

## Introduction:

Beenbumped is a Java application written as out Final project in the university course Advanced Java.

It is a small web application that let the user store the details of an incident that happened to him as a driver on the road.

The project actually contains two application:

- An Independent Rest API
- A web application client that consumes and demonstrates the Rest API

## Prerequisites:

- A working Java SE 1.7 installation
- A working Apache Tomcat 7 web server installation <http://tomcat.apache.org/download-70.cgi>
- A working MySQL server
- A working Ant installation <http://ant.apache.org/bindownload.cgi>

## Installation:

1) edit the configuration to reflect your mysql and tomcat needs, the configuration is located at src/config.properties file

```
...  
db.user=username  
db.password=password  
db.host=host  
...  
tomcat.dir=tomcat-location-in-the-file-system
```

2) execute ant db to build the database structure and procedures

```
ant db
```

3) execute ant to build the beenbumped.war file:

```
ant
```

beenbumped.war file will be located in the following location:

```
dist/beenbumped.war
```

4) copy beenbumped.war file into your tomcat webapps folder

## General Usage:

for the next examples we will assume that beenbumped is hosted locally in the following uri

`http://localhost/beenbumped`

## Client

navigate using your web browser to the following address:

`http://localhost/beenbumped/client`

## Rest API Reference:

as noted, this is a Rest API, being that way, the communication is done using the HTTP protocol, the following examples will demonstrate the HTTP request and the HTTP response of each action of the API.

### User-Save: [usersave]

#### Headers Parameters:

- Method: POST
- URI Path: /beenbumped/rest/user
- Accept: application/json
- content-type: application/x-www-form-urlencoded; charset=UTF-8

#### Arguments:

- personId (int) [required to edit the user]
- userId (int) [required to edit the user]
- authHash (int) [required to edit the user]
- username (string) [required to create the user]
- password (string) [required to create the user]
- email (string)
- firstName (string)
- lastName (string)
- idNumber (string)
- city (string)
- streetName (string)
- houseNumber (int)
- addressDetails (string)
- zipcode (int)
- phone1 (string)
- phone2 (string)
- insuranceCompany (string)
- insuranceAgentName (string)
- insurancePhone1 (string)
- insurancePhone2 (string)
- insuranceNumber (string)

## New User example:

Request:

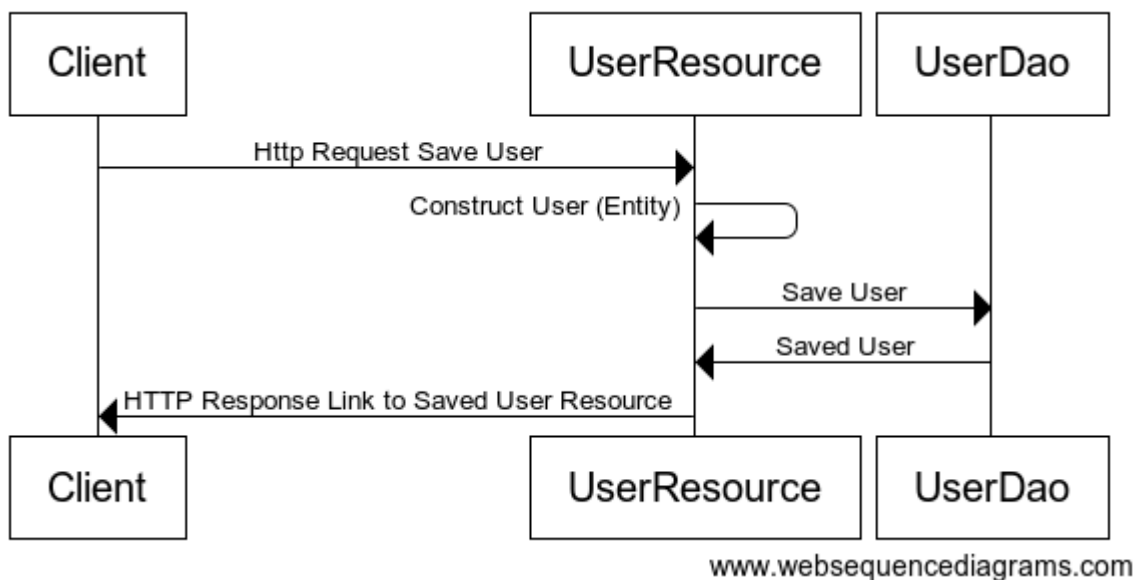
```
POST /beenbumped/rest/user HTTP/1.1
Host: localhost:8080
Accept: application/json
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Content-Length: 389
```

```
username=name%40example.com&email=name%40example.com&password=qwe123&password
Confirm=qwe123&firstName=Marcelo&lastName=Waisman&idNumber=01554305&city=Ramat%20
Gat&streetName=Hachula&houseNumber=16&addressDetails=Appartment%2012&zipcode=52255
&phone1=0508789831&phone2=0505688687&insuranceCompany=icompany&insuranceAgentNam
e=Avishai%20Mizrahi&insurancePhone1=0507330144&insuranceNumber=123123
```

Response: The response after saving the user contains the location to the User resource currently saved

```
HTTP/1.1 302 Moved Temporarily
Location:
http://localhost:8080/beenbumped/rest/user/4?authHash=*DCE2A329760E1C0F6343BEEFC68524B
287F44CB6
Content-Length: 0
```

if we redirect to the Location header received in the last example we will get in response the user object in the response



## User-Get: [userget]

after user creation or after user is already logged in (explained later in user authenticate), a user resource can be retrieved using the following API:

Header Parameters:

- Method: GET
- URI Path /beenbumped/rest/user/[userId]?authHash=[authHash]
- Accept: application/json

#### Arguments (square brackets in the URI Path):

- userId (int) [required]
- authHash (string) [required]

#### Example:

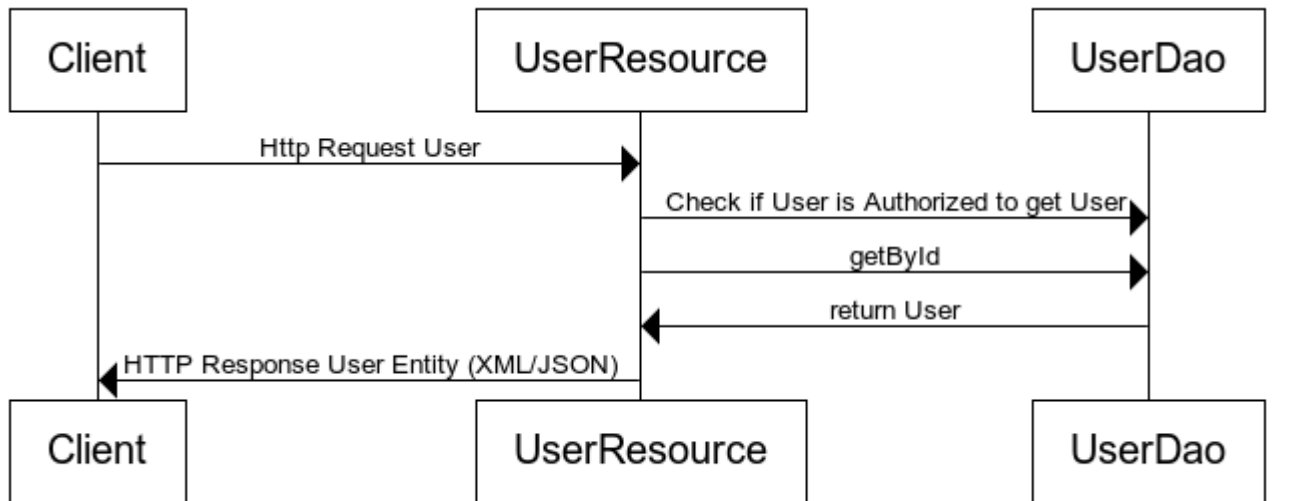
Request:

```
GET /beenbumped/rest/user/4?authHash=*DCE2A329760E1C0F6343BEEFC68524B287F44CB6
HTTP/1.1
Accept: application/json
```

Response:

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{
  "personId":38,
  "email":"name@example.com",
  "firstName":"Marcelo",
  "lastName":"Waisman",
  "idNumber":"01554305",
  "city":"Hachula",
  "streetName":"Ramat Gat",
  "houseNumber":16,
  "addressDetails":"Appartment 12",
  "zipcode":52255,
  "phone1":"0508789831",
  "phone2":"0505688687",
  "insuranceCompany":"icompany",
  "insuranceAgentName":"Avishai Mizrahi",
  "insurancePhone1":"0507330144",
  "insurancePhone2":"",
  "insuranceNumber":"123123",
  "userId":4,
  "username":"name@example.com",
  "authHash":"*DCE2A329760E1C0F6343BEEFC68524B287F44CB6"
}
```



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## User-Authenticate: [userauth]

As noted above, an already existing user can receive the User object resource using the authenticate API.

### Header Parameters:

- Method: GET
- URI Path /beenbumped/rest/user?username=[username]&password=[password]
- Accept: application/json

### Arguments (square brackets in the URI Path):

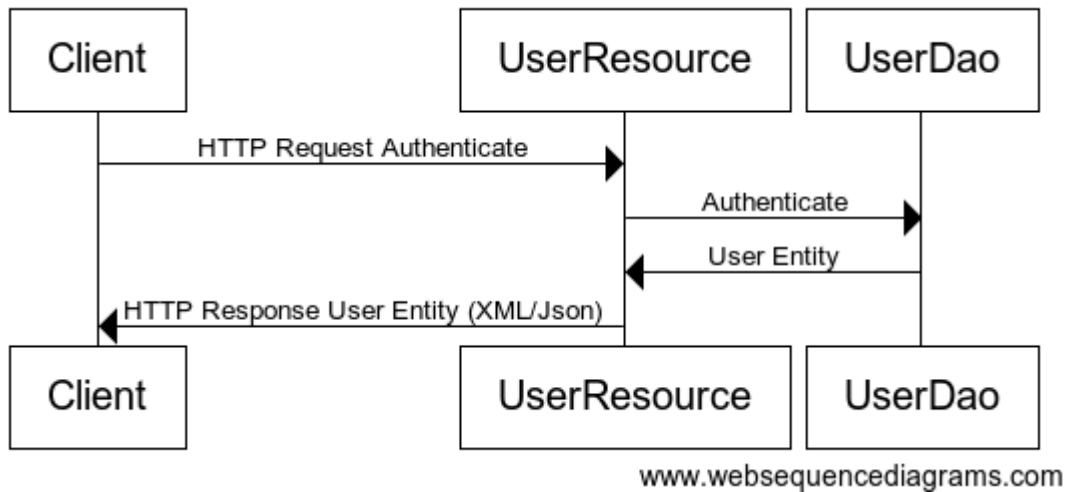
- username(string) [required]
- password(string) [required]

### example:

Request:

```
GET /beenbumped/rest/user?username=name@example.com&password=qwe123 HTTP/1.1
Accept: application/json
```

Response: see [User-Get](#)



## Incident-Save: [incidentsave]

### Header Parameters:

- Method: POST
- URI Path /beenbumped/rest/incident
- Accept: application/json
- content-type: application/x-www-form-urlencoded; charset=UTF-8

### Arguments:

- userId(int) [required]
- authHash(string) [required]
- incidentId(int) [if exist (and greater than 0), edit the existing one]
- date(string) [formatted as yyyy-mm-dd hh:mm]
- notes(string)
- location(string)
- vehicleLicensePlate(string)
- vehicleBrand(string)
- vehicleModel(string)
- driverIdNumber(string)
- driverFirstName(string)
- driverLastName(string)
- driverPhone1(string)
- driverPhone2(string)
- driverInsuranceCompany(string)
- driverInsuranceAgentName(string)
- driverInsurancePhone1(string)
- driverInsurancePhone2(string)
- driverInsuranceNumber(string)
- driverEmail(string)
- ownerIdNumber(string)
- ownerFirstName(string)

- ownerLastName(string)
- ownerPhone1(string)
- ownerPhone2(string)
- ownerInsuranceCompany(string)
- ownerInsuranceAgentName(string)
- ownerInsurancePhone1(string)
- ownerInsurancePhone2(string)
- ownerInsuranceNumber(string)
- ownerEmail(string)

#### example:

Request:

POST /beenbumped/rest/incident HTTP/1.1

Host: localhost:8080

Accept: application/json

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

Content-Length: 812

incidentId=-1&userId=4&authHash=\*DCE2A329760E1C0F6343BEEFC68524B287F44CB6&notes=a%20note&vehicleLicensePlate=123123&vehicleBrand=Toyota%20Corola&vehicleModel=2006&driverFirstName=Jacob&driverLastName=Pines&driverIdNumber=111222333&driverPhone1=049886075&driverPhone2=049980270&driverInsuranceCompany=Migdal&driverInsuranceAgentName=Eran%20Blueshtein&driverInsurancePhone1=0549771333&driverInsurancePhone2=0549771332&driverInsuranceNumber=999888999&driverEmail=eran%40example.com&ownerFirstName=Arnon&ownerLastName=Klineman&ownerIdNumber=555666777&ownerPhone1=0505050500&ownerPhone2=0505050505&ownerInsuranceCompany=OtherIns&ownerInsuranceAgentName=Agent%20Smith&ownerInsurancePhone1=03-5555555&ownerInsurancePhone2=03-9000000&ownerInsuranceNumber=77665544&ownerEmail=smith%40example.com&date=2013-08-17%2012%3A20

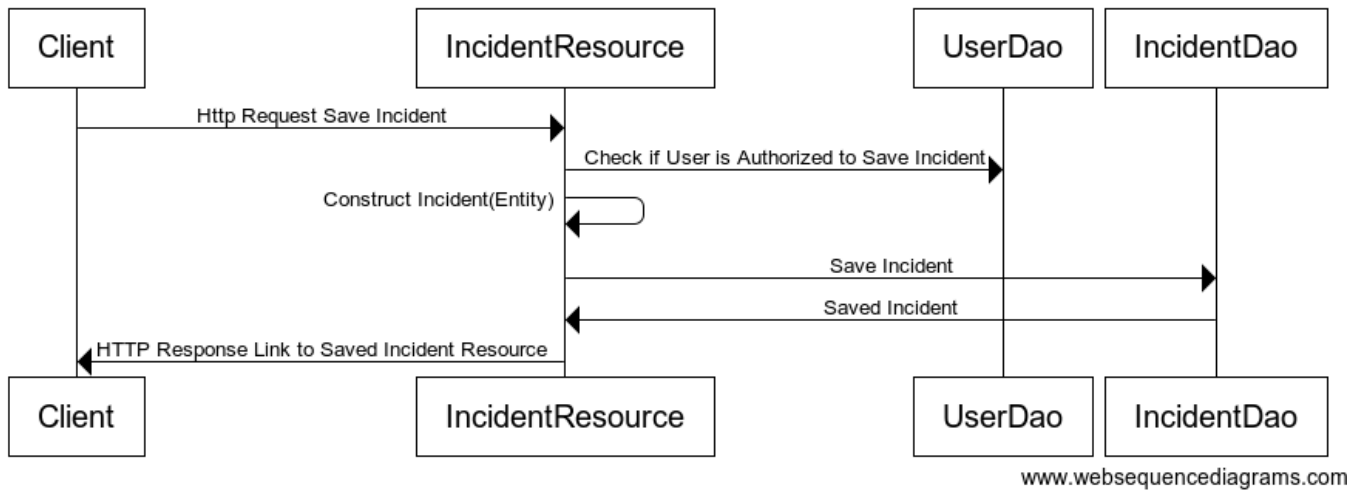
Response:

HTTP/1.1 302 Moved Temporarily

Location:

http://localhost:8080/beenbumped/rest/incident/19?userId=4&authHash=\*DCE2A329760E1C0F6343BEEFC68524B287F44CB6

Content-Length: 0



## Incident-Get: [incidentget]

To get an existing incident a GET request can be made in the following format

### Header Parameters:

- Method: GET
- URI Path  
http://localhost:8080/beenbumped/rest/incident/[incidentId]?userId=[userId]&authHash=[authHash]
- Accept: application/json

### Arguments (square brackets in the URI Path):

- incidentId(int) [required]
- userId(int) [required]
- authHash(int) [required]

### example:

Request:

```
GET
/beenbumped/rest/incident/19?userId=4&authHash=*DCE2A329760E1C0F6343BEEFC68524B287F44CB6 HTTP/1.1
Accept: application/json
```

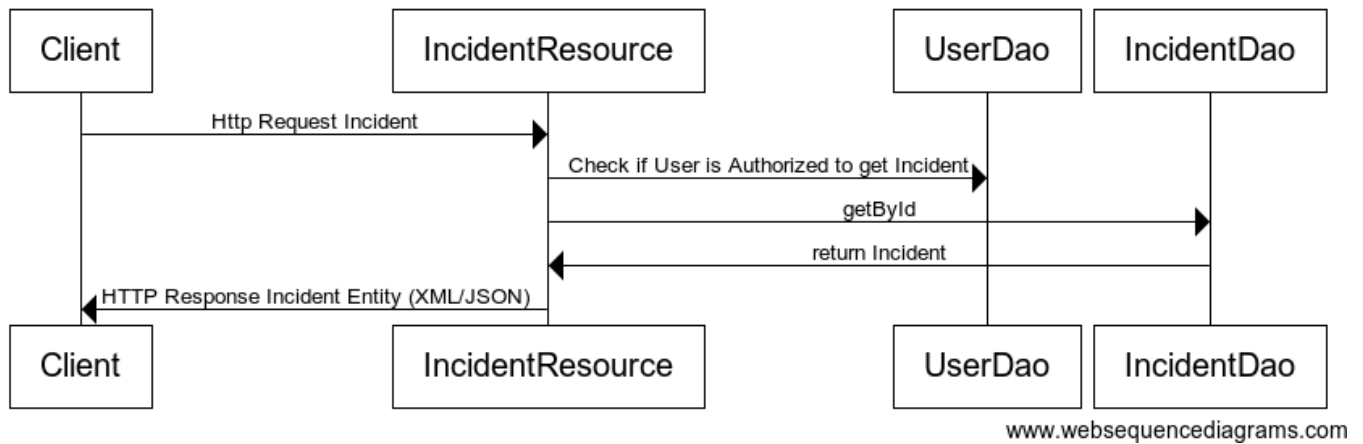
Response:

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{
  "incidentId":19,
  "userId":4,
  "notes":null,
  "location":null,
```



```
"vehicleLicensePlate":"123123",
"vehicleBrand":"Toyota Corola",
"vehicleModel":"2006",
"driver":{"personId":39,
"email":"eran@example.com",
"firstName":"Jacob",
"lastName":"Pines",
"idNumber":"111222333",
"city":null,
"streetName":null,
"houseNumber":-1,
"addressDetails":null,
"zipcode":-1,
"phone1":"049886075",
"phone2":"049980270",
"insuranceCompany":"Migdal",
"insuranceAgentName":"Eran Blueshtein",
"insurancePhone1":"0549771333",
"insurancePhone2":"0549771332",
"insuranceNumber":"999888999"},
"owner":{"personId":40,
"email":"smith@example.com",
"firstName":"Arnon",
"lastName":"Klineman",
"idNumber":"555666777",
"city":null,
"streetName":null,
"houseNumber":-1,
"addressDetails":null,
"zipcode":-1,
"phone1":"0505050500",
"phone2":"0505050505",
"insuranceCompany":"OtherIns",
"insuranceAgentName":"Agent Smith",
"insurancePhone1":"03-5555555",
"insurancePhone2":"03-9000000",
"insuranceNumber":"77665544"},
"date":"2013-08-17 12:20"
}
```



## Incident-History: [incidenthistory]

an authenticated user can retrieve his existing incidents list with the following API

### Header Parameters:

- Method: GET
- URI Path /beenbumped/rest/incident/history?userId=[userId]&authHash=[authHash]
- Accept: application/json

### Arguments (square brackets in the URI Path):

- userId(int) [required]
- authHash(string) [required]
- linesInPage (int) [optional limit the number of incident results to that number]
- page (int) [optional if linesInPage is set page will retrieve {linesInPage} results starting from {linesInPage}\*{page}]

### example:

Request:

GET

/beenbumped/rest/incident/history?authHash=\*DCE2A329760E1C0F6343BEEFC68524B287F44CB6  
&userId=4 HTTP/1.1

Accept: application/json

Response:

HTTP/1.1 200 OK

Content-Type: application/json

```

{
  incidents:[ /* an array of incident(s) same structure as in Incident-Get */ ],
  "totalLines":10 //total incidents
}
  
```

