

## 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private 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"  
}  
}  
]
```



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