**Step 1: First Create Database in DB(MySQL)**

create database robotdb;

**Step 2: Change the Application DB settings by going to application.properties file**

//Server port for this example is 8085

server.port=<port>

spring.datasource.url=jdbc:mysql://localhost:3307/robotdb

spring.datasource.username=<database user name>

spring.datasource.password=<database password>

**Step 3: Then download/check out the code from Github and extract it.**

**Build:** mvn clean install

**Run:** mvn spring-boot:run

**REST API**

1. **Add Survivor :**

**Url : http://localhost:8085/api/v1/survivor**

**Method type :** Post

**Body :** {

    "name" : "test",

    "age": 21,

    "gender" : "female",

    "location": {

        "latitude" : "12.39",

        "longitude" : "24.34"

    },

    "inventory" : {

        "water" : "1000",

        "food" : "coldrinks",

        "medication": "dolo650",

        "ammunition": "test"

    }

}

**Response :**

{

    "id": 7,

    "name": "test",

    "age": 21,

    "gender": "female",

    "status": "non\_infected",

    "location": {

        "latitude": "12.39",

        "longitude": "24.34"

    },

    "inventory": {

        "id": 8,

        "water": "1000",

        "food": "coldrinks",

        "medication": "dolo650",

        "ammunition": "test"

    }

}

1. **Update Survivor Location:**

**Url :** [**http://localhost:8085/api/v1/survivor/<survivor id>**](http://localhost:8085/api/v1/survivor/%3csurvivor%20id%3e)

**Example**: [**http://localhost:8085/api/v1/survivor/7**](http://localhost:8085/api/v1/survivor/7)

**Method type :** put

**Body :** {

    "latitude": "12.39",

    "longitude": "24.34"

}

**Response :**

{

    "id": 7,

    "name": "test",

    "age": 21,

    "gender": "female",

    "status": "non\_infected",

    "location": {

        "latitude": "12.39",

        "longitude": "24.34"

    },

    "inventory": {

        "id": 8,

        "water": "1000",

        "food": "coldrinks",

        "medication": "dolo650",

        "ammunition": "test"

    }

}

1. **Mark Survivor infected :**

**Url :** [**http://localhost:8085/api/v1/infected/<survior**](http://localhost:8085/api/v1/infected/%3csurvior) **id>**

**Example :** [**http://localhost:8085/api/v1/infected/7**](http://localhost:8085/api/v1/infected/7)

**Method type :** post

**Body :**

**Response :**

{

    "id": 7,

    "name": "test",

    "age": 21,

    "gender": "female",

    "noTimesinfected": 1,

    "status": "non\_infected",

    "location": {

        "latitude": "12.39",

        "longitude": "24.34"

    },

    "inventory": {

        "id": 8,

        "water": "1000",

        "food": "coldrinks",

        "medication": "dolo650",

        "ammunition": "test"

    }

}

**Reports**

1. **Get Survivors Reports**

**Url :** [**http://localhost:8085/api/v1/reports/survivor**](http://localhost:8085/api/v1/reports/survivor)

**Method type :** get

**Response :**

{

"nonInfectedPercentage":"67%",

"infectedPercentage":"33%",

"infectedSurvivors":[

{

"id":4,

"name":"Bala",

"age":39,

"gender":"male",

"noTimesinfected":3,

"status":"infected",

"location":{

"latitude":"12.39",

"longitude":"24.34"

},

"inventory":{

"id":5,

"water":"1000",

"food":"coldrinks",

"medication":"dolo650",

"ammunition":"test"

}

}

],

"nonInfectedSurvivors":[

{

"id":1,

"name":"test",

"age":21,

"gender":"female",

"noTimesinfected":0,

"status":"non\_infected",

"location":{

"latitude":"12.39",

"longitude":"24.34"

},

"inventory":{

"id":2,

"water":"1000",

"food":"coldrinks",

"medication":"dolo650",

"ammunition":"test"

}

},

{

"id":7,

"name":"test",

"age":21,

"gender":"female",

"noTimesinfected":1,

"status":"non\_infected",

"location":{

"latitude":"12.39",

"longitude":"24.34"

},

"inventory":{

"id":8,

"water":"1000",

"food":"coldrinks",

"medication":"dolo650",

"ammunition":"test"

}

}

]

}

**Get robots reports :**

**Url :** http://localhost:8085/api/v1/reports

**Url :** [**http://localhost:8085/api/v1/reports/robots**](http://localhost:8085/api/v1/reports/robots)

**Method type :** get

**Response :**

{

"flyingRobotsCnt":17,

"landRobotsCnt":33,

"flyingRobots":[

{

"model":"0VOFV",

"serialNumber":"6LN366AB36HTFYF",

"manufacturedDate":"2022-03-22T18:23:27.3710919+00:00",

"category":"Flying"

},

……… {

"model":"SNKCE",

"serialNumber":"Z366JVMC3LG73JR",

"manufacturedDate":"2022-03-04T18:23:27.3710743+00:00",

"category":"Flying"

},

{

"model":"TFELC",

"serialNumber":"EJH93D811GFXEX9",

"manufacturedDate":"2022-03-07T18:23:27.3710772+00:00",

"category":"Flying"

}

],

"landRobots":[

{

"model":"0ILB2",

"serialNumber":"PIUV1BCRR6XVXII",

"manufacturedDate":"2022-03-30T18:23:27.3710995+00:00",

"category":"Land"

},

{

"model":"1RHVH",

"serialNumber":"9X6IOQ5CN8UWN3Z",

"manufacturedDate":"2022-03-11T18:23:27.3710811+00:00",

"category":"Land"

},

……….

{

"model":"ZT3NJ",

"serialNumber":"EFN97474BF0K5UP",

"manufacturedDate":"2022-03-29T18:23:27.3710986+00:00",

"category":"Land"

}

]

}