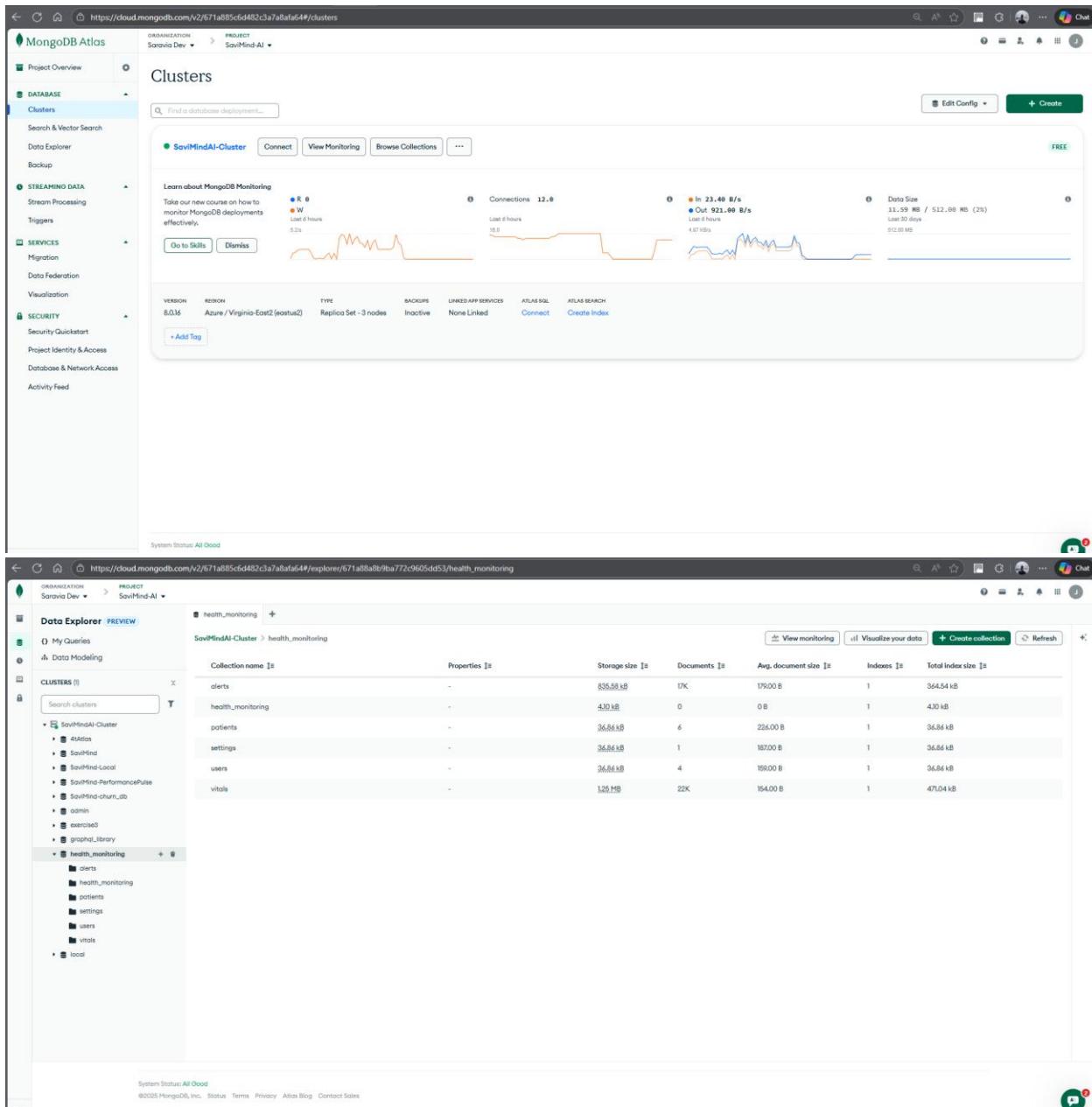
- Essentials:**
  - Resource group: FinalProject4ThIndustrialRev
  - Status: Stopped
  - Location: Central US
  - Subscription: Subscription-PAYT-Basic
  - Subscription ID: b73e89a2-e5b6-4097-96c4-1bbcaa25f54e9
  - Tags: None
- Properties:** Monitoring, Logs, Capabilities, Notifications (1), Recommendations
- Deployment Center:**
  - Deployment logs: View logs, Successful on Saturday, November 22, 01:26:44 AM (Refresh)
  - Last deployment: GitHubAction
- Application Insights:** Name, Enable Application Insights
- Networking:**
  - Virtual IP address: 20.40.202.32
  - Outbound IP addresses: 20.84.130.81, 20.84.130.104, 20.84.130... Show More
  - Additional Outbound IP addresses: 20.84.130.81, 20.84.130.104, 20.84.130... Show More
  - Virtual network integration: Not configured

### Node-red Diagram:



### Mongo Cluster:





The image shows two screenshots of the MongoDB Cloud interface side-by-side.

**Top Screenshot (Clusters View):**

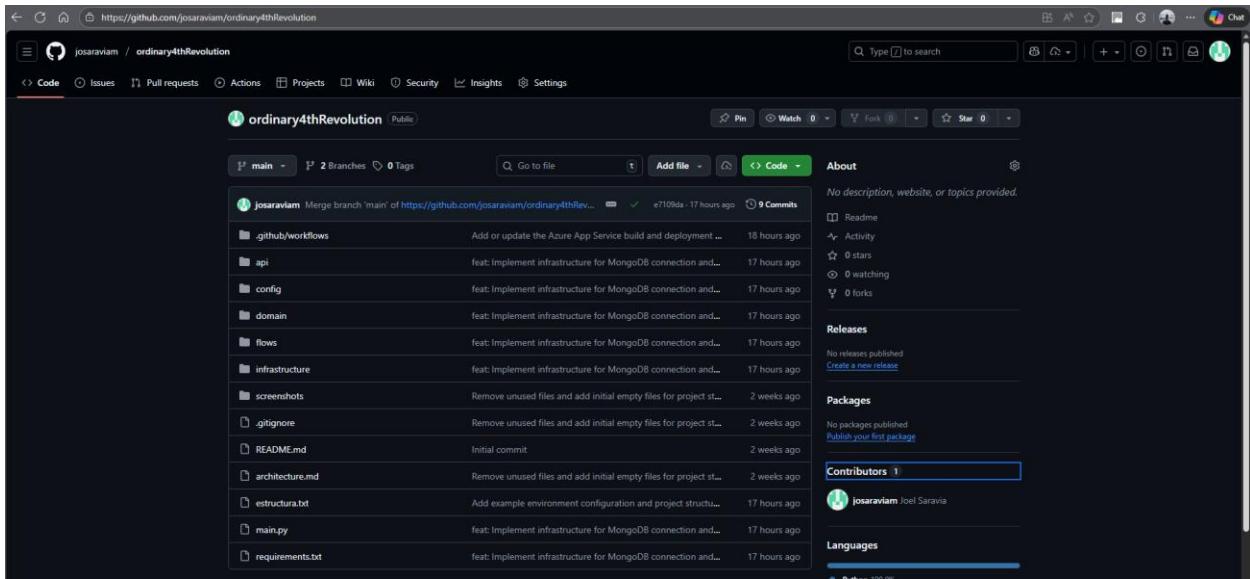
- Left Sidebar:** Project Overview, DATABASE (Clusters selected), Search & Vector Search, Data Explorer, Backup, STREAMING DATA (Stream Processing, Triggers), SERVICES (Migration, Data Federation, Visualization), SECURITY (Security Quickstart, Project Identity & Access, Database & Network Access, Activity Feed).
- Center Content:**
  - Clusters:** Shows "SaviMindAI-Cluster" (Status: GREEN). Buttons: Connect, View Monitoring, Browse Collections, ...
  - Learn about MongoDB Monitoring:** A callout with metrics: R: 0, Last 4 hours: 5.2s, Connections: 12.0, Last 6 hours: 10.0, In: 23.40 B/s, Out: 921.99 B/s, Last 6 hours: 4.07 kB/s, Data Size: 11.20 MB / 512.00 MB (2%), Last 30 days: 512.00 MB.
  - Cluster Details:** Version: 8.0.16, Region: Azure / Virginia-East2 (eastus2), Type: Replica Set - 3 nodes, Backups: Inactive, Linked App Services: None Linked, Atlas SQL: Connect, Atlas Search: Create Index.
- Bottom Status:** System Status: All Good

**Bottom Screenshot (Data Explorer View):**

- Left Sidebar:** Organization: Saravia Dev, Project: SaviMind-AI, Data Explorer (PREVIEW selected), My Queries, Data Modeling, CLUSTERS (SaviMindAI-Cluster expanded, showing sub-clusters like SaviMind, SaviMind-Local, SaviMind-PerformancePulse, SaviMind-churn\_db, admin, etc.).
- Center Content:** Data Explorer for "health\_monitoring" collection. Table headers: Collection name, Properties, Storage size, Documents, Avg. document size, Indexes, Total index size. Data rows:

Collection name	Properties	Storage size	Documents	Avg. document size	Indexes	Total index size
alerts	-	835.58 kB	17K	179.00 B	1	364.54 kB
health_monitoring	patients	430 kB	0	0 B	1	430 kB
	settings	36.86 kB	6	226.00 B	1	36.86 kB
	users	36.86 kB	1	187.00 B	1	36.86 kB
	vitals	1.20 MB	22K	154.00 B	1	470.04 kB
- Bottom Status:** System Status: All Good

GitHub Repo:



## GraphQL Queries

### Get all patients

The screenshot shows a GraphQL playground interface at <https://industrialapi.savimind.com/graphql>. The query is:

```
query GetPatients {
  patients(page: 1, pageSize: 10) {
    id
    name
    patientId
    status
    heartRate
    oxygenLevel
    bodyTemperature
    steps
    lastUpdate
  }
}
```

The response shows a list of 10 patients:

```
[{"id": "6921698bcfa4b689c955c50b", "name": "Patient string", "patientId": "string", "status": "ALERT", "heartRate": 84, "oxygenLevel": 96, "bodyTemperature": 38, "steps": 0, "lastUpdate": "2025-11-22T07:48:59.546000"}, {"id": "692174bacfa4b689c955c5de", "name": "Patient P-102", "patientId": "P-102", "status": "ALERT", "heartRate": 84, "oxygenLevel": 98, "bodyTemperature": 39.3, "steps": 1000, "lastUpdate": "2025-11-23T01:12:42.698000"}, {"id": "692183acfa4b689c955c51a", "name": "Patient P-202", "patientId": "P-202", "status": "ALERT", "heartRate": 79, "oxygenLevel": 98, "bodyTemperature": 37.5, "steps": 1000, "lastUpdate": "2025-11-23T01:12:42.698000"}, {"id": "692183acfa4b689c955c511", "name": "Patient P-181", "patientId": "P-181", "status": "ALERT", "heartRate": 86, "oxygenLevel": 93, "bodyTemperature": 37.2, "steps": 1000, "lastUpdate": "2025-11-23T01:12:45.650000"}, {"id": "692183acfa4b689c955c512", "name": "Patient P-189", "patientId": "P-103", "status": "ALERT", "heartRate": 86, "oxygenLevel": 95, "bodyTemperature": 36.750000}, {"id": "692183acfa4b689c955c513", "name": "Patient P-101", "patientId": "P-101", "status": "ALERT", "heartRate": 86, "oxygenLevel": 95, "bodyTemperature": 36.750000}, {"id": "692183acfa4b689c955c514", "name": "Patient P-101", "patientId": "P-101", "status": "ALERT", "heartRate": 86, "oxygenLevel": 95, "bodyTemperature": 36.750000}, {"id": "692183acfa4b689c955c515", "name": "Patient P-101", "patientId": "P-101", "status": "ALERT", "heartRate": 86, "oxygenLevel": 95, "bodyTemperature": 36.750000}, {"id": "692183acfa4b689c955c516", "name": "Patient P-101", "patientId": "P-101", "status": "ALERT", "heartRate": 86, "oxygenLevel": 95, "bodyTemperature": 36.750000}, {"id": "692183acfa4b689c955c517", "name": "Patient P-101", "patientId": "P-101", "status": "ALERT", "heartRate": 86, "oxygenLevel": 95, "bodyTemperature": 36.750000}],
```

### Get a Patient

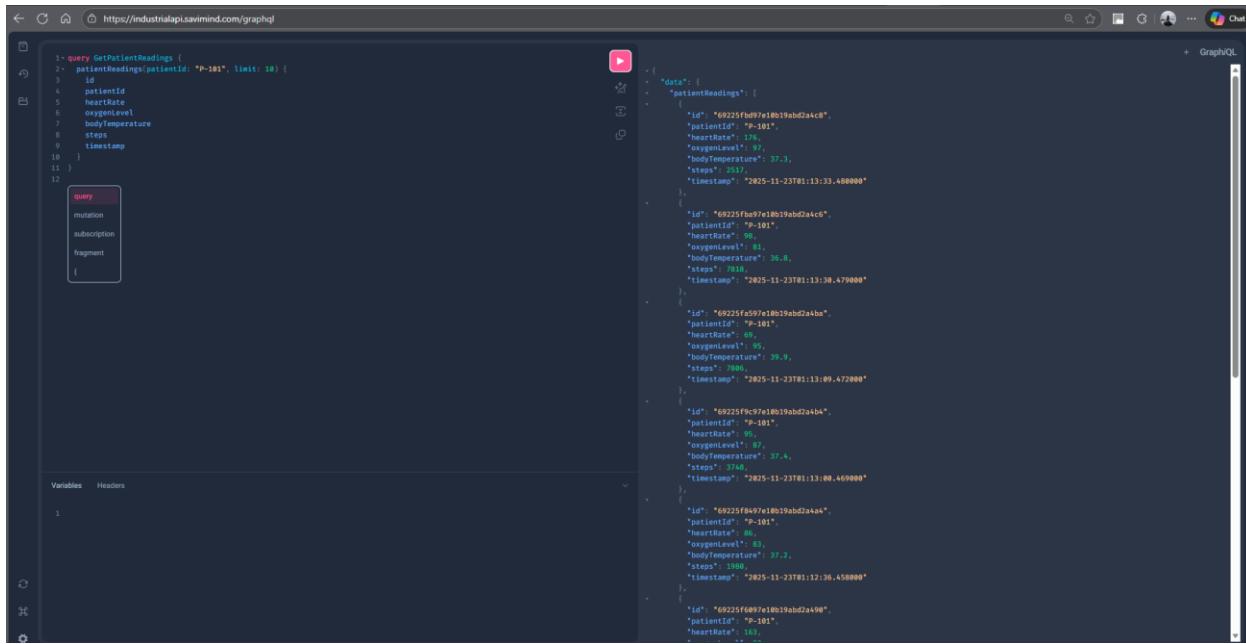
The screenshot shows a GraphQL playground interface at <https://industrialapi.savimind.com/graphql>. The query is:

```
query GetPatient {
  patient(patientId: "P-101") {
    id
    name
    patientId
    status
    heartRate
    oxygenLevel
    bodyTemperature
    steps
    lastUpdate
  }
}
```

The response shows one patient:

```
{"id": "692183acfa4b689c955c511", "name": "Patient P-181", "patientId": "P-181", "status": "ALERT", "heartRate": 86, "oxygenLevel": 95, "bodyTemperature": 36.750000}
```

## Patient Readings



```

1- query GetPatientReadings {
2-   patientReadings(patientId: "P-101", limit: 10) {
3-     id
4-     heartRate
5-     oxygenLevel
6-     bodyTemperature
7-     steps
8-     timestamp
9-   }
10- }
11- }

query mutation subscription fragment {
}

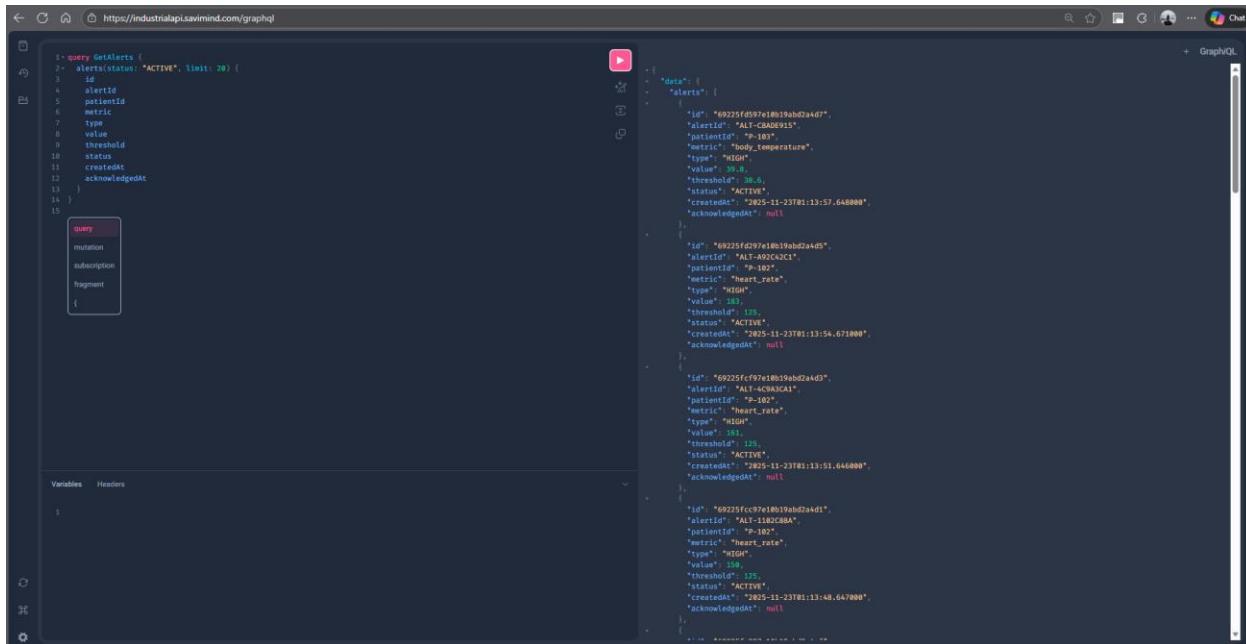
```

```

+ "data": {
  "patientReadings": [
    {
      "id": "69225fd97e10b19abd2a4c8",
      "patientId": "P-101",
      "heartRate": 176,
      "oxygenLevel": 97,
      "bodyTemperature": 37.3,
      "steps": 1000,
      "timestamp": "2025-11-23T01:13:33.480000"
    },
    {
      "id": "69225fd97e10b19abd2a4c6",
      "patientId": "P-101",
      "heartRate": 96,
      "oxygenLevel": 81,
      "bodyTemperature": 36.8,
      "steps": 1000,
      "timestamp": "2025-11-23T01:13:38.479000"
    },
    {
      "id": "69225fd97e10b19abd2a4ba",
      "patientId": "P-101",
      "heartRate": 69,
      "oxygenLevel": 95,
      "bodyTemperature": 39.9,
      "steps": 1000,
      "timestamp": "2025-11-23T01:13:49.472000"
    },
    {
      "id": "69225fd97e10b19abd2a4b4",
      "patientId": "P-101",
      "heartRate": 95,
      "oxygenLevel": 87,
      "bodyTemperature": 37.4,
      "steps": 1000,
      "timestamp": "2025-11-23T01:13:49.469000"
    },
    {
      "id": "69225fd97e10b19abd2a4a4",
      "patientId": "P-101",
      "heartRate": 86,
      "oxygenLevel": 83,
      "bodyTemperature": 37.2,
      "steps": 1000,
      "timestamp": "2025-11-23T01:12:36.458000"
    },
    {
      "id": "69225fd97e10b19abd2a49b",
      "patientId": "P-101",
      "heartRate": 100,
      "oxygenLevel": 85,
      "bodyTemperature": 37.0,
      "steps": 1000,
      "timestamp": "2025-11-23T01:12:36.456000"
    }
  ]
}

```

## GetAlerts



```

1- query GetAlerts {
2-   alerts(status: "ACTIVE", limit: 20) {
3-     id
4-     alertId
5-     patientId
6-     metric
7-     type
8-     value
9-     threshold
10-    status
11-    createdAt
12-    acknowledgedAt
13-  }
14- }

query mutation subscription fragment {
}

```

```

+ "data": {
  "alerts": [
    {
      "id": "69225fd97e10b19abd2a4d7",
      "alertId": "ALT-CBADE915",
      "patientId": "P-103",
      "metric": "body_temperature",
      "type": "LOW",
      "value": 94.5,
      "threshold": 38.6,
      "status": "ACTIVE",
      "createdAt": "2025-11-23T01:13:57.648000",
      "acknowledgedAt": null
    },
    {
      "id": "69225fd97e10b19abd2a4d5",
      "alertId": "ALT-123456789",
      "patientId": "P-102",
      "metric": "heart_rate",
      "type": "HIGH",
      "value": 183,
      "threshold": 128,
      "status": "ACTIVE",
      "createdAt": "2025-11-23T01:13:54.673000",
      "acknowledgedAt": null
    },
    {
      "id": "69225fd97e10b19abd2a4d5",
      "alertId": "ALT-4C9A3CA1",
      "patientId": "P-102",
      "metric": "heart_rate",
      "type": "HIGH",
      "value": 180,
      "threshold": 125,
      "status": "ACTIVE",
      "createdAt": "2025-11-23T01:13:54.673000",
      "acknowledgedAt": null
    },
    {
      "id": "69225fd97e10b19abd2a4d1",
      "alertId": "ALT-1102C0BAA",
      "patientId": "P-102",
      "metric": "heart_rate",
      "type": "HIGH",
      "value": 180,
      "threshold": 125,
      "status": "ACTIVE",
      "createdAt": "2025-11-23T01:13:48.647000",
      "acknowledgedAt": null
    }
  ]
}

```

## Ingestion

A screenshot of a GraphQL playground interface. The URL is <https://industrialapi.savimind.com/graphq>. The mutation code is:

```
1 mutation IngestVitalData {
2   ingestVitalData(
3     data: {
4       deviceId: "P-101"
5       heartRate: 82
6       oxygenLevel: 97
7       bodyTemperature: 36.9
8       steps: 5600
9       timestamp: "2025-11-10T10:25:00Z"
10    }
11    status
12    message
13    patientId
14    patientStatus
15  )
16}
```

The response shows a successful ingestion:

```
+ { "data": { "ingestVitalData": { "status": "OK", "message": "Vital data ingested", "patientId": "P-101", "patientStatus": "OK" } } }
```

## Alert Acknowledge:

A screenshot of a GraphQL playground interface. The URL is <https://industrialapi.savimind.com/graphq>. The mutation code is:

```
1 mutation AcknowledgeAlert {
2   acknowledgeAlert(alertId: "ALT-624CA96F") {
3     status
4     message
5     alertId
6   }
7 }
```

The response shows the alert acknowledged:

```
+ { "data": { "acknowledgeAlert": { "status": "OK", "message": "Alert ALT-624CA96F acknowledged", "alertId": "ALT-624CA96F" } } }
```

# REST API Swagger

The screenshot shows the OpenAPI JSON interface for the Smart Health Monitoring System API. The URL is [https://industrialapilavimind.com/docs#/Health/health\\_check\\_api\\_health\\_get](https://industrialapilavimind.com/docs#/Health/health_check_api_health_get). The page title is "REST + GraphQL API for Smart Health Monitoring System // SIS4415 Final Project". A green "Authorize" button is visible in the top right corner.

**Health**

**GET /api/health - Health Check**

GET /api/health Basic health check // no auth required

**Parameters**

No parameters

**Responses**

**curl**

```
curl -X GET \
  https://industrialapilavimind.com/api/health \
  -H 'Accept: application/json'
```

**Request URL**

<https://industrialapilavimind.com/api/health>

**Server response**

**Code** **Details**

200

**Response body**

```
{"status": "ok", "service": "Smart Health Monitoring API", "version": "1.0.0"}
```

**Download**

**Response headers**

```
content-length: 78
content-type: application/json
date: Tue, 20 Nov 2018 05:06:15 GMT
server: Apache/2.4.29 (Ubuntu)
x-edeck-authz-request-id: 3d0e0c3a-0001-4000-a000-000000000000
```

**Responses**

**Code** **Description** **Links**

200 Successful Response [No links](#)

**Media type**

application/json

Login

```
Curl
curl -X 'POST' \
  'https://industrialapi.savimind.com/api/auth/login' \
  -H 'Accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "username": "josaravia",
    "password": "String123"
}'

```

Request URL  
<https://industrialapi.savimind.com/api/auth/login>

Server response

Code	Details
200	<p>Response body</p> <pre>{   "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWJiOiI2OTIxNjNmMDRhMGUwMWYwtjg4NjMyNTExLC3leHA1OjE3NjQwNTA3OTUsImlhdCI6MTc2NDQ0NzE5NX0.vtR4b2GIE27WLEaxJy5KypmesGUFAVwOkj6AG3yKI",   "token_type": "bearer",   "expires_in": 3600 }</pre> <p>Response headers</p> <pre>access-control-expose-headers: * content-length: 224 content-type: application/json date: Mon, 06 Mar 2023 05:06:33 GMT server: unicorn x-ms-middleware-request-id: 00000000-0000-0000-0000-000000000000</pre>

Responses

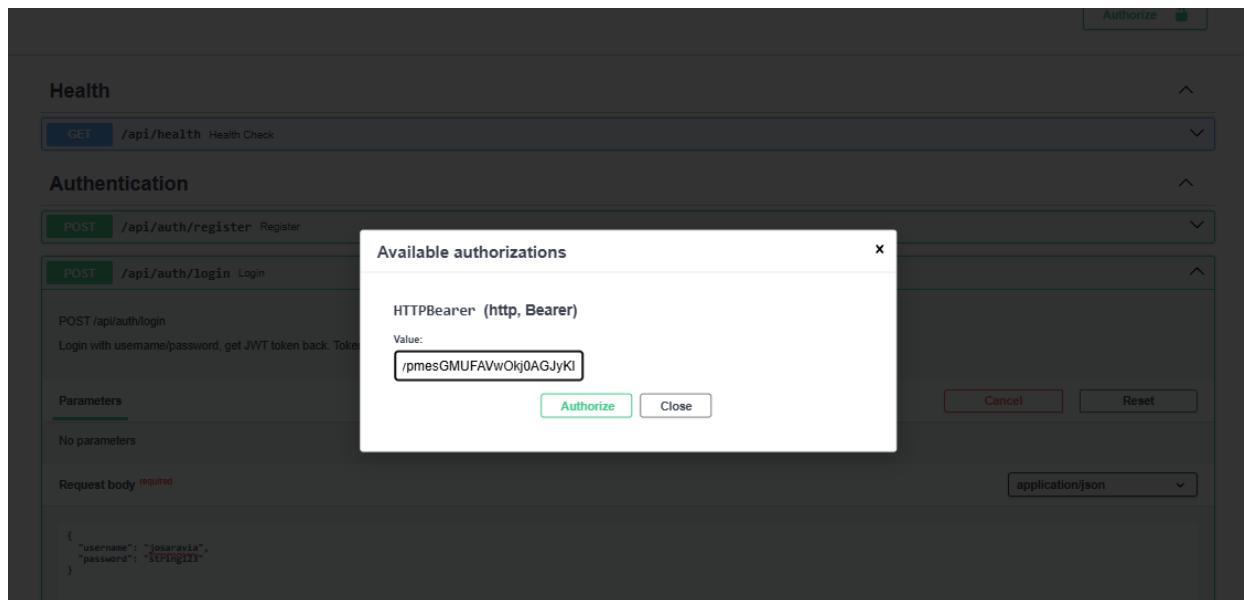
Code	Description	Links
200	Successful Response	No links

Media type  
[application/json](#) ▾  
Controls Accept header.

Example Value | Schema

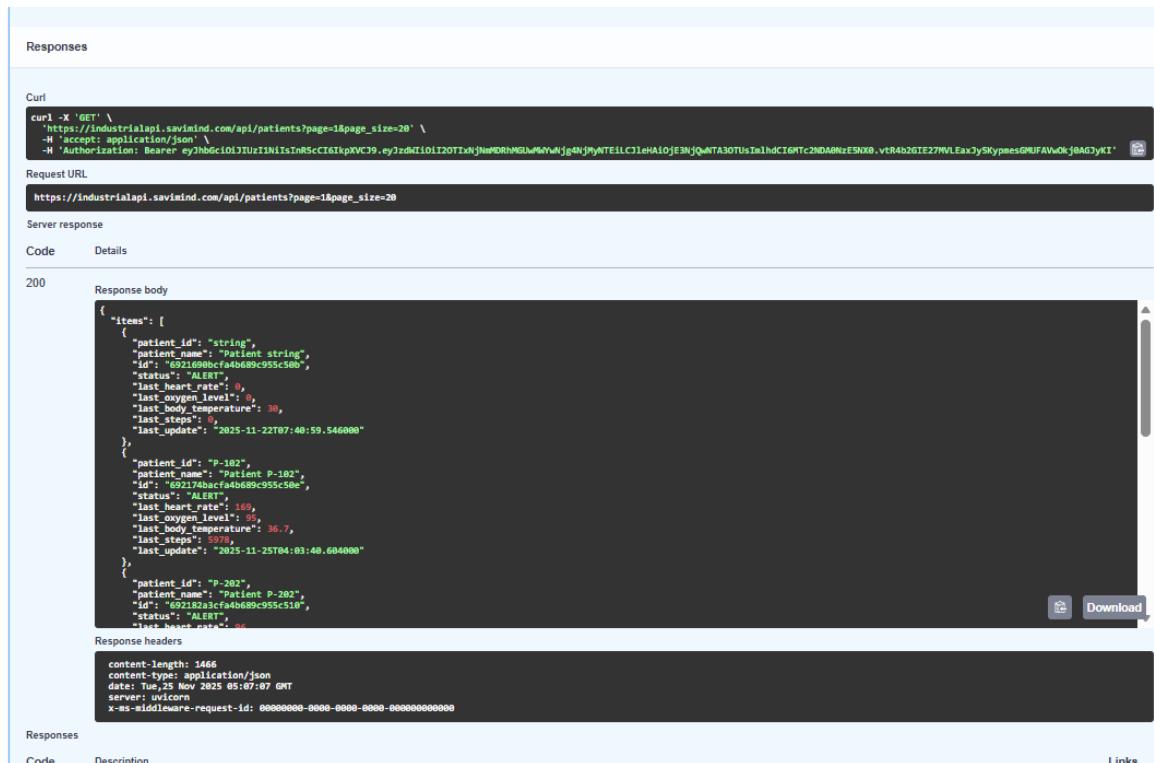
```
{
  "token": "string",
  "token_type": "bearer",
  "expires_in": 0
}
```

Validation Error



The screenshot shows a REST API tool interface. In the center, a modal dialog titled "Available authorizations" is open. It contains a section for "HTTPBearer (http, Bearer)" with a "Value:" field containing the token value: "/pmesGMUFAVwOkj0AGJyKI". Below the field are "Authorize" and "Close" buttons. In the background, there's a list of API endpoints under the "Authentication" category, including "/api/auth/register" (POST) and "/api/auth/login" (POST). The "/api/auth/login" entry has a detailed view expanded, showing a "Parameters" section (empty), a "Request body" section with a JSON payload, and a "Headers" section with "Content-Type: application/json".

## Get Patients



The screenshot shows a REST API tool interface for the "Patients" endpoint. Under the "Responses" tab, there's a "Curl" section with the command: curl -X 'GET' \ https://industrialapi.savimind.com/api/patients?page=1&page\_size=20 \ -H 'Accept: application/json' \ -H 'Authorization: Bearer eyJhbGciOiJIUzIiNiIsInR5cCI6IkpXVCJ9.eJxdWtI01T2OTIxNjNmDRhNGUuWYWhjgdnjMyNTE1LCleHAjOjE3MjQwNTA3OTUsTa1hdC16Tc2NDQ8NzESNx0.vtR4b2GIE27WLEaxJySkypesGmUFAvwOkj0AGJyKI'. Below it is a "Request URL" field with the URL: https://industrialapi.savimind.com/api/patients?page=1&page\_size=20. Under the "Server response" tab, the "Code" section is set to 200, and the "Details" section shows the "Response body" containing a JSON array of patient items. One item is highlighted with a red border, showing details like patient ID, name, status, and last update time. The "Response headers" section shows standard HTTP headers including Content-Length, Content-Type, Date, Server, and X-MS-Middleware-Request-ID.

## Active Alerts

Name	Description
status (query)	<input type="text" value="ACTIVE"/>
skip integer (query) minimum: 0	<input type="text" value="0"/>
limit integer (query) maximum: 100 minimum: 1	<input type="text" value="50"/>

Execute
Clear

---

Responses

Curl

```
curl -X 'GET' \
'https://industrialapi.savimind.com/api/alerts?status=ACTIVE&skip=0&limit=50' \
-H 'accept: application/json' \
-H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVC39eyJzdHlhdCI6IjI2OTIxNjNaMDRnMGluWmVdIjg4NjMyNTEiLC1leHAiOjE3NjQwNTA3OTUsImIhdC16MTc2NDQyZESXkB.vt84h26TE27HVLex3ySkypesgMUFAVwOkj8AG7yKI'
```

Request URL

```
https://industrialapi.savimind.com/api/alerts?status=ACTIVE&skip=0&limit=50
```

Server response

Code Details

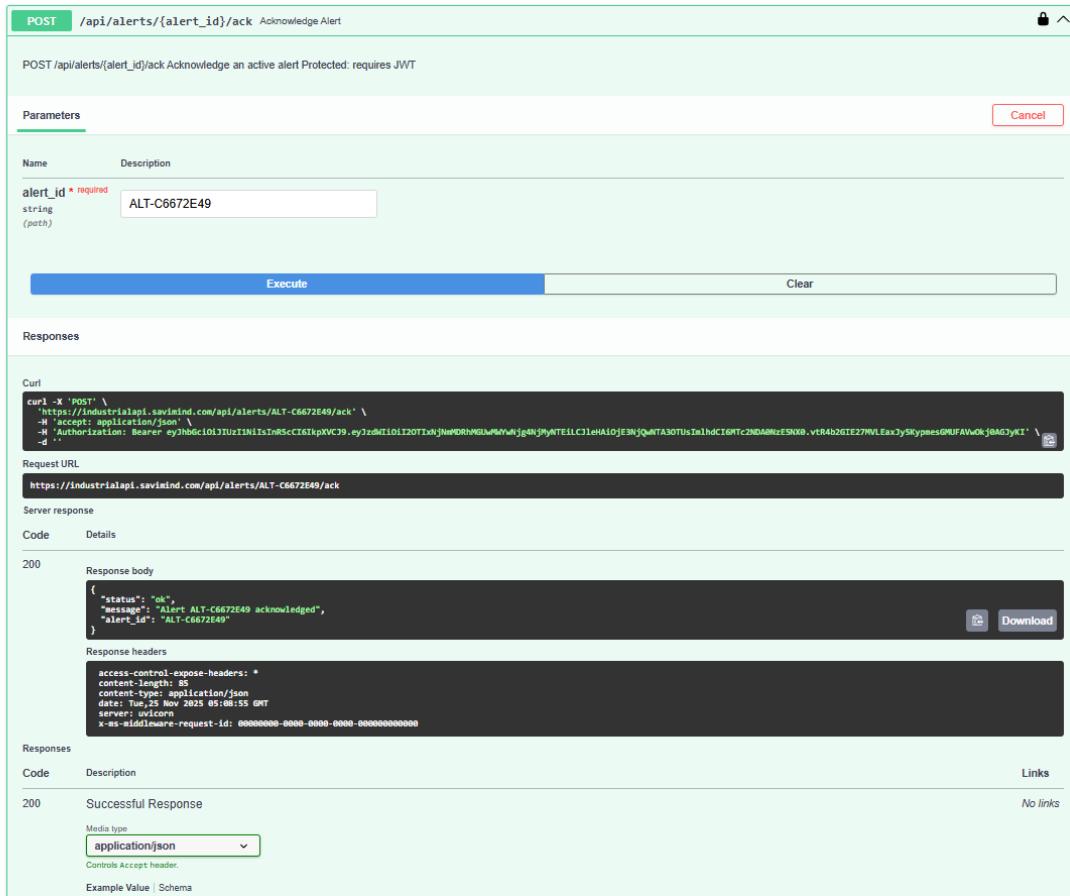
200 Response body

```
{
  "items": [
    {
      "patient_id": "P-202",
      "metric": "oxygen_level",
      "type": "LOW",
      "value": 90,
      "threshold": 93,
      "id": "69252aa8abef1d98963b4388",
      "alert_id": "ALT-C6672E49",
      "status": "ACTIVE",
      "created_at": "2025-11-25T04:03:52.544000",
      "acknowledged_at": null
    },
    {
      "patient_id": "P-202",
      "metric": "heart_rate",
      "type": "HIGH",
      "value": 168,
      "threshold": 125,
      "id": "69252aa8a16aa167b9fa3842",
      "alert_id": "ALT-C266571",
      "status": "ACTIVE",
      "created_at": "2025-11-25T04:03:49.569000",
      "acknowledged_at": null
    },
    {
      "patient_id": "P-103",
      "metric": "oxygen_level",
      "type": "LOW"
    }
  ]
}
```

Response headers

```
content-length: 11668
content-type: application/json
date: Tue, 25 Nov 2025 05:08:00 GMT
```

## Acknowledgement



**POST /api/alerts/{alert\_id}/ack Acknowledge Alert**

POST /api/alerts/{alert\_id}/ack Acknowledge an active alert Protected: requires JWT

**Parameters**

Name	Description
alert_id * required	ALT-C6672E49

**Responses**

**Curl**

```
curl -X 'POST' \
  'https://industrialapi.savimind.com/api/alerts/ALT-C6672E49/ack' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInRSQiLCI6IkpxVC99eyJzdWJ0IiI2OTIxNjM0DR1MGUwWWVnJg4hJyNTA3OTUsInIhdCI6TC2ND4mzESXNb.vTR4b2GIE27WfLax3y5kpmesGMUFAVwOkj8ACdyK1' \
  -d ''
```

**Request URL**

<https://industrialapi.savimind.com/api/alerts/ALT-C6672E49/ack>

**Server response**

Code	Details	Links
200	<p>Response body</p> <pre>{   "status": "ok",   "message": "Alert ALT-C6672E49 acknowledged",   "alert_id": "ALT-C6672E49" }</pre> <p>Response headers</p> <pre>access-control-expose-headers: * content-length: 14 content-type: application/json date: Tue, 25 Nov 2025 05:06:55 GMT server: unicorn x-as-middleware-request-id: 00000000-0000-0000-0000-000000000000</pre>	No links

**Responses**

Code	Description	Links
200	Successful Response	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

## Patient Readings (by id)

GET /api/patients/{patient\_id}/readings Get Patient Readings

GET /api/patients/{patient\_id}/readings Get recent readings for a patient Protected: requires JWT

Parameters

Name	Description
patient_id * required	string (path)
limit	integer (query) maximum: 100 minimum: 1

Responses

Curl

```
curl -X 'GET' \
  'https://industrialapi.savinmind.com/api/patients/P-103/readings?limit=10' \
  -H 'Accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJzdWIiOiIxMjM1NCjklMTIwNjQ2NTA3OTUsImhdCT6hTc2NDQWzE5NXB.vtR4b2GTE27WVLexJySkypesGMUFAVuOkjbAG3yK1'
```

Request URL

<https://industrialapi.savinmind.com/api/patients/P-103/readings?limit=10>

Server response

Code	Details
200	Response body

```
{
  "items": [
    {
      "id": "69252aa2a136ad67b9fa3841",
      "patient_id": "P-103",
      "heart_rate": 73,
      "oxygen_level": 99,
      "temperature": 37.1,
      "steps": 2166,
      "timestamp": "2025-11-25T04:03:46.372000"
    },
    {
      "id": "69252aa2a136ad67b9fa3835",
      "patient_id": "P-103",
      "heart_rate": 76,
      "oxygen_level": 98,
      "temperature": 36.7,
      "steps": 4408,
      "timestamp": "2025-11-25T04:03:28.366000"
    },
    {
      "id": "69252aa2a136ad67b9fa3829",
      "patient_id": "P-103"
    }
  ]
}
```

## Summary

GET /api/reports/summary Get Summary

GET /api/reports/summary?window\_minutes=5 Get aggregated stats for time window Protected: requires JWT

**Parameters**

Name	Description
window_minutes	integer (query) maximum: 1440 minimum: 1
patient_id	(query) P-102

**Responses**

**Curl**

```
curl -X 'GET' \
  'https://industrialapi.savimind.com/api/reports/summary?window_minutes=1440&patient_id=P-102' \
  -H 'Accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWJ1b3I2OTIxNjNmZDRNNGQubWYwIjg4NjMyNTExLC1ehAIOjE3NjQwMTA3OTUsImIhdCIGMTc2NDMmzESNx9.vtRAb2GTE27MVLeaxJy5KynesGMUFAVuOkj8AG2jyKI' 
```

**Request URL**

[https://industrialapi.savimind.com/api/reports/summary?window\\_minutes=1440&patient\\_id=P-102](https://industrialapi.savimind.com/api/reports/summary?window_minutes=1440&patient_id=P-102)

**Server response**

Code	Details
200	<b>Response body</b> <pre>{   "average_heart_rate": 109.9,   "minimum_oxygen_level": 80,   "alert_count": 302,   "window_minutes": 1440 }</pre> <p><a href="#">Download</a></p> <b>Response headers</b> <pre>content-length: 94 content-type: application/json date: Tue, 28 Nov 2025 05:14:01 GMT server: uvicorn x-asgi-iddleware-request-id: 00000000-0000-0000-0000-000000000000</pre>

**Responses**

Code	Description
------	-------------

**Links**

## CSV

GET /api/reports/export Export Csv

GET /api/reports/export?window\_minutes=5&format=csv Export readings as CSV Protected: requires JWT

Parameters

Name	Description
window_minutes	1440 Integer (query) maximum: 1440 minimum: 1
patient_id	P-101 (query)
format	CSV (query)

**Execute** **Clear**

Responses

Curl

```
curl -X 'GET' \
  'https://industrialapi.savimind.com/api/reports/export?window_minutes=1440&patient_id=P-101&format=csv' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NitsInRScC16IkVJC9.eYzdMII0I20TlxNjNmDRhMGUuMWYwlg4nJhYNE1lCJleHA10jE3NjQwNTA3OTusIm1hdC16Tc2NDa0NxESNx0.vtR4b2GIE27WLEax3ySkypes@MUFAvOkj8AG7yKI'
```

Request URL

[https://industrialapi.savimind.com/api/reports/export?window\\_minutes=1440&patient\\_id=P-101&format=csv](https://industrialapi.savimind.com/api/reports/export?window_minutes=1440&patient_id=P-101&format=csv)

Server response

Code Details

200 Response body

```
patient_id,heart_rate,oxygen_level,body_temperature,steps,timestamp
P-101,146,95,37.0,2092,2025-11-25T04:03:14.367000
P-101,146,96,36.9,5682,2025-11-25T04:03:31.367000
P-101,146,96,37.0,2092,2025-11-25T04:03:48.367000
P-101,97,96,37.0,2092,2025-11-25T04:03:55.367000
P-101,97,96,37.0,2092,2025-11-25T04:04:02.367000
P-101,77,94,39.0,4,2081,2025-11-25T04:02:28.343000
P-101,77,86,37.0,4,1293,2025-11-25T04:00:58.319000
P-101,150,98,36.9,4874,2025-11-25T04:00:46.316000
P-101,150,98,36.9,4874,2025-11-25T04:00:46.316000
P-101,92,96,39.0,4,4844,2025-11-25T04:00:07.303000
P-101,89,94,40.0,1182,2025-11-25T03:59:52.259000
P-101,175,96,36.8,6874,2025-11-25T03:59:43.297000
P-101,175,96,36.8,6874,2025-11-25T03:59:43.297000
P-101,150,98,36.9,7,2434,2025-11-25T03:59:12.236000
P-101,98,95,39.0,7,690,2025-11-25T03:59:22.292000
P-101,143,95,37.0,5197,2025-11-25T03:59:19.291000
P-101,87,98,39.0,7743,2025-11-25T03:59:16.290000
P-101,62,94,40.0,7530,2025-11-25T03:59:10.289000
```