API description

# Available APIs Overview

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| --- | --- | --- |
| **Resource** | **HTTP Request** | **Description** |
| /heartrate | **Get** | Retrieves all the Heart Rate data available from the server. |
| /heartrate/:id | **Post** | Heart Rate data with its associated wearable id is sent to the local server to be able to store the data. |
| /acc | **Get** | Retrieves all the Linear Acceleration data available from the server. |
| /acc/:id | **Post** | Linear Acceleration data with its associated wearable id is sent to the local server to be able to store the data. |
| /ecg | **Get** | Retrieves all the Electrocardiography data available from the server. |
| /ecg/:id | **Post** | Electrocardiography data with its associated wearable id is sent to the local server to be able to store the data. |
| /magn | **Get** | Retrieves all the Magnetometer data available from the server. |
| /magn/:id | **Post** | Magnetometer data with its associated wearable id is sent to the local server to be able to store the data. |
| /gyro | **Get** | Retrieves all the Gyroscope data available from the server. |
| / gyro /:id | **Post** | Gyroscope data with its associated wearable id is sent to the local server to be able to store the data. |
| /imu | **Get** | Retrieves all the IMU data available from the server. |
| /imu/:id | **Post** | IMU data with its associated wearable id is sent to the local server to be able to store the data. |

# Glossary

**Movesense** is an open sensor development platform for sports, health, research, manufacturing, and more. - Movesense by Suunto. (2022, April 20). *Wearable sensor*. Movesense. Retrieved October 6, 2022, from https://www.movesense.com/#:%7E:text=Movesense%20is%20an%20open%20sensor,Finnish%20sports%20watch%20expert%20Suunto.

**Suunto** is at the forefront of design and innovation for sports watches, dive computers and instruments used by adventurers all over the globe. - *Suunto | About Us | We stand for adventure*. (n.d.). Suunto. Retrieved October 6, 2022, from https://www.suunto.com/About-Suunto/

# Available APIs

Currently the server is running locally on localhost so the structure of each API call follow <http://localhost:8080> + API call.

## /heartrate

/heartrate : GET

This API provides heart rate data available from the server that mimics a wearable device. This API can be used to call data for instance from a device if we are able to use movesense or suunto’s APIs.

**Response:**

For now, the response of the API is an example of how heart rate data can be sent from a wearable.

## /heartrate/:id

/heartrate/:id : POST

This API is to be seen as what API the wearable/ mobile application would call to POST their data to the backend. With the help of this API and mimicking how the heart rate data of a wearable is sent, can we use this as mock data for when real time data can be sent from a device.

**Response:**

For now, the response of the API sends a message saying that data has been sent.

{

“Data of wearable with id 23 has posted heart rate data”

}

## /acc

/acc : GET

This API provides Linear Acceleration data available from the server that mimics a wearable device. This API can be used to call data for instance from a device if we are able to use movesense or suunto’s APIs.

**Response:**

For now, the response of the API is an example of how Linear Acceleration data can be sent from a wearable.

## /acc/:id

/acc/:id : POST

This API is to be seen as what API the wearable/ mobile application would call to POST their data to the backend. With the help of this API and mimicking how the Linear Acceleration data of a wearable is sent, can we use this as mock data for when real time data can be sent from a device.

**Response:**

For now, the response of the API sends a message saying that data has been sent.

{

“Data of wearable with id 23 has posted Linear Acceleration data”

}

## /ecg

/ecg/ : GET

This API provides Electrocardiography data available from the server that mimics a wearable device. This API can be used to call data for instance from a device if we are able to use movesense or suunto’s APIs.

**Response:**

For now, the response of the API is an example of how Electrocardiography data can be sent from a wearable.

## /ecg/:id

/ecg/:id: POST

This API is to be seen as what API the wearable/ mobile application would call to POST their data to the backend. With the help of this API and mimicking how the Electrocardiography data of a wearable is sent, can we use this as mock data for when real time data can be sent from a device.

**Response:**

For now, the response of the API sends a message saying that data has been sent.

{

“Data of wearable with id 23 has posted Electrocardiography data”

}

## /magn

/magn : GET

This API provides Magnetometer data available from the server that mimics a wearable device. This API can be used to call data for instance from a device if we are able to use movesense or suunto’s APIs.

**Response:**

For now, the response of the API is an example of how Magnetometer data can be sent from a wearable.

## /magn/:id

/magn : POST

This API is to be seen as what API the wearable/ mobile application would call to POST their data to the backend. With the help of this API and mimicking how the Magnetometer data of a wearable is sent, can we use this as mock data for when real time data can be sent from a device.

**Response:**

For now, the response of the API sends a message saying that data has been sent.

{

“Data of wearable with id 23 has posted Magnetometer data”

}

## /gyro

/gyro : GET

This API provides Gyroscope data available from the server that mimics a wearable device. This API can be used to call data for instance from a device if we are able to use movesense or suunto’s APIs.

**Response:**

For now, the response of the API is an example of how Gyroscope data can be sent from a wearable.

## /gyro/:id

/gyro: POST

This API is to be seen as what API the wearable/ mobile application would call to POST their data to the backend. With the help of this API and mimicking how the Gyroscope data of a wearable is sent, can we use this as mock data for when real time data can be sent from a device.

**Response:**

For now, the response of the API sends a message saying that data has been sent.

{

“Data of wearable with id 23 has posted Gyroscope data”

}

## /imu

/IMU : GET

This API provides IMU data available from the server that mimics a wearable device. This API can be used to call data for instance from a device if we are able to use movesense or suunto’s APIs.

**Response:**

For now, the response of the API is an example of how IMU data can be sent from a wearable.

## /imu/:id

/IMU : POST

This API is to be seen as what API the wearable/ mobile application would call to POST their data to the backend. With the help of this API and mimicking how the IMU data of a wearable is sent, can we use this as mock data for when real time data can be sent from a device.

**Response:**

For now, the response of the API sends a message saying that data has been sent.

{

“Data of wearable with id 23 has posted IMU data”

}