

CIC

RESTful-API

Team 14

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This is from the asset manager to the database

https://documenter.getpostman.com/view/3762040/RzfcMrP6

This is from the gateway to the database:

https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway

Usage	http	Endpoints
To initialize a gateway use this link:	POST	https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/initialize
To post heartbeat use this link:	POST	https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/heartbeat
To post on demand diagnostic use this link:	POST	https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/diagnosticResult
To post daily diagnostic use this link:	POST	https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/dailyDiagnosticResult

How to call a POST on https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/initialize

In the body:

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "isInitialized": true,
  "personName": "John"
}
```

Response:

```
{
  "message": "Gateway initialized!",
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJnYXRld2F5SWQ1OjI1YmRmZDNkOTJhOWEyZTc1Yjk3ZTk4MjEiLCJpc0luaXRpYWxpemVkiJp0cnVlLCJpYXQ1OjE1NDIxNzExOTF9.U4Ls1f-dJRjiyPFxfLbZotn7tQn2BRBhKPWjCpDTvWA"
}
```

How to call a POST on https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/heartbeat

In the headers include the token:

Key: token = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJnYXRld2F5SWQ1OjI1YmRmZDNkOTJhOWEyZTc1Yjk3ZTk4MjEiLCJpc0luaXRpYWxpemVkiJp0cnVlLCJpYXQ1OjE1NDIxNzExOTF9.U4Ls1f-dJRjiyPFxfLbZotn7tQn2BRBhKPWjCpDTvWA

In the body:

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "timestamp": 1542604229.343783
}
```

Response:

```
{
  "heartbeatPosted": {
    "_id": "5b180ba0-df8f-11e8-9b95-8b7579ebb71d",
    "gatewayId": "5bdfd3d92a9a2e75b97e9821",
    "timestamp": 1542604229.343783,
    "__v": 0
  },
  "onDemandDiagnostic": [
    {
      "_id": "50b3fb10-df8f-11e8-9b95-8b7579ebb71d",
      "gatewayId": "5bdfd3d92a9a2e75b97e9821",
      "diagnosticToRun": "CPU",
      "__v": 0
    }
  ],
  "dailyDiagnostics": [
```

```
    {
      "_id": "66241170-df8e-11e8-9b95-8b7579ebb71d",
      "gatewayId": "5bdfd3d92a9a2e75b97e9821",
      "startTime": 1542604229.343783,
      "repeatTest": "2",
      "waitTime": "60",
      "diagnosticToRun": "CPU",
      "__v": 0
    }
  ]
}
```

When there is no on demand diagnostic example:

In the headers include the token:

Key: token = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJnYXRld2F5SWQ1OjI1YmRmZDNkOTJhOWE5ZTc1YjYk3ZTk4MjEiLCJpc0luaXRpYWxpemVkaWp0cnVlLCJpYXQ1OjE1NDIxNzExOTF9.U4LsLf-dJRjiyPFxfLbZotn7tQn2BRBhKPWjCpDTvWA

In the body:

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "timestamp": 1542604229.343783
}
```

Response:

```
"heartbeatPosted": {
  "_id": "5b180ba0-df8f-11e8-9b95-8b7579ebb71d",
  "gatewayId": "5bdfd3d92a9a2e75b97e9821",
  "timestamp": 1542604229.343783,
  "__v": 0
},
"onDemandDiagnostic": [],
"dailyDiagnostics": [
  {
    "_id": "66241170-df8e-11e8-9b95-8b7579ebb71d",
    "gatewayId": "5bdfd3d92a9a2e75b97e9821",
    "startTime": 1542604229.343783,
    "repeatTest": "2",
    "waitTime": "60",
    "diagnosticToRun": "CPU",
    "__v": 0
  }
]
```

When there is no on demand diagnostic and no daily diagnostic example:\*\*

In the headers include the token:

Key: token = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJnYXRld2F5SWQ1OjI1YmRmZDNkOTJhOWE5ZTc1YjYk3ZTk4MjEiLCJpc0luaXRpYWxpemVkaWp0cnVlLCJpYXQ1OjE1NDIxNzExOTF9.U4LsLf-dJRjiyPFxfLbZotn7tQn2BRBhKPWjCpDTvWA

In the body:

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "timestamp": 1542604229.343783,
  "longitude": "-97.755190",
  "latitude": "30.230330",
  "steps": "5000",
  "heartRate": "101",
  "calories": "484",
  "sleep": "8"
}
```

*Response:*

```
"heartbeatPosted": {
  "id": "5b180ba0-df8f-11e8-9b95-8b7579ebb71d",
  "gatewayId": "5bdf3d3a92a9a2e75b97e9821",
  "timestamp": 1542604229.343783,
  "__v": 0
},
"onDemandDiagnostic": [],
"dailyDiagnostics": []
```

### Errors:

**Failing to fill the timestamp variable:**

*In the headers include the token:*

Key: token = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJnYXRld2F5SWQ0IiIyMmRmZDNkOTJhOWEY2TC1Yjk3ZTktMjYwLWVlLnNpdCI6ImVudC00IiwiaWF0IjoiMTYxODU0MDAwMC4ifQ.

*In the body:*

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "timestamp": ""
}
```

**Response:**

```
{
  "error": {
    "errors": {
      "timestamp": {
        "message": "Path `timestamp` is required.",
        "name": "ValidatorError",
        "properties": {
          "message": "Path `timestamp` is required.",
          "type": "required",
          "path": "timestamp",
          "value": ""
        },
        "kind": "required",
        "path": "timestamp",
        "value": "",
        "$isValidatorError": true
      }
    },
    "_message": "Heartbeat validation failed",
    "message": "Heartbeat validation failed: timestamp: Path `timestamp` is required.",
    "name": "ValidationError"
  }
}
```

### Failing to provide a gateway id:

*In the headers include the token:*

Key: token = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyNXRld2F5SWQ0Ii1YmRmZDNoK0JhOWEYdCt1Yjk3ZTkwMjEiLCJpc0luaXRPYXpewVkpjpc0nVlLCJpYXQ0IjE1NDIuXzExOTF9.U4Ls1f-dJRjiyPxfLbZotn7tQn2BRBhKPWjCpDTvwa

*In the body:*

```
{
  "timestamp": 1542604229.343783
}
```

Response:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>Error</title>
  </head>
  <body>
    <pre>Error: Not found
    <br> &nbsp; &nbsp; &nbsp;at app.use (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/app.js:35:19)
    <br> &nbsp; &nbsp; &nbsp;at Layer.handle [as handle_request] (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/layer.js:95:5)
    <br> &nbsp; &nbsp; &nbsp;at trim_prefix (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:317:13)
    <br> &nbsp; &nbsp; &nbsp;at /Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:284:7
    <br> &nbsp; &nbsp; &nbsp;at Function.process_params (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:335:12)
    <br> &nbsp; &nbsp; &nbsp;at next (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:275:10)
    <br> &nbsp; &nbsp; &nbsp;at /Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:635:15
    <br> &nbsp; &nbsp; &nbsp;at next (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:260:14)
    <br> &nbsp; &nbsp; &nbsp;at Function.handle (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:174:3)
    <br> &nbsp; &nbsp; &nbsp;at router (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:47:12)
    <br> &nbsp; &nbsp; &nbsp;at Layer.handle [as handle_request] (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/layer.js:95:5)
    <br> &nbsp; &nbsp; &nbsp;at trim_prefix (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:317:13)
    <br> &nbsp; &nbsp; &nbsp;at /Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:284:7
    <br> &nbsp; &nbsp; &nbsp;at Function.process_params (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:335:12)
    <br> &nbsp; &nbsp; &nbsp;at next (/Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/node_modules/express/lib/router/index.js:275:10)
    <br> &nbsp; &nbsp; &nbsp;at /Users/ammalfarhan/Desktop/SWEII/CIC/RESTful-server/app.js:26:5
    </pre>
  </body>
</html>
```

Failing to include a token:

In the body:

```
{
  "gatewayId": "5bdfd3d92a9a2e75b97e9821",
  "timestamp": 1542604229.343783
}
```

Response:

```
{
  "message": "No token provided"
}
```

How to call a POST on <https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/diagnosticResult>

In the headers include the token:

Key: token = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyYXRld2F5SWQ0i1IiYmRmZDnk0Tjh0WEY2Tc1YjK3ZTk4MjEiLCJpc0luaXRpYXp0cnVLLCJpYXQ0jE1NDIxNzExOTF9.U4LsLf-dJRjiyPFxfLbZotn7tQn2BRBhKPWjCpDTvWA

In the body:

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "diagnosticToRun": "Memory",
  "startTimestamp": 1542604229.343783,
  "finishTimestamp": 1542605252.458391,
  "diagnosticResult": "56%"
}
```

Response:

```
{
  "Status": "Created",
  "diagnosticPerformed": {
    "_id": "f02a65a0-fc25-11e8-8a85-ef2770cde4ca",
    "gatewayId": "5be161df26c56e70575493ac",
    "diagnosticToRun": "Memory",
    "startTimestamp": 1542604229.343783,
```

Errors:

Failing to fill any of the fields will result to this error:

```
{
  "error": {
    "errors": {
      "gatewayId": {
        "message": "Path `gatewayId` is required.",
        "name": "ValidatorError",
        "properties": {
          "message": "Path `gatewayId` is required.",
          "type": "required",
          "path": "gatewayId"
        },
        "kind": "required",
        "path": "gatewayId",
        "$isValidatorError": true
      },
      "diagnosticToRun": {
        "message": "Path `diagnosticToRun` is required.",
        "name": "ValidatorError",
        "properties": {
          "message": "Path `diagnosticToRun` is required.",
          "type": "required",
          "path": "diagnosticToRun"
        },
        "kind": "required",
        "path": "diagnosticToRun",
        "$isValidatorError": true
      },
      "startTimestamp": {
        "message": "Path `startTimestamp` is required.",
        "name": "ValidatorError",
        "properties": {
          "message": "Path `startTimestamp` is required.",
          "type": "required",
          "path": "startTimestamp"
        },
        "kind": "required",
        "path": "startTimestamp",
        "$isValidatorError": true
      },
      "finishTimestamp": {
        "message": "Path `finishTimestamp` is required.",
        "name": "ValidatorError",
        "properties": {
          "message": "Path `finishTimestamp` is required.",
          "type": "required",
          "path": "finishTimestamp"
        },
        "kind": "required",
        "path": "finishTimestamp",
        "$isValidatorError": true
      },
      "diagnosticResult": {
        "message": "Path `diagnosticResult` is required.",
        "name": "ValidatorError",
        "properties": {
          "message": "Path `diagnosticResult` is required.",
          "type": "required",
          "path": "diagnosticResult"
        }
      }
    }
  }
}
```

```
    },
    "kind": "required",
    "path": "diagnosticResult",
    "$isValidatorError": true
  }
},
"message": "OnDemandDiagnosticHistory validation failed",
"message": "OnDemandDiagnosticHistory validation failed: preformDiagnostic: Path `preformDiagnostic` is required., gatewayId: Path `gatewayId` is required., diagnosticToRun: Path `diagnosticToRun` is required., startTimestamp: Path `startTimestamp` is required.",
"name": "ValidationError"
}
```

Failing to include a token:

In the body:

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "diagnosticToRun": "Memory",
  "startTimestamp": 1542604229.343783,
  "finishTimestamp": 1542605252.458391,
  "diagnosticResult": "56%"
}
```

Response:

```
{
  "message": "No token provided"
}
```

How to call a POST on <https://itsonlytemporary.dev.softwareengineeringii.com/api/gateway/dailyDiagnosticResult>

In the headers include the token:

Key: token = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJnYXRld2F5SWQwIiI1YmRmZDNkOTJhOWEyaZTc1Yjk3ZTk4MjEiLCJpc0luaXRpYXp0cmVLLCJpYXQ0IjE1NDIxNzExOTF9.U4LsLf-dJRjiyPFxfLbZotn7tQn2BRBhKPWjCp0TvWA

In the body:

```
{
  "GWId": "5bdfd3d92a9a2e75b97e9821",
  "diagnosticToRun": "Memory",
  "startTimestamp": 1542604229.343783,
  "finishTimestamp": 1542605252.458391,
  "diagnosticResult": "56%"
}
```

Response:

```
{
  "dailyDiagnosticPerformed": {
    "_id": "1acab410-dfa5-11e8-a1e0-f9063e983a88",
    "gatewayId": "5bdfd3d92a9a2e75b97e9821",
    "diagnosticToRun": "Memory",
    "startTimestamp": "153984.36",
    "finishTimestamp": "1573249.55",
    "diagnosticResult": "56%",
    "__v": 0
  }
}
```