

实现 RunningInformationAnalysisService

功能要求:

每一个 RunningInformation 都包含

runningId,
latitude,
longitude,
runningDistance,
totalRunningTime,
heartRate,
Timestamp,
userInfo

其中 userInfo 包含了

username,
address

HeartRate 初始值为 0，要求当数据插入数据库时候生成一个 60-200 中间的随机数

要求

RunningInformation 存储在 RUNNING_ANALYSIS 表里

要求设计 REST API 能够返回符合如下条件的 JSON Response:

```
{  
  "runningId": "7c08973d-bed4-4cbd-9c28-9282a02a6032",  
  "totalRunningTime": 2000,  
  "heartRate": 75,  
  "userId": 1,  
  "userName": "Ross",  
  "userAddress": "504 CS Street, Mountain View, CA 88888",  
  "healthWarningLevel": HIGH  
}
```

要求返回结果按照 healthWarningLevel 从高到低进行排列，每页显示两个数据

同时 REST API 能支持 delete by running ID 操作

提示:

HealthWarningLevel 由 heartRate 大小决定

如果 heartRate >= 60 && <= 75 healthWarningLevel = "LOW"

如果 heartRate > 75 && <= 120 healthWarningLevel = "NORMAL"

如果 heartRate > 120 healthWarningLevel = "HIGH"

数据库要求用 MySQL 实现

JSON 输入

```
[
  {
    "runningId": "7c08973d-bed4-4cbd-9c28-9282a02a6032",
    "latitude": "38.9093216",
    "longitude": "-77.0036435",
    "runningDistance": "39492",
    "totalRunningTime": "2139.25",
    "heartRate": 0,
    "timestamp": "2017-04-01T18:50:35Z",
    "userInfo": {
      "username": "ross0",
      "address": "504 CS Street, Mountain View, CA 88888"
    }
  },
  {
    "runningId": "07e8db69-99f2-4fe2-b65a-52fbbdf8c32c",
    "latitude": "39.927434",
    "longitude": "-76.635816",
    "runningDistance": "1235",
    "totalRunningTime": "3011.23",
    "heartRate": 0,
    "timestamp": "2017-04-01T18:50:35Z",
    "userInfo": {
      "username": "ross1",
      "address": "504 CS Street, Mountain View, CA 88888"
    }
  },
  {
    "runningId": "2f3c321b-d239-43d6-8fe0-c035ecdff232",
    "latitude": "40.083824",
    "longitude": "-76.098019",
    "runningDistance": "23567",
    "totalRunningTime": "85431.23",
    "heartRate": 0,
    "timestamp": "2017-04-01T18:50:35Z",
    "userInfo": {
      "username": "ross2",
      "address": "504 CS Street, Mountain View, CA 88888"
    }
  }
]
```

```
},
{
  "runningId": "28810a26-25e6-4680-8baf-59bb07c4aee0",
  "latitude": "42.957466",
  "longitude": "-76.344201",
  "runningDistance": "11135",
  "totalRunningTime": "98965",
  "heartRate": 0,
  "timestamp": "2017-04-01T18:50:35Z",
  "userInfo": {
    "username": "ross3",
    "address": "504 CS Street, Mountain View, CA 88888"
  }
},
{
  "runningId": "fb0b4725-ac25-4812-b425-d43a18c958bb",
  "latitude": "38.5783821",
  "longitude": "-77.3242436",
  "runningDistance": "231",
  "totalRunningTime": "123",
  "heartRate": 0,
  "timestamp": "2017-04-01T18:50:35Z",
  "userInfo": {
    "username": "ross4",
    "address": "504 CS Street, Mountain View, CA 88888"
  }
},
{
  "runningId": "35be446c-9ed1-4e3c-a400-ee59bd0b6872",
  "latitude": "42.375786",
  "longitude": "-76.870872",
  "runningDistance": "0",
  "totalRunningTime": "0",
  "heartRate": 0,
  "timestamp": "2017-04-01T18:50:35Z",
  "userInfo": {
    "username": "ross5",
    "address": "504 CS Street, Mountain View, CA 88888"
  }
},
{
  "runningId": "15dfe2b9-e097-4899-bcb2-e0e8e72416ad",
  "latitude": "40.2230391039276",
  "longitude": "-76.0626631118454",
  "runningDistance": "0.1",
  "totalRunningTime": "0.1",
  "heartRate": 0,
  "timestamp": "2017-04-01T18:50:35Z",
```

```
"userInfo": {  
  "username": "ross6",  
  "address": "504 CS Street, Mountain View, CA 88888"  
}  
}  
]
```