

API SPECIFICATION DOCUMENT

ROBOT APOCALYPSE

INDOMIDAS

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Introduction

The year is 2050 and the world as we know it has been taken over by robots. Created as once friendly robots, have now turned against humankind, their mission is to transform everyone into mindless zombies for their entertainment. A system was developed to meet the following requirements:

A REST API which will store information about the survivors, as well as the resources they own.

This document explains various APIs available on Robot Apocalypse system. The system has been created in Java Spring Boot Framework.

API Specification

Survivors APIs Table

End Point Name	Http Action	End Point
Add Survivor	POST	http://localhost:9090/survivor/save
List All Survivors	GET	http://localhost:9090/survivor/list
Update Survivors location	POST	http://localhost:9090/survivor/location/update
List Infected Survivors	GET	http://localhost:9090/survivor/infected/list
List Uninfected Survivors	GET	http://localhost:9090/survivor/uninfected/list
Survivors Infected Percentage	GET	http://localhost:9090/survivor/infected/percentage
Uninfected Survivors Percentage	GET	http://localhost:9090/survivor/uninfected/percentage
Flag Survivor As Infected	GET	http://localhost:9090/survivor/flag/infected/{id}
Find survivor by id	GET	http://localhost:9090/survivor/find/by/{id}
Delete survivor by id	DELETE	http://localhost:9090/survivor/delete/{id}

Robots APIs Table

End Point Name	Http Action	End Point
List All Robots	GET	http://localhost:9090/robot/list
List All flying robots	GET	http://localhost:9090/robot/flying/list
List Land Robots	GET	http://localhost:9090/robot/land/list

Request and Response Payloads

Add Survivor

Url: <http://localhost:9090/survivor/save>

Http Verb: POST

Request Payload

```
{
  "nationalIdNo": "294451343",
  "name": "Clinton Kamau",
  "gender": "Female",
  "age": 30,
  "infectionStatus": "uninfected",
  "latitude": "-2324343345",
  "longitude": "04930594549",
  "water": "yes",
  "food": "yes",
  "medication": "no",
  "ammunition": "yes"
}
```

Response

```
{
  "status": "ACCEPTED",
  "description": "Survivor saved successfully"
}
```

List All Survivors

URL: <http://localhost:9090/survivor/list>

HTTP Verb: GET

Request Payload

N/A

Response Payload

```
[
  {
    "id": 2,
    "nationalIdNo": "29441343",
    "name": "duncan cheruiyot collins",
    "gender": "male",
    "age": 30,
    "infectionStatus": "Infected",
    "location": {
      "longitude": "04930594549",
      "latitude": "-2324343345"
    },
    "flagedAsInfectedCount": 0,
    "inventory": {
      "water": "yes",
      "food": "yes",
      "medication": "no",
      "ammunition": "yes"
    }
  },
  {
    "id": 4,
    "nationalIdNo": "294451343",
    "name": "Clinton Kamau",
    "gender": "Female",
    "age": 30,
    "infectionStatus": "uninfected",
    "location": {
      "longitude": "04930594549",
      "latitude": "-2324343345"
    },
    "flagedAsInfectedCount": 0,
    "inventory": {
      "water": "yes",
      "food": "yes",
      "medication": "no",
      "ammunition": "yes"
    }
  }
]
```

Update Survivors location

URL: <http://localhost:9090/survivor/location/update>

HTTP VERB: POST

Request Payload

```
{
  "id": "1",
  "longitude": "-43134343",
  "latitude": "43432340"
}
```

Id is the Id of the survivor whose Location is to be updated

Response Payload

```
{
  "status": "ACCEPTED",
  "description": "Location updated Successfully"
}
```

List Infected Survivors

URL: <http://localhost:9090/survivor/infected/list>

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
[
  {
    "id": 2,
    "nationalIdNo": "29441343",
    "name": "duncan cheruiyot collins",
    "gender": "male",
    "age": 30,
    "infectionStatus": "Infected",
    "location": {
      "longitude": "-43134343",
      "latitude": "43432340"
    },
    "flagedAsInfectedCount": 0,
    "inventory": {
      "water": "yes",
      "food": "yes",

```

```
        "medication": "no",
        "ammunition": "yes"
    }
},
{
    "id": 3,
    "nationalIdNo": "29441343",
    "name": "Liam cheruiyot Metet",
    "gender": "Female",
    "age": 8888888,
    "infectionStatus": "infected",
    "location": {
        "longitude": "04930594549",
        "latitude": "-2324343345"
    },
    "flagedAsInfectedCount": 3,
    "inventory": {
        "water": "yes",
        "food": "yes",
        "medication": "no",
        "ammunition": "yes"
    }
}
]
```

List Uninfected Survivors

URL: <http://localhost:9090/survivor/uninfected/list>

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
[
  {
    "id": 4,
    "nationalIdNo": "294451343",
    "name": "Clinton Kamau",
    "gender": "Female",
    "age": 30,
    "infectionStatus": "uninfected",
    "location": {
        "longitude": "04930594549",
        "latitude": "-2324343345"
    },
  },
]
```

```
        "flagedAsInfectedCount": 0,  
        "inventory": {  
            "water": "yes",  
            "food": "yes",  
            "medication": "no",  
            "ammunition": "yes"  
        }  
    }  
}
```

Survivors Infected Percentage

URL: <http://localhost:9090/survivor/infected/percentage>

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
{  
    "status": "ACCEPTED",  
    "description": "Infected Percentage is : 66.66666666666666"  
}
```

Uninfected Survivors Percentage

URL: <http://localhost:9090/survivor/uninfected/percentage>

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
{  
    "status": "ACCEPTED",  
    "description": "Uninfected Percentage is : 33.33333333333333"  
}
```

Flag Survivor as Infected

URL: <http://localhost:9090/survivor/flag/infected/3>

3 is the id of the survivor

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
{  
  "status": "ACCEPTED",  
  "description": "Survivor Flagged Successfully"  
}
```

Find survivor by id

URL: <http://localhost:9090/survivor/find/by/1>

1 is the id of the survivor

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
{  
  "id": 2,  
  "nationalIdNo": "29441343",  
  "name": "duncan cheruiyot collins",  
  "gender": "male",  
  "age": 30,  
  "infectionStatus": "Infected",  
  "location": {  
    "longitude": "-43134343",  
    "latitude": "43432340"  
  },  
  "flagedAsInfectedCount": 0,  
  "inventory": {  
    "water": "yes",  
    "food": "yes",  
    "medication": "no",  
    "ammunition": "yes"  
  }  
}
```

Delete survivor by id

URL: <http://localhost:9090/survivor/delete/1>

1 is the id of the survivor

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
{
  "status": "ACCEPTED",
  "description": "Survivor Deleted Successfully"
}
```

List All Robots

URL: <http://localhost:9090/robot/list>

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
[
  {
    "serialNumber": "2BHN4UI5MD3RBLP",
    "model": "LQHZQ",
    "category": "Land",
    "manufacturedDate": "2022-10-08T06:54:21.6047814+00:00"
  },
  {
    "serialNumber": "3KD494FZONG54G6",
    "model": "LABI3",
    "category": "Land",
    "manufacturedDate": "2022-11-03T06:54:21.60482+00:00"
  },
  {
    "serialNumber": "457UIH9UINUQODT",
    "model": "Q4H42",
    "category": "Land",
    "manufacturedDate": "2022-10-11T06:54:21.6047848+00:00"
  },
  {
    "serialNumber": "59CLAEU6SQ7DKGH",
    "model": "POS0T",
    "category": "Land",
  }
]
```



```
    "manufacturedDate": "2022-09-26T06:54:21.6047549+00:00"
  },
  {
    "serialNumber": "5Y85LMFD3HAF3D3",
    "model": "T0S89",
    "category": "Flying",
    "manufacturedDate": "2022-09-27T06:54:21.6047562+00:00"
  },
  {
    "serialNumber": "6XZU2FHG3QFG0FX",
    "model": "1ASA1",
    "category": "Flying",
    "manufacturedDate": "2022-10-27T06:54:21.6048034+00:00"
  }
]
```

List all flying robots

URL: <http://localhost:9090/robot/flying/list>

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
[
  {
    "serialNumber": "5Y85LMFD3HAF3D3",
    "model": "T0S89",
    "category": "Flying",
    "manufacturedDate": "2022-09-27T06:54:21.6047562+00:00"
  },
  {
    "serialNumber": "6XZU2FHG3QFG0FX",
    "model": "1ASA1",
    "category": "Flying",
    "manufacturedDate": "2022-10-27T06:54:21.6048034+00:00"
  },
  {
    "serialNumber": "BIAMARQGZF2NF06",
    "model": "90TAZ",
    "category": "Flying",
    "manufacturedDate": "2022-09-21T06:54:21.6047374+00:00"
  },
  {
    "serialNumber": "F9AZU6NQT51RAPO",

```

```
    "model": "K4Z7L",
    "category": "Flying",
    "manufacturedDate": "2022-11-08T06:54:21.6048258+00:00"
  }
]
```

List Land Robots

URL: <http://localhost:9090/robot/land/list>

HTTP VERB: GET

Request Payload

N/A

Response Payload

```
[
  {
    "serialNumber": "065PUJW1QRF5GPD",
    "model": "BPZG7",
    "category": "Land",
    "manufacturedDate": "2022-10-10T06:54:21.6047837+00:00"
  },
  {
    "serialNumber": "08GUGMVAAXRFVAA",
    "model": "58R7J",
    "category": "Land",
    "manufacturedDate": "2022-10-14T06:54:21.6047883+00:00"
  },
  {
    "serialNumber": "0F1HY4BZXUZ6U0X",
    "model": "EE0QF",
    "category": "Land",
    "manufacturedDate": "2022-09-28T06:54:21.6047574+00:00"
  }
]
```

The project is available in GitHub: https://github.com/cheruiyotcollins/robots_apocalypse.git