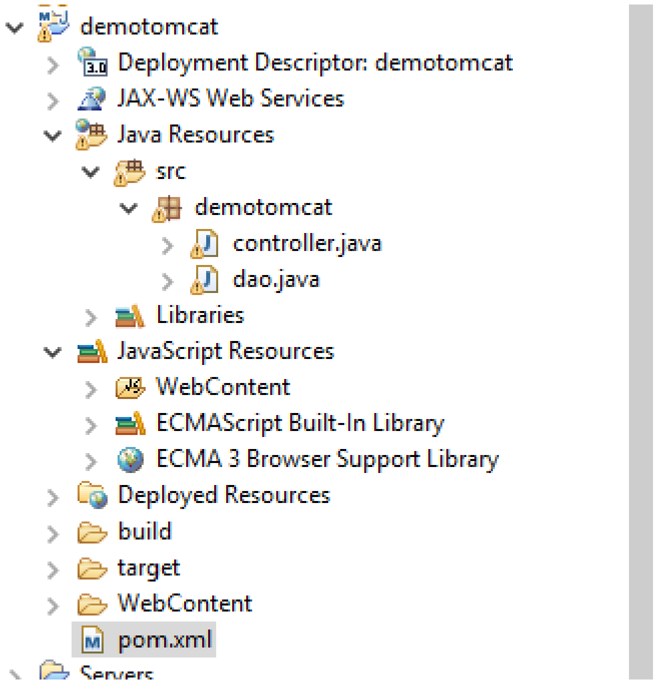
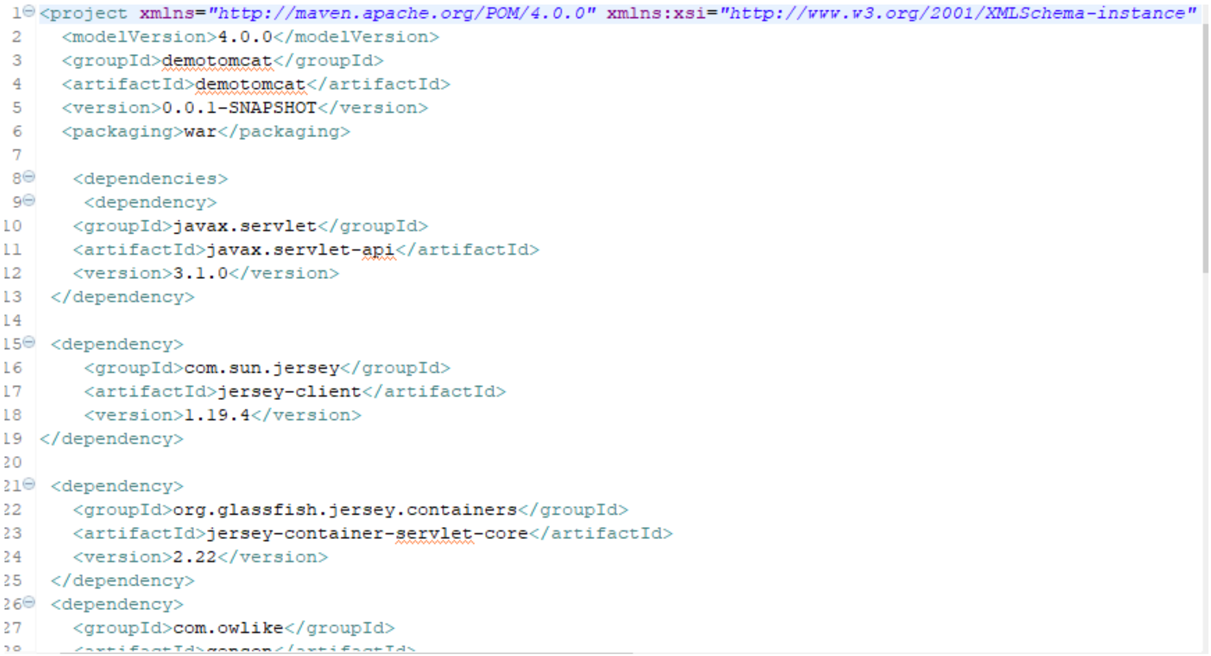
The Project Structure



```
demotomcat
  Deployment Descriptor: demotomcat
  JAX-WS Web Services
  Java Resources
    src
      demotomcat
        controller.java
        dao.java
    Libraries
  JavaScript Resources
    WebContent
    ECMAScript Built-In Library
    ECMA 3 Browser Support Library
  Deployed Resources
  build
  target
  WebContent
  pom.xml
Servers
```

Maven Dependencies

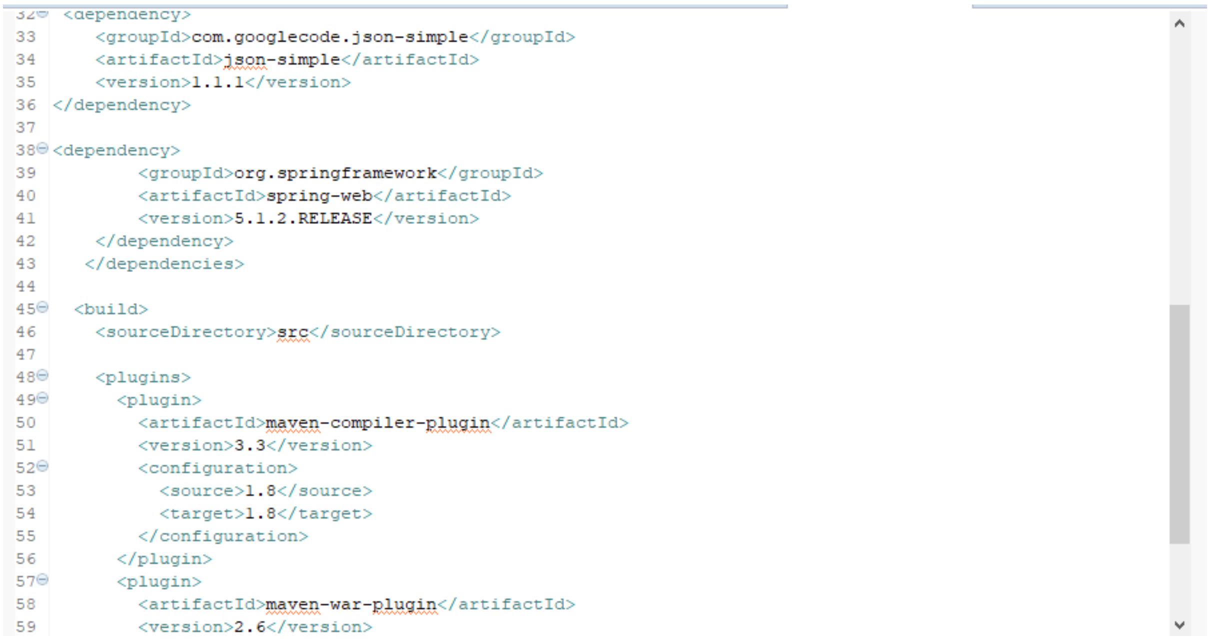


```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  <modelVersion>4.0.0</modelVersion>
  <groupId>demotomcat</groupId>
  <artifactId>demotomcat</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>war</packaging>

   <dependencies>
    <dependency>
   <groupId>javax.servlet</groupId>
   <artifactId>javax.servlet-api</artifactId>
   <version>3.1.0</version>
 </dependency>

 <dependency>
    <groupId>com.sun.jersey</groupId>
    <artifactId>jersey-client</artifactId>
    <version>1.19.4</version>
</dependency>

 <dependency>
   <groupId>org.glassfish.jersey.containers</groupId>
   <artifactId>jersey-container-servlet-core</artifactId>
   <version>2.22</version>
 </dependency>
 <dependency>
   <groupId>com.owlike</groupId>
  <artifactId>genson</artifactId>
```



```
<dependency>
    <groupId>com.googlecode.json-simple</groupId>
    <artifactId>json-simple</artifactId>
    <version>1.1.1</version>
</dependency>

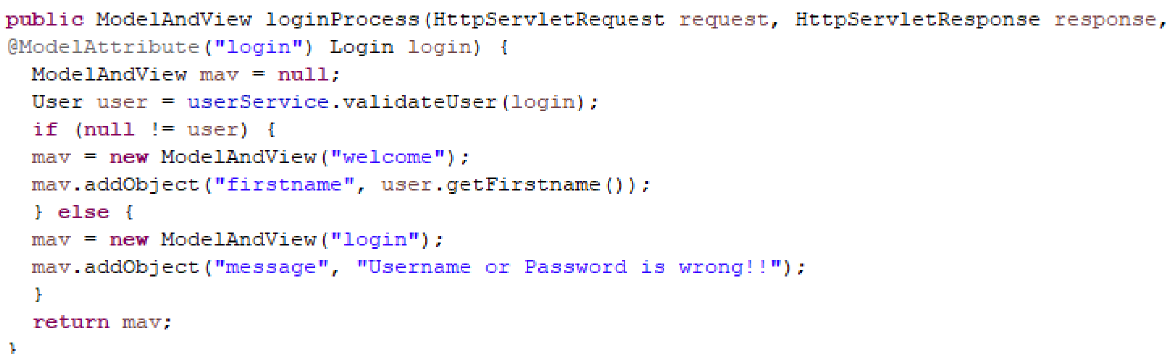
<dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-web</artifactId>
        <version>5.1.2.RELEASE</version>
    </dependency>
   </dependencies>

  <build>
    <sourceDirectory>src</sourceDirectory>

    <plugins>
      <plugin>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.3</version>
        <configuration>
          <source>1.8</source>
          <target>1.8</target>
        </configuration>
      </plugin>
      <plugin>
        <artifactId>maven-war-plugin</artifactId>
        <version>2.6</version>
```

Adding the required maven dependencies

1.Login by user



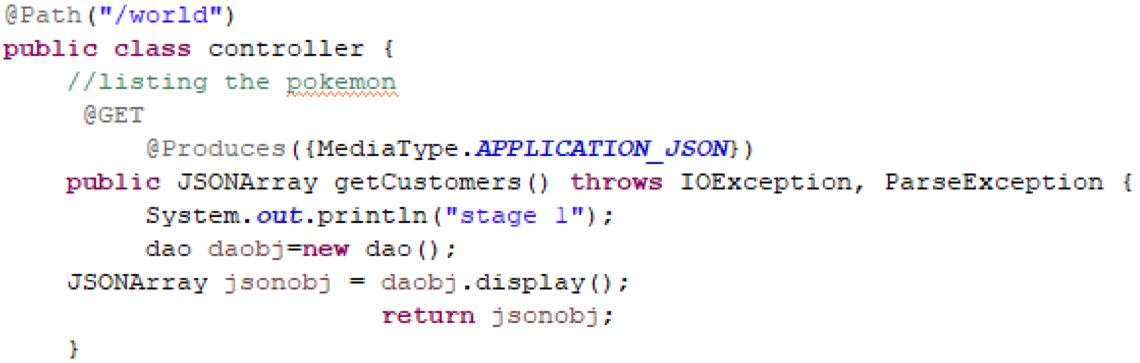
```
public ModelAndView loginProcess(HttpServletRequest request, HttpServletResponse response,
@ModelAttribute("login") Login login) {
  ModelAndView mav = null;
  User user = userService.validateUser(login);
  if (null != user) {
  mav = new ModelAndView("welcome");
  mav.addObject("firstname", user.getFirstname());
  } else {
  mav = new ModelAndView("login");
  mav.addObject("message", "Username or Password is wrong!!");
  }
  return mav;
}
```

Getting the username and pass word and validating them.

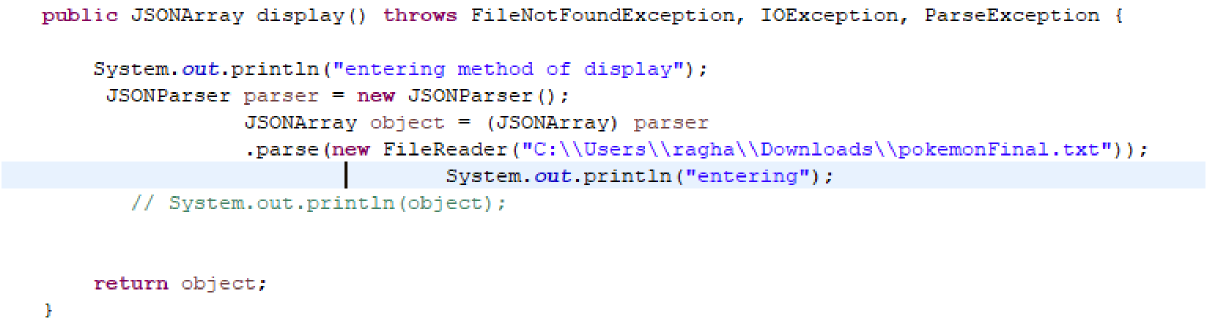
2.Display the list of pokemon

Created controller class,to get connection between UI and DAO.

This would fetch the pokemon list from pokemonFinal.json file



```
@Path("/world")
public class controller {
    //listing the pokemon
     @GET
         @Produces({MediaType.APPLICATION_JSON})
    public JSONArray getCustomers() throws IOException, ParseException {
         System.out.println("stage 1");
         dao daobj=new dao();
    JSONArray jsonobj = daobj.display();
                        return jsonobj;
    }
```



```
public JSONArray display() throws FileNotFoundException, IOException, ParseException {

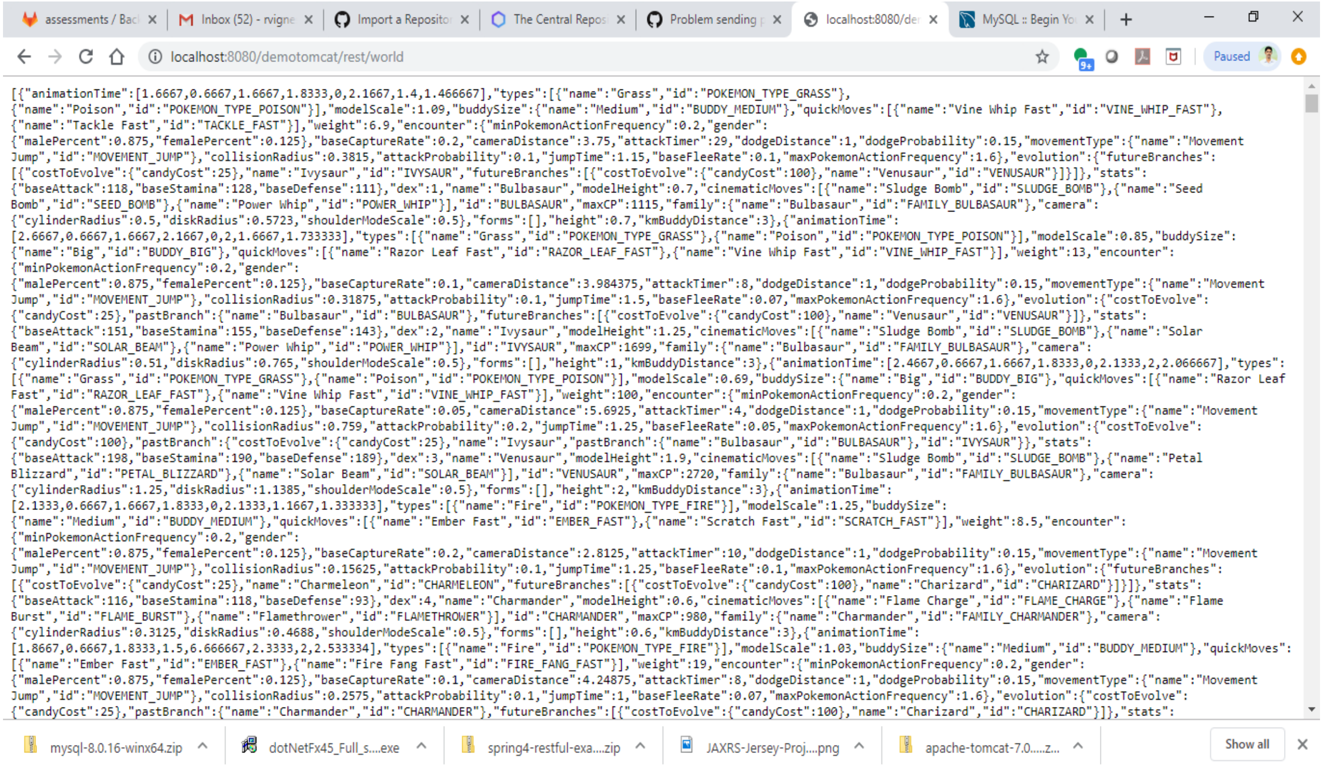
    System.out.println("entering method of display");
     JSONParser parser = new JSONParser();
               JSONArray object = (JSONArray) parser
               .parse(new FileReader("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt"));
                           System.out.println("entering");
      // System.out.println(object);


    return object;
}
```

Once the json file is read ,we can access the webservice using tomcat to view the output.

OUTPUT

URL: http://localhost:8080/demotomcat/rest/world



```
[{"animationTime":[1.6667,0.6667,1.6667,1.8333,0,2.1667,1.4,1.466667],"types":[{"name":"Grass","id":"POKEMON_TYPE_GRASS"},
{"name":"Poison","id":"POKEMON_TYPE_POISON"}],"modelScale":1.09,"buddySize":{"name":"Medium","id":"BUDDY_MEDIUM"},"quickMoves":[{"name":"Vine Whip Fast","id":"VINE_WHIP_FAST"},
{"name":"Tackle Fast","id":"TACKLE_FAST"}],"weight":6.9,"encounter":{"minPokemonActionFrequency":0.2,"gender":
{"malePercent":0.875,"femalePercent":0.125},"baseCaptureRate":0.2,"cameraDistance":3.75,"attackTimer":29,"dodgeDistance":1,"dodgeProbability":0.15,"movementType":{"name":"Movement
Jump","id":"MOVEMENT_JUMP"},"collisionRadius":0.3815,"attackProbability":0.1,"jumpTime":1.15,"baseFleeRate":0.1,"maxPokemonActionFrequency":1.6},"evolution":{"futureBranches":
[{"costToEvolve":{"candyCost":25},"name":"Ivysaur","id":"IVYSAUR","futureBranches":[{"costToEvolve":{"candyCost":100},"name":"Venusaur","id":"VENUSAUR"}]}]},"stats":
{"baseAttack":118,"baseStamina":128,"baseDefense":111},"dex":1,"name":"Bulbasaur","modelHeight":0.7,"cinematicMoves":[{"name":"Sludge Bomb","id":"SLUDGE_BOMB"},{"name":"Seed
Bomb","id":"SEED_BOMB"},{"name":"Power Whip","id":"POWER_WHIP"}],"id":"BULBASAUR","maxCP":1115,"family":{"name":"Bulbasaur","id":"FAMILY_BULBASAUR"},"camera":
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Beam","id":"SOLAR_BEAM"},{"name":"Power Whip","id":"POWER_WHIP"}],"id":"IVYSAUR","maxCP":1699,"family":{"name":"Bulbasaur","id":"FAMILY_BULBASAUR"},"camera":
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Fast","id":"RAZOR_LEAF_FAST"},{"name":"Vine Whip Fast","id":"VINE_WHIP_FAST"}],"weight":100,"encounter":{"minPokemonActionFrequency":0.2,"gender":
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Blizzard","id":"PETAL_BLIZZARD"},{"name":"Solar Beam","id":"SOLAR_BEAM"}],"id":"VENUSAUR","maxCP":2720,"family":{"name":"Bulbasaur","id":"FAMILY_BULBASAUR"},"camera":
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{"baseAttack":116,"baseStamina":118,"baseDefense":93},"dex":4,"name":"Charmander","modelHeight":0.6,"cinematicMoves":[{"name":"Flame Charge","id":"FLAME_CHARGE"},{"name":"Flame
Burst","id":"FLAME_BURST"},{"name":"Flamethrower","id":"FLAMETHROWER"}],"id":"CHARMANDER","maxCP":980,"family":{"name":"Charmander","id":"FAMILY_CHARMANDER"},"camera":
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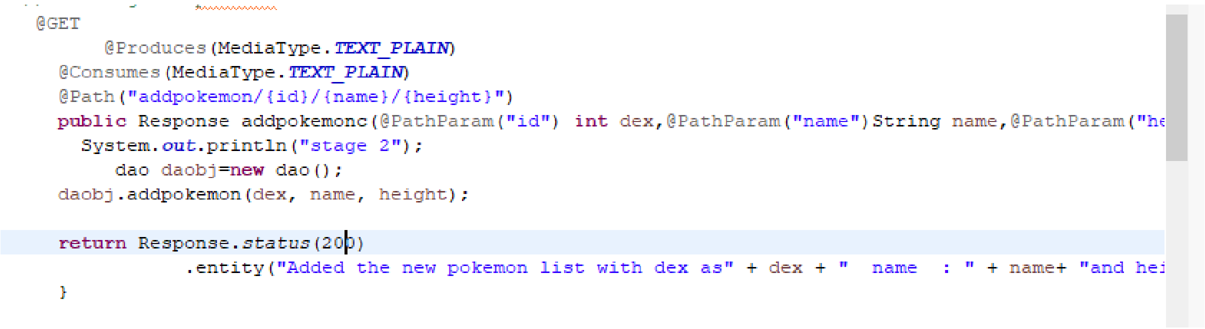
[{"name":"Ember Fast","id":"EMBER_FAST"},{"name":"Fire Fang Fast","id":"FIRE_FANG_FAST"}],"weight":19,"encounter":{"minPokemonActionFrequency":0.2,"gender":
{"malePercent":0.875,"femalePercent":0.125},"baseCaptureRate":0.1,"cameraDistance":4.24875,"attackTimer":8,"dodgeDistance":1,"dodgeProbability":0.15,"movementType":{"name":"Movement
Jump","id":"MOVEMENT_JUMP"},"collisionRadius":0.2575,"attackProbability":0.1,"jumpTime":1,"baseFleeRate":0.07,"maxPokemonActionFrequency":1.6},"evolution":{"costToEvolve":
{"candyCost":25},"pastBranch":{"name":"Charmander","id":"CHARMANDER"},"futureBranches":[{"costToEvolve":{"candyCost":100},"name":"Charizard","id":"CHARIZARD"}]},"stats":
```

Displaying the list of pokemon.

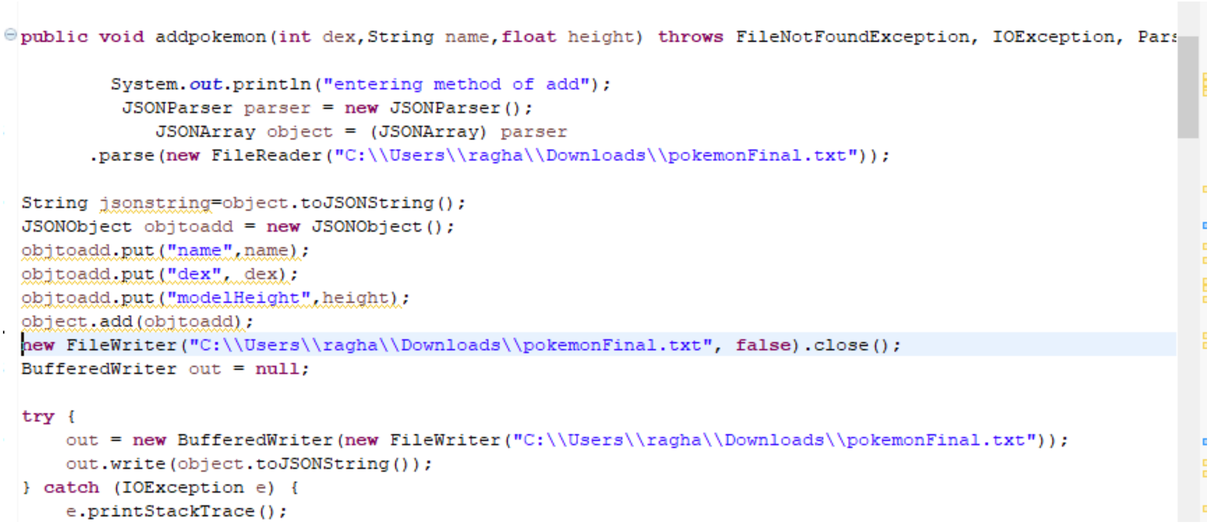
3.Adding pokemon list



```
 @GET
      @Produces(MediaType.TEXT_PLAIN)
   @Consumes(MediaType.TEXT_PLAIN)
   @Path("addpokemon/{id}/{name}/{height}")
   public Response addpokemonc(@PathParam("id") int dex,@PathParam("name")String name,@PathParam("he
     System.out.println("stage 2");
        dao daobj=new dao();
   daobj.addpokemon(dex, name, height);

   return Response.status(200)
              .entity("Added the new pokemon list with dex as" + dex + "  name  : " + name+ "and hei
   }
```

Controller to add pokemon list

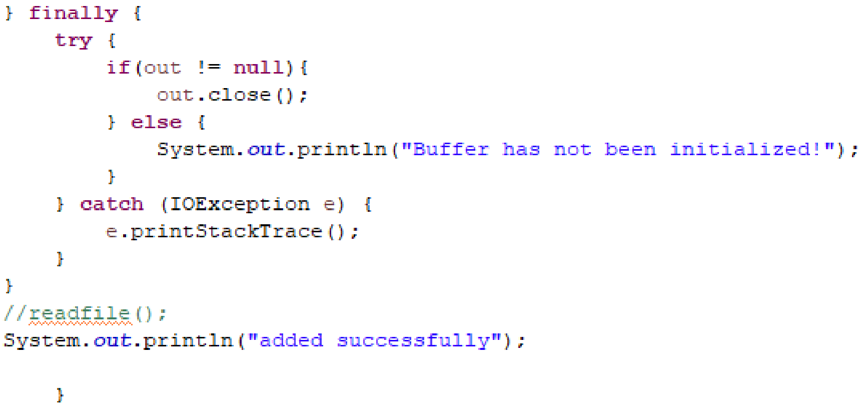


```
public void addpokemon(int dex,String name,float height) throws FileNotFoundException, IOException, Pars

         System.out.println("entering method of add");
          JSONParser parser = new JSONParser();
             JSONArray object = (JSONArray) parser
       .parse(new FileReader("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt"));

String jsonstring=object.toJSONString();
JSONObject objtoadd = new JSONObject();
objtoadd.put("name",name);
objtoadd.put("dex", dex);
objtoadd.put("modelHeight",height);
object.add(objtoadd);
new FileWriter("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt", false).close();
BufferedWriter out = null;

try {
    out = new BufferedWriter(new FileWriter("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt"));
    out.write(object.toJSONString());
} catch (IOException e) {
    e.printStackTrace();
```



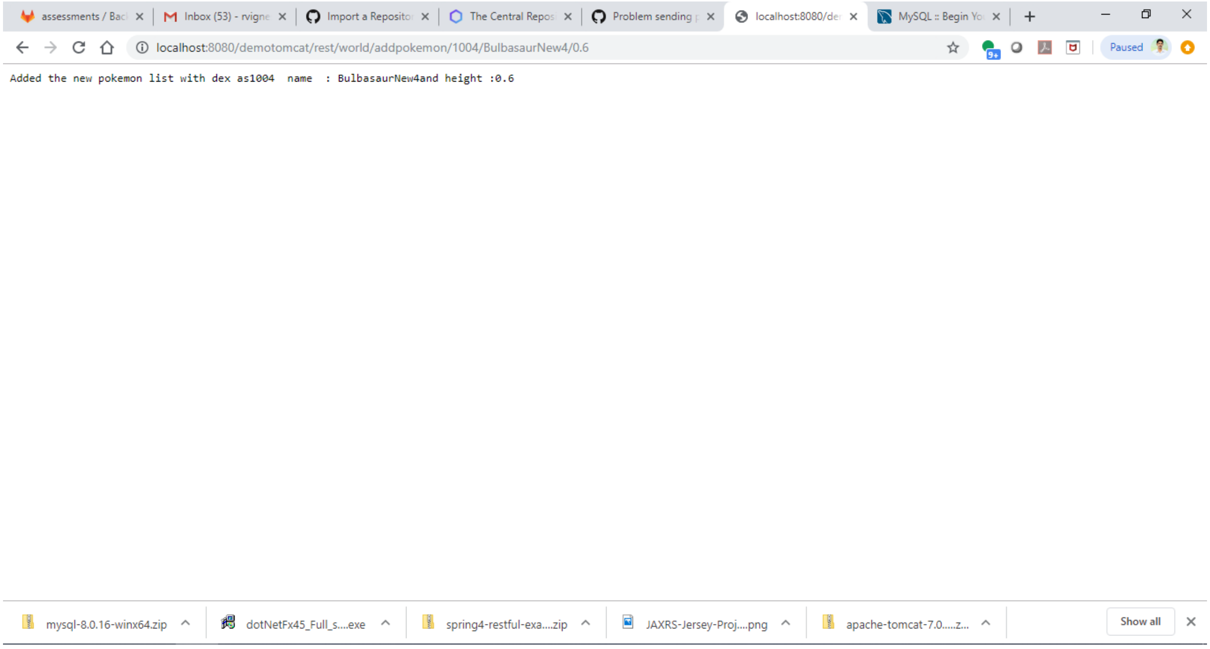
```
} finally {
    try {
        if(out != null){
            out.close();
        } else {
            System.out.println("Buffer has not been initialized!");
        }
    } catch (IOException e) {
        e.printStackTrace();
    }
}
//readfile();
System.out.println("added successfully");

    }
```

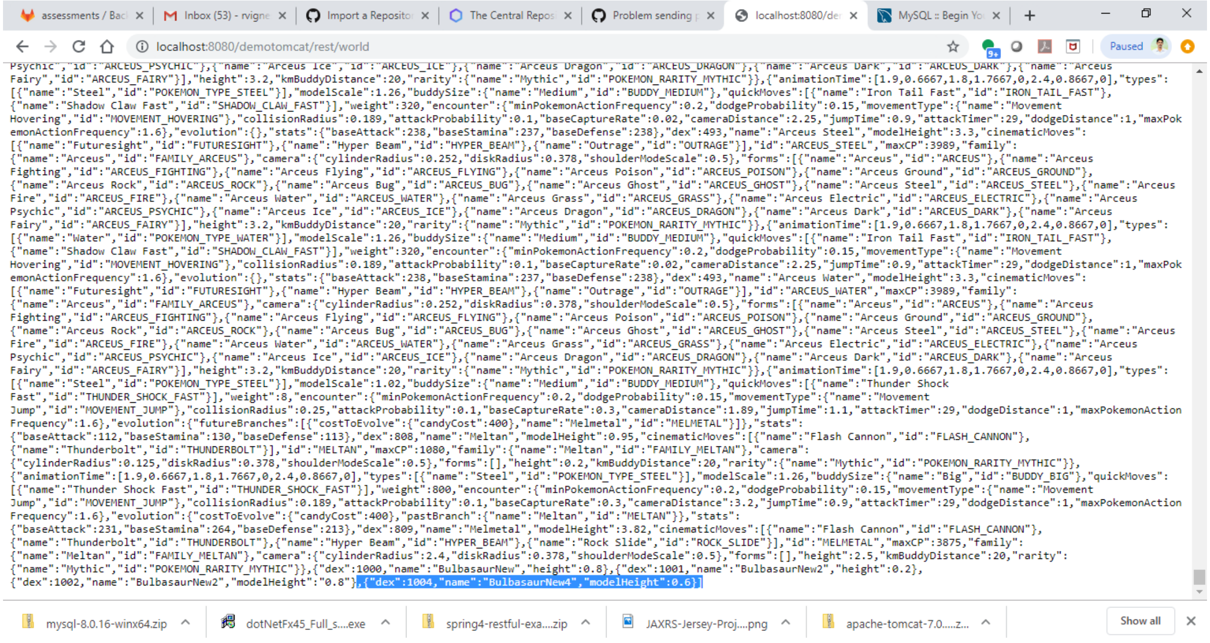
Dao to add pokemon list

OUTPUT

URL: http://localhost:8080/demotomcat/rest/world/addpokemon/1000/BulbasaurNew/0.8



```
Added the new pokemon list with dex as1004  name  : BulbasaurNew4and height :0.6
```



```
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
Fairy","id":"ARCEUS_FAIRY"}],"height":3.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":
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Fighting","id":"ARCEUS_FIGHTING"},{"name":"Arceus Flying","id":"ARCEUS_FLYING"},{"name":"Arceus Poison","id":"ARCEUS_POISON"},{"name":"Arceus Ground","id":"ARCEUS_GROUND"},
{"name":"Arceus Rock","id":"ARCEUS_ROCK"},{"name":"Arceus Bug","id":"ARCEUS_BUG"},{"name":"Arceus Ghost","id":"ARCEUS_GHOST"},{"name":"Arceus Steel","id":"ARCEUS_STEEL"},{"name":"Arceus
Fire","id":"ARCEUS_FIRE"},{"name":"Arceus Water","id":"ARCEUS_WATER"},{"name":"Arceus Grass","id":"ARCEUS_GRASS"},{"name":"Arceus Electric","id":"ARCEUS_ELECTRIC"},{"name":"Arceus
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
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{"name":"Shadow Claw Fast","id":"SHADOW_CLAW_FAST"}],"weight":320,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Hovering","id":"MOVEMENT_HOVERING"},"collisionRadius":0.189,"attackProbability":0.1,"baseCaptureRate":0.02,"cameraDistance":2.25,"jumpTime":0.9,"attackTimer":29,"dodgeDistance":1,"maxPok
emonActionFrequency":1.6},"evolution":{},"stats":{"baseAttack":238,"baseStamina":237,"baseDefense":238},"dex":493,"name":"Arceus Water","modelHeight":3.3,"cinematicMoves":
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Fighting","id":"ARCEUS_FIGHTING"},{"name":"Arceus Flying","id":"ARCEUS_FLYING"},{"name":"Arceus Poison","id":"ARCEUS_POISON"},{"name":"Arceus Ground","id":"ARCEUS_GROUND"},
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Fast","id":"THUNDER_SHOCK_FAST"}],"weight":8,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Jump","id":"MOVEMENT_JUMP"},"collisionRadius":0.25,"attackProbability":0.1,"baseCaptureRate":0.3,"cameraDistance":1.89,"jumpTime":1.1,"attackTimer":29,"dodgeDistance":1,"maxPokemonAction
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{"name":"Thunderbolt","id":"THUNDERBOLT"}],"id":"MELTAN","maxCP":1080,"family":{"name":"Meltan","id":"FAMILY_MELTAN"},"camera":
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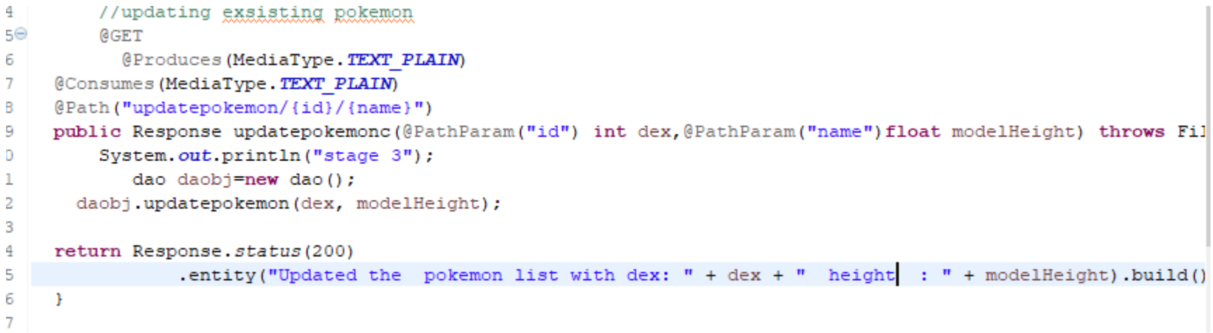
Frequency":1.6},"evolution":{"costToEvolve":{"candyCost":400},"pastBranch":{"name":"Meltan","id":"MELTAN"}},"stats":
{"baseAttack":231,"baseStamina":264,"baseDefense":213},"dex":809,"name":"Melmetal","modelHeight":3.82,"cinematicMoves":[{"name":"Flash Cannon","id":"FLASH_CANNON"},
{"name":"Thunderbolt","id":"THUNDERBOLT"},{"name":"Hyper Beam","id":"HYPER_BEAM"},{"name":"Rock Slide","id":"ROCK_SLIDE"}],"id":"MELMETAL","maxCP":3875,"family":
{"name":"Meltan","id":"FAMILY_MELTAN"},"camera":{"cylinderRadius":2.4,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[],"height":2.5,"kmBuddyDistance":20,"rarity":
{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"dex":1000,"name":"BulbasaurNew","height":0.8},{"dex":1001,"name":"BulbasaurNew2","height":0.2},
{"dex":1002,"name":"BulbasaurNew2","modelHeight":"0.8"},{"dex":1004,"name":"BulbasaurNew4","modelHeight":0.6}]
```

Added the new pokemon list, the highlighted one.

4.update the existing pokemon list

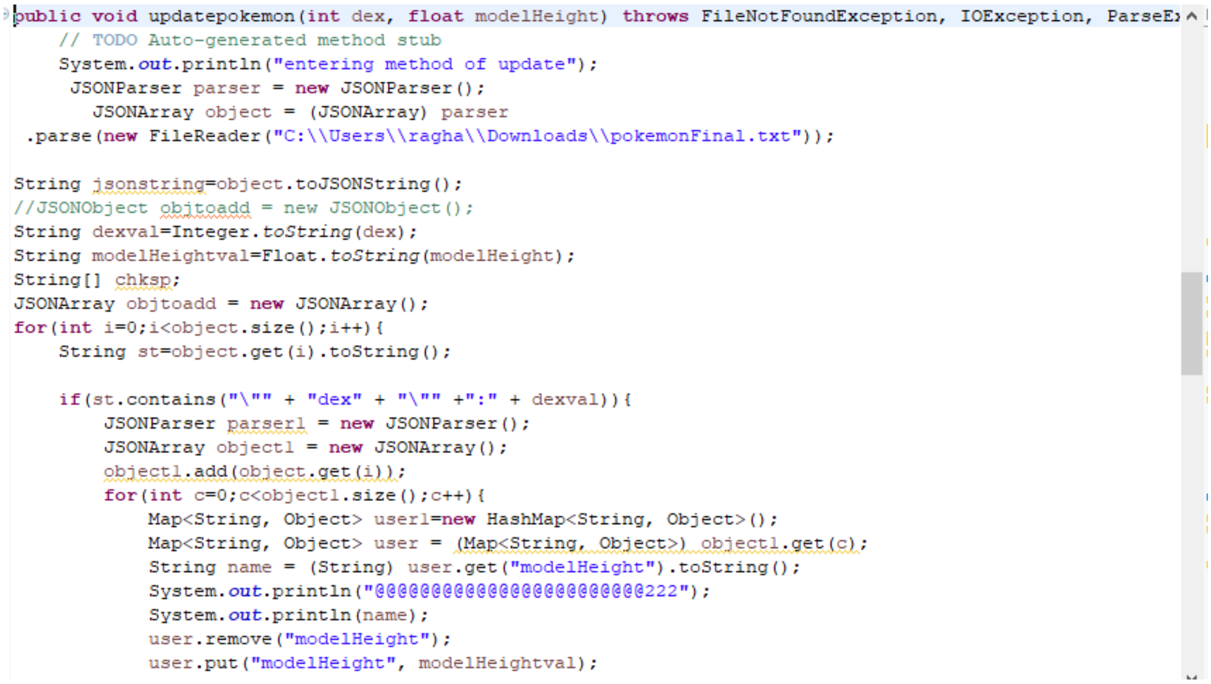


```
      //updating exsisting pokemon
      @GET
        @Produces(MediaType.TEXT_PLAIN)
  @Consumes(MediaType.TEXT_PLAIN)
  @Path("updatepokemon/{id}/{name}")
  public Response updatepokemonc(@PathParam("id") int dex,@PathParam("name")float modelHeight) throws Fil
      System.out.println("stage 3");
         dao daobj=new dao();
    daobj.updatepokemon(dex, modelHeight);

  return Response.status(200)
              .entity("Updated the  pokemon list with dex: " + dex + "  height  : " + modelHeight).build()
  }

```

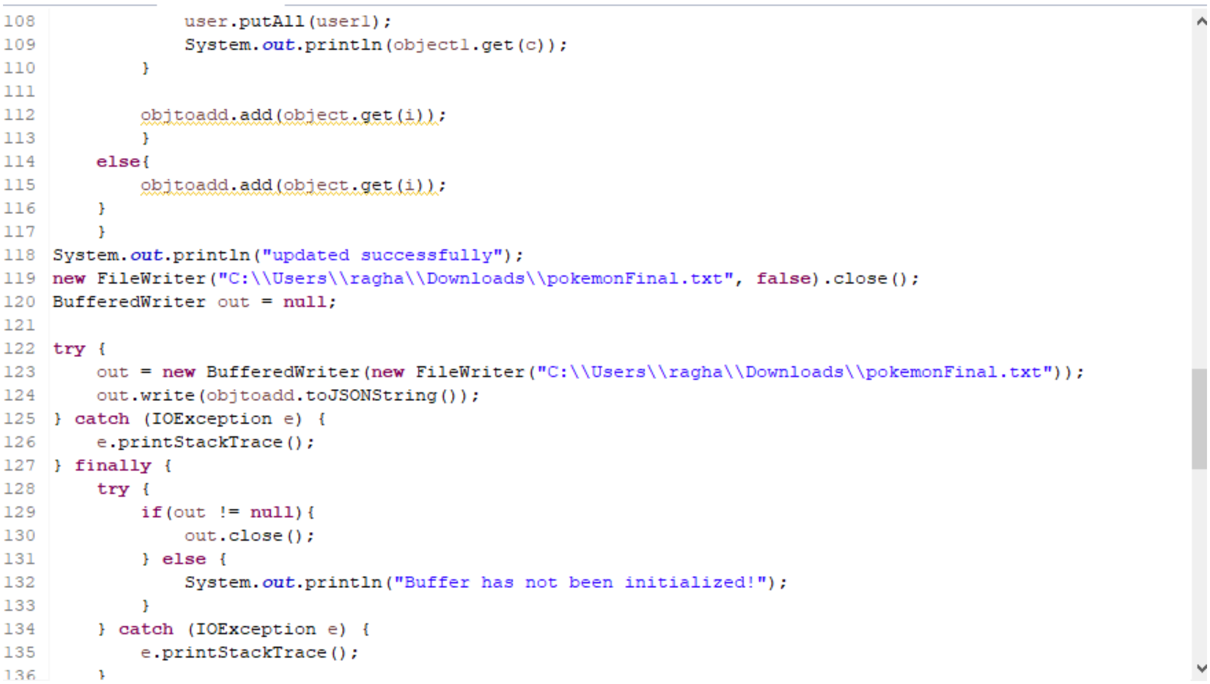
Controller to update the existing pokemon list



```
public void updatepokemon(int dex, float modelHeight) throws FileNotFoundException, IOException, ParseE
    // TODO Auto-generated method stub
    System.out.println("entering method of update");
     JSONParser parser = new JSONParser();
       JSONArray object = (JSONArray) parser
 .parse(new FileReader("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt"));

String jsonstring=object.toJSONString();
//JSONObject objtoadd = new JSONObject();
String dexval=Integer.toString(dex);
String modelHeightval=Float.toString(modelHeight);
String[] chksp;
JSONArray objtoadd = new JSONArray();
for(int i=0;i<object.size();i++){
    String st=object.get(i).toString();

    if(st.contains("\"" + "dex" + "\"" +":" + dexval)){
        JSONParser parser1 = new JSONParser();
        JSONArray object1 = new JSONArray();
        object1.add(object.get(i));
        for(int c=0;c<object1.size();c++){
            Map<String, Object> user1=new HashMap<String, Object>();
            Map<String, Object> user = (Map<String, Object>) object1.get(c);
            String name = (String) user.get("modelHeight").toString();
            System.out.println("@@@@@@@@@@@@@@@@@@@@@@@@@222");
            System.out.println(name);
            user.remove("modelHeight");
            user.put("modelHeight", modelHeightval);
```



```
            user.putAll(user1);
            System.out.println(object1.get(c));
        }

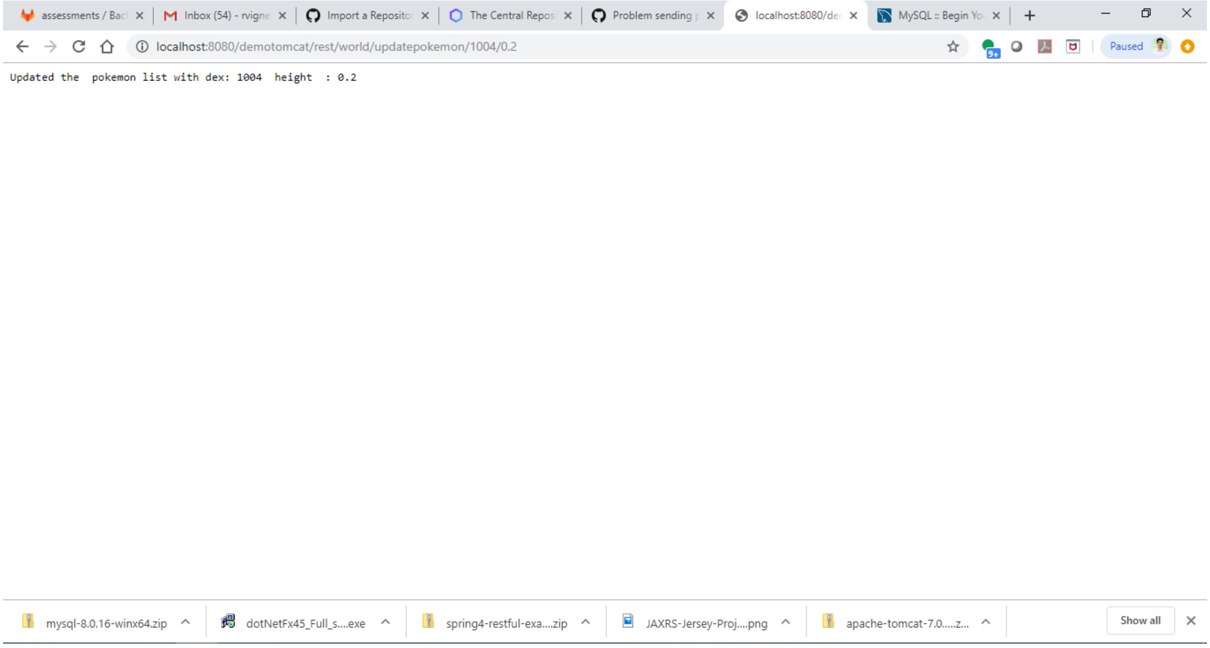
        objtoadd.add(object.get(i));
        }
    else{
        objtoadd.add(object.get(i));
    }
    }
System.out.println("updated successfully");
new FileWriter("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt", false).close();
BufferedWriter out = null;

try {
    out = new BufferedWriter(new FileWriter("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt"));
    out.write(objtoadd.toJSONString());
} catch (IOException e) {
    e.printStackTrace();
} finally {
    try {
        if(out != null){
            out.close();
        } else {
            System.out.println("Buffer has not been initialized!");
        }
    } catch (IOException e) {
        e.printStackTrace();
    }
```

Dao to update the pokemon list

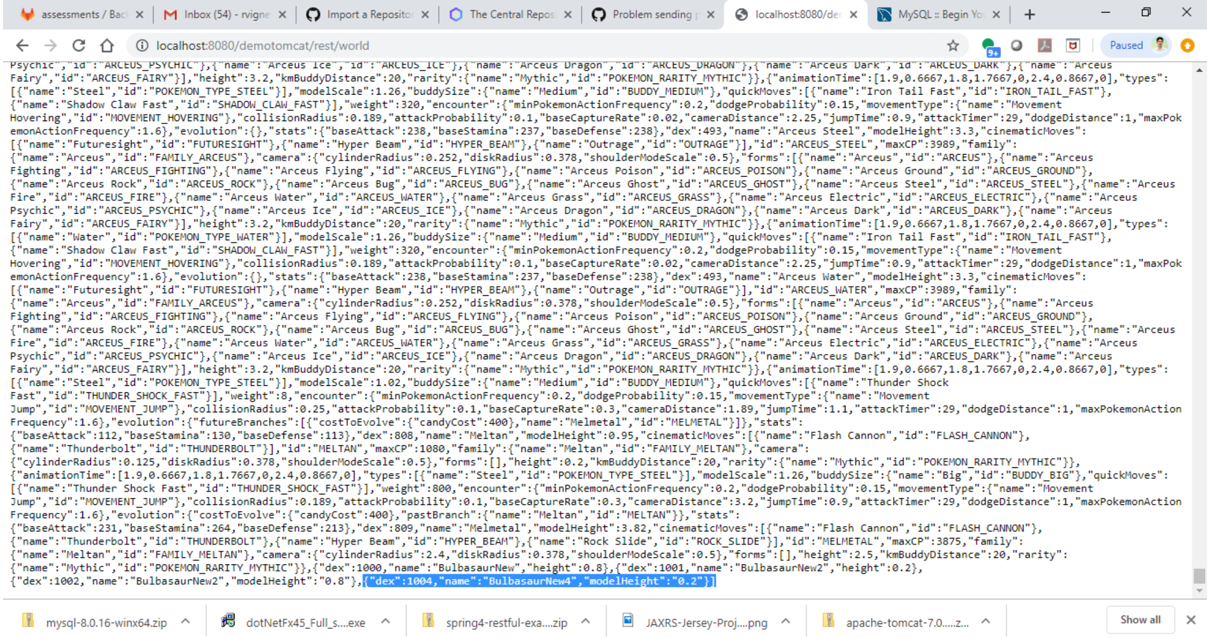
OUTPUT

URL: http://localhost:8080/demotomcat/rest/world/updatepokemon/1002/0.8



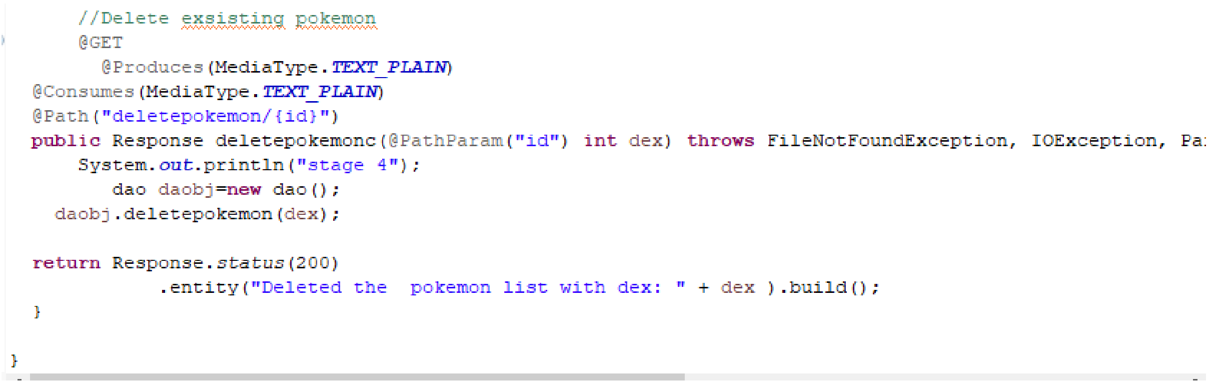
localhost:8080/demotomcat/rest/world/updatepokemon/1004/0.2

```
Updated the  pokemon list with dex: 1004  height  : 0.2
```



```
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
Fairy","id":"ARCEUS_FAIRY"}],"height":3.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":
[{"name":"Steel","id":"POKEMON_TYPE_STEEL"}],"modelScale":1.26,"buddySize":{"name":"Medium","id":"BUDDY_MEDIUM"},"quickMoves":[{"name":"Iron Tail Fast","id":"IRON_TAIL_FAST"},
{"name":"Shadow Claw Fast","id":"SHADOW_CLAW_FAST"}],"weight":320,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Hovering","id":"MOVEMENT_HOVERING"},"collisionRadius":0.189,"attackProbability":0.1,"baseCaptureRate":0.02,"cameraDistance":2.25,"jumpTime":0.9,"attackTimer":29,"dodgeDistance":1,"maxPok
emonActionFrequency":1.6},"evolution":{},"stats":{"baseAttack":238,"baseStamina":237,"baseDefense":238},"dex":493,"name":"Arceus Steel","modelHeight":3.3,"cinematicMoves":
[{"name":"Futuresight","id":"FUTURESIGHT"},{"name":"Hyper Beam","id":"HYPER_BEAM"},{"name":"Outrage","id":"OUTRAGE"}],"id":"ARCEUS_STEEL","maxCP":3989,"family":
{"name":"Arceus","id":"FAMILY_ARCEUS"},"camera":{"cylinderRadius":0.252,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[{"name":"Arceus","id":"ARCEUS"},{"name":"Arceus
Fighting","id":"ARCEUS_FIGHTING"},{"name":"Arceus Flying","id":"ARCEUS_FLYING"},{"name":"Arceus Poison","id":"ARCEUS_POISON"},{"name":"Arceus Ground","id":"ARCEUS_GROUND"},
{"name":"Arceus Rock","id":"ARCEUS_ROCK"},{"name":"Arceus Bug","id":"ARCEUS_BUG"},{"name":"Arceus Ghost","id":"ARCEUS_GHOST"},{"name":"Arceus Steel","id":"ARCEUS_STEEL"},{"name":"Arceus
Fire","id":"ARCEUS_FIRE"},{"name":"Arceus Water","id":"ARCEUS_WATER"},{"name":"Arceus Grass","id":"ARCEUS_GRASS"},{"name":"Arceus Electric","id":"ARCEUS_ELECTRIC"},{"name":"Arceus
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
Fairy","id":"ARCEUS_FAIRY"}],"height":3.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":
[{"name":"Water","id":"POKEMON_TYPE_WATER"}],"modelScale":1.26,"buddySize":{"name":"Medium","id":"BUDDY_MEDIUM"},"quickMoves":[{"name":"Iron Tail Fast","id":"IRON_TAIL_FAST"},
{"name":"Shadow Claw Fast","id":"SHADOW_CLAW_FAST"}],"weight":320,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Hovering","id":"MOVEMENT_HOVERING"},"collisionRadius":0.189,"attackProbability":0.1,"baseCaptureRate":0.02,"cameraDistance":2.25,"jumpTime":0.9,"attackTimer":29,"dodgeDistance":1,"maxPok
emonActionFrequency":1.6},"evolution":{},"stats":{"baseAttack":238,"baseStamina":237,"baseDefense":238},"dex":493,"name":"Arceus Water","modelHeight":3.3,"cinematicMoves":
[{"name":"Futuresight","id":"FUTURESIGHT"},{"name":"Hyper Beam","id":"HYPER_BEAM"},{"name":"Outrage","id":"OUTRAGE"}],"id":"ARCEUS_WATER","maxCP":3989,"family":
{"name":"Arceus","id":"FAMILY_ARCEUS"},"camera":{"cylinderRadius":0.252,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[{"name":"Arceus","id":"ARCEUS"},{"name":"Arceus
Fighting","id":"ARCEUS_FIGHTING"},{"name":"Arceus Flying","id":"ARCEUS_FLYING"},{"name":"Arceus Poison","id":"ARCEUS_POISON"},{"name":"Arceus Ground","id":"ARCEUS_GROUND"},
{"name":"Arceus Rock","id":"ARCEUS_ROCK"},{"name":"Arceus Bug","id":"ARCEUS_BUG"},{"name":"Arceus Ghost","id":"ARCEUS_GHOST"},{"name":"Arceus Steel","id":"ARCEUS_STEEL"},{"name":"Arceus
Fire","id":"ARCEUS_FIRE"},{"name":"Arceus Water","id":"ARCEUS_WATER"},{"name":"Arceus Grass","id":"ARCEUS_GRASS"},{"name":"Arceus Electric","id":"ARCEUS_ELECTRIC"},{"name":"Arceus
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
Fairy","id":"ARCEUS_FAIRY"}],"height":3.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":
[{"name":"Steel","id":"POKEMON_TYPE_STEEL"}],"modelScale":1.02,"buddySize":{"name":"Medium","id":"BUDDY_MEDIUM"},"quickMoves":[{"name":"Thunder Shock
Fast","id":"THUNDER_SHOCK_FAST"}],"weight":8,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Jump","id":"MOVEMENT_JUMP"},"collisionRadius":0.25,"attackProbability":0.1,"baseCaptureRate":0.3,"cameraDistance":1.89,"jumpTime":1.1,"attackTimer":29,"dodgeDistance":1,"maxPokemonAction
Frequency":1.6},"evolution":{"futureBranches":[{"costToEvolve":{"candyCost":400},"name":"Melmetal","id":"MELMETAL"}]},"stats":
{"baseAttack":112,"baseStamina":130,"baseDefense":113},"dex":808,"name":"Meltan","modelHeight":0.95,"cinematicMoves":[{"name":"Flash Cannon","id":"FLASH_CANNON"},
{"name":"Thunderbolt","id":"THUNDERBOLT"}],"id":"MELTAN","maxCP":1080,"family":{"name":"Meltan","id":"FAMILY_MELTAN"},"camera":
{"cylinderRadius":0.125,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[],"height":0.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},
{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":[{"name":"Steel","id":"POKEMON_TYPE_STEEL"}],"modelScale":1.26,"buddySize":{"name":"Big","id":"BUDDY_BIG"},"quickMoves":
[{"name":"Thunder Shock Fast","id":"THUNDER_SHOCK_FAST"}],"weight":800,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Jump","id":"MOVEMENT_JUMP"},"collisionRadius":0.189,"attackProbability":0.1,"baseCaptureRate":0.3,"cameraDistance":3.2,"jumpTime":0.9,"attackTimer":29,"dodgeDistance":1,"maxPokemonAction
Frequency":1.6},"evolution":{"costToEvolve":{"candyCost":400},"pastBranch":{"name":"Meltan","id":"MELTAN"}},"stats":
{"baseAttack":231,"baseStamina":264,"baseDefense":213},"dex":809,"name":"Melmetal","modelHeight":3.82,"cinematicMoves":[{"name":"Flash Cannon","id":"FLASH_CANNON"},
{"name":"Thunderbolt","id":"THUNDERBOLT"},{"name":"Hyper Beam","id":"HYPER_BEAM"},{"name":"Rock Slide","id":"ROCK_SLIDE"}],"id":"MELMETAL","maxCP":3875,"family":
{"name":"Meltan","id":"FAMILY_MELTAN"},"camera":{"cylinderRadius":2.4,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[],"height":2.5,"kmBuddyDistance":20,"rarity":
{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"dex":1000,"name":"BulbasaurNew","height":0.8},{"dex":1001,"name":"BulbasaurNew2","height":0.2},
{"dex":1002,"name":"BulbasaurNew2","modelHeight":"0.8"},{"dex":1004,"name":"BulbasaurNew4","modelHeight":"0.2"}]
```

5.Deleting the pokemon list

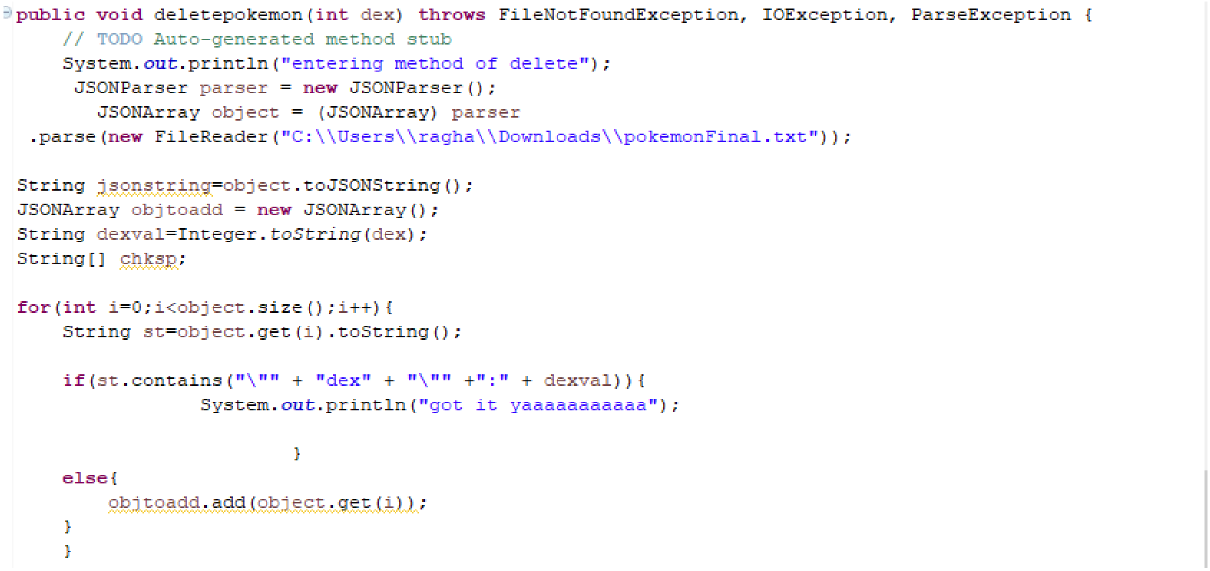


```
      //Delete exsisting pokemon
      @GET
         @Produces(MediaType.TEXT_PLAIN)
   @Consumes(MediaType.TEXT_PLAIN)
   @Path("deletepokemon/{id}")
   public Response deletepokemonc(@PathParam("id") int dex) throws FileNotFoundException, IOException, Pa
      System.out.println("stage 4");
          dao daobj=new dao();
     daobj.deletepokemon(dex);

   return Response.status(200)
                 .entity("Deleted the  pokemon list with dex: " + dex ).build();
   }

}
```

Controller to delete pokemon list



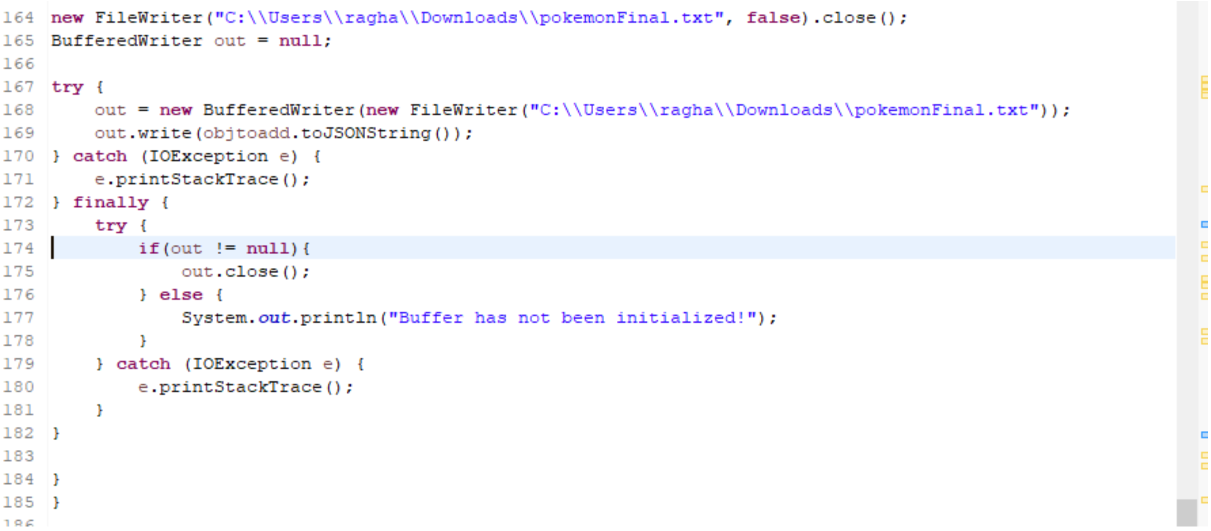
```
public void deletepokemon(int dex) throws FileNotFoundException, IOException, ParseException {
    // TODO Auto-generated method stub
    System.out.println("entering method of delete");
     JSONParser parser = new JSONParser();
        JSONArray object = (JSONArray) parser
  .parse(new FileReader("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt"));

String jsonstring=object.toJSONString();
JSONArray objtoadd = new JSONArray();
String dexval=Integer.toString(dex);
String[] chksp;

for(int i=0;i<object.size();i++){
    String st=object.get(i).toString();

    if(st.contains("\"" + "dex" + "\"" +":" + dexval)){
                System.out.println("got it yaaaaaaaaaaa");

                        }
    else{
        objtoadd.add(object.get(i));
    }
    }
```



```
new FileWriter("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt", false).close();
BufferedWriter out = null;

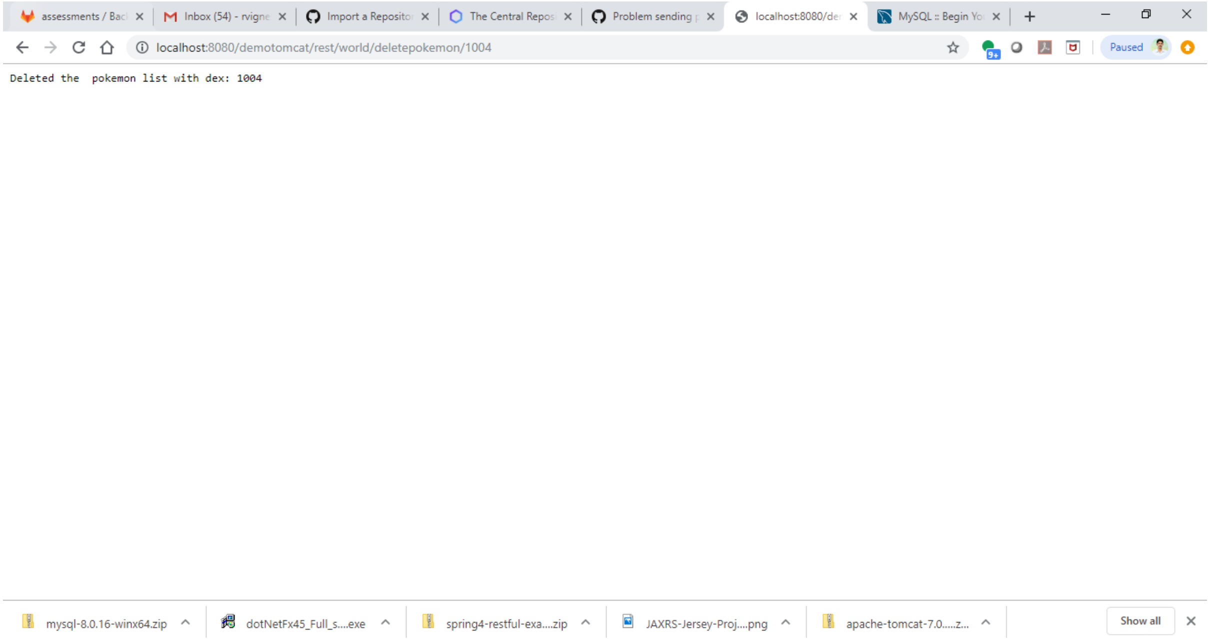
try {
    out = new BufferedWriter(new FileWriter("C:\\Users\\ragha\\Downloads\\pokemonFinal.txt"));
    out.write(objtoadd.toJSONString());
} catch (IOException e) {
    e.printStackTrace();
} finally {
    try {
        if(out != null){
            out.close();
        } else {
            System.out.println("Buffer has not been initialized!");
        }
    } catch (IOException e) {
        e.printStackTrace();
    }
}

}
}
```

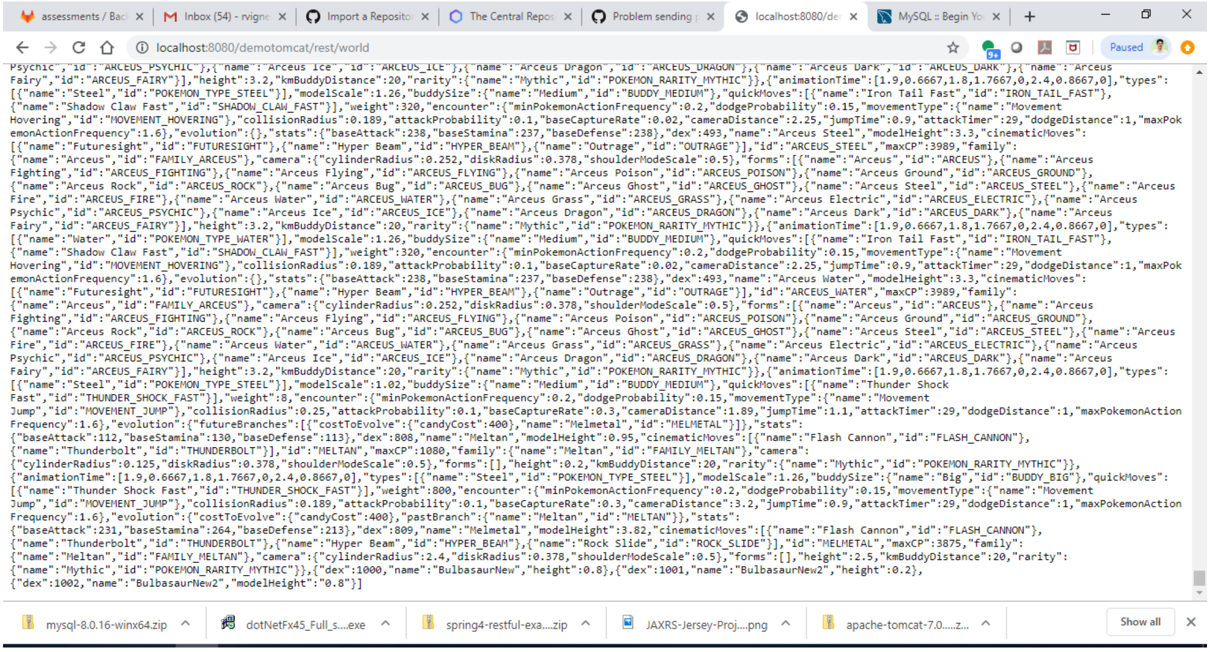
Dao to delete the pokemon list.

OUTPUT

URL: http://localhost:8080/demotomcat/rest/world/deletepokemon/1004



```
Deleted the  pokemon list with dex: 1004
```



```
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
Fairy","id":"ARCEUS_FAIRY"}],"height":3.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":
[{"name":"Steel","id":"POKEMON_TYPE_STEEL"}],"modelScale":1.26,"buddySize":{"name":"Medium","id":"BUDDY_MEDIUM"},"quickMoves":[{"name":"Iron Tail Fast","id":"IRON_TAIL_FAST"},
{"name":"Shadow Claw Fast","id":"SHADOW_CLAW_FAST"}],"weight":320,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Hovering","id":"MOVEMENT_HOVERING"},"collisionRadius":0.189,"attackProbability":0.1,"baseCaptureRate":0.02,"cameraDistance":2.25,"jumpTime":0.9,"attackTimer":29,"dodgeDistance":1,"maxPok
emonActionFrequency":1.6},"evolution":{},"stats":{"baseAttack":238,"baseStamina":237,"baseDefense":238},"dex":493,"name":"Arceus Steel","modelHeight":3.3,"cinematicMoves":
[{"name":"Futuresight","id":"FUTURESIGHT"},{"name":"Hyper Beam","id":"HYPER_BEAM"},{"name":"Outrage","id":"OUTRAGE"}],"id":"ARCEUS_STEEL","maxCP":3989,"family":
{"name":"Arceus","id":"FAMILY_ARCEUS"},"camera":{"cylinderRadius":0.252,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[{"name":"Arceus","id":"ARCEUS"},{"name":"Arceus
Fighting","id":"ARCEUS_FIGHTING"},{"name":"Arceus Flying","id":"ARCEUS_FLYING"},{"name":"Arceus Poison","id":"ARCEUS_POISON"},{"name":"Arceus Ground","id":"ARCEUS_GROUND"},
{"name":"Arceus Rock","id":"ARCEUS_ROCK"},{"name":"Arceus Bug","id":"ARCEUS_BUG"},{"name":"Arceus Ghost","id":"ARCEUS_GHOST"},{"name":"Arceus Steel","id":"ARCEUS_STEEL"},{"name":"Arceus
Fire","id":"ARCEUS_FIRE"},{"name":"Arceus Water","id":"ARCEUS_WATER"},{"name":"Arceus Grass","id":"ARCEUS_GRASS"},{"name":"Arceus Electric","id":"ARCEUS_ELECTRIC"},{"name":"Arceus
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
Fairy","id":"ARCEUS_FAIRY"}],"height":3.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":
[{"name":"Water","id":"POKEMON_TYPE_WATER"}],"modelScale":1.26,"buddySize":{"name":"Medium","id":"BUDDY_MEDIUM"},"quickMoves":[{"name":"Iron Tail Fast","id":"IRON_TAIL_FAST"},
{"name":"Shadow Claw Fast","id":"SHADOW_CLAW_FAST"}],"weight":320,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Hovering","id":"MOVEMENT_HOVERING"},"collisionRadius":0.189,"attackProbability":0.1,"baseCaptureRate":0.02,"cameraDistance":2.25,"jumpTime":0.9,"attackTimer":29,"dodgeDistance":1,"maxPok
emonActionFrequency":1.6},"evolution":{},"stats":{"baseAttack":238,"baseStamina":237,"baseDefense":238},"dex":493,"name":"Arceus Water","modelHeight":3.3,"cinematicMoves":
[{"name":"Futuresight","id":"FUTURESIGHT"},{"name":"Hyper Beam","id":"HYPER_BEAM"},{"name":"Outrage","id":"OUTRAGE"}],"id":"ARCEUS_WATER","maxCP":3989,"family":
{"name":"Arceus","id":"FAMILY_ARCEUS"},"camera":{"cylinderRadius":0.252,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[{"name":"Arceus","id":"ARCEUS"},{"name":"Arceus
Fighting","id":"ARCEUS_FIGHTING"},{"name":"Arceus Flying","id":"ARCEUS_FLYING"},{"name":"Arceus Poison","id":"ARCEUS_POISON"},{"name":"Arceus Ground","id":"ARCEUS_GROUND"},
{"name":"Arceus Rock","id":"ARCEUS_ROCK"},{"name":"Arceus Bug","id":"ARCEUS_BUG"},{"name":"Arceus Ghost","id":"ARCEUS_GHOST"},{"name":"Arceus Steel","id":"ARCEUS_STEEL"},{"name":"Arceus
Fire","id":"ARCEUS_FIRE"},{"name":"Arceus Water","id":"ARCEUS_WATER"},{"name":"Arceus Grass","id":"ARCEUS_GRASS"},{"name":"Arceus Electric","id":"ARCEUS_ELECTRIC"},{"name":"Arceus
Psychic","id":"ARCEUS_PSYCHIC"},{"name":"Arceus Ice","id":"ARCEUS_ICE"},{"name":"Arceus Dragon","id":"ARCEUS_DRAGON"},{"name":"Arceus Dark","id":"ARCEUS_DARK"},{"name":"Arceus
Fairy","id":"ARCEUS_FAIRY"}],"height":3.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":
[{"name":"Steel","id":"POKEMON_TYPE_STEEL"}],"modelScale":1.02,"buddySize":{"name":"Medium","id":"BUDDY_MEDIUM"},"quickMoves":[{"name":"Thunder Shock
Fast","id":"THUNDER_SHOCK_FAST"}],"weight":8,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Jump","id":"MOVEMENT_JUMP"},"collisionRadius":0.25,"attackProbability":0.1,"baseCaptureRate":0.3,"cameraDistance":1.89,"jumpTime":1.1,"attackTimer":29,"dodgeDistance":1,"maxPokemonAction
Frequency":1.6},"evolution":{"futureBranches":[{"costToEvolve":{"candyCost":400},"name":"Melmetal","id":"MELMETAL"}]},"stats":
{"baseAttack":112,"baseStamina":130,"baseDefense":113},"dex":808,"name":"Meltan","modelHeight":0.95,"cinematicMoves":[{"name":"Flash Cannon","id":"FLASH_CANNON"},
{"name":"Thunderbolt","id":"THUNDERBOLT"}],"id":"MELTAN","maxCP":1080,"family":{"name":"Meltan","id":"FAMILY_MELTAN"},"camera":
{"cylinderRadius":0.125,"diskRadius":0.378,"shoulderModeScale":0.5},"forms":[],"height":0.2,"kmBuddyDistance":20,"rarity":{"name":"Mythic","id":"POKEMON_RARITY_MYTHIC"}},
{"animationTime":[1.9,0.6667,1.8,1.7667,0,2.4,0.8667,0],"types":[{"name":"Steel","id":"POKEMON_TYPE_STEEL"}],"modelScale":1.26,"buddySize":{"name":"Big","id":"BUDDY_BIG"},"quickMoves":
[{"name":"Thunder Shock Fast","id":"THUNDER_SHOCK_FAST"}],"weight":800,"encounter":{"minPokemonActionFrequency":0.2,"dodgeProbability":0.15,"movementType":{"name":"Movement
Jump","id":"MOVEMENT_JUMP"},"collisionRadius":0.189,"attackProbability":0.1,"baseCaptureRate":0.3,"cameraDistance":3.2,"jumpTime":0.9,"attackTimer":29,"dodgeDistance":1,"maxPokemonAction
Frequency":1.6},"evolution":{"costToEvolve":{"candyCost":400},"pastBranch":{"name":"Meltan","id":"MELTAN"}},"stats":
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The pokemon list has been removed

THANKYOU