

Spring boot with JDBC

API 1:

url : <http://localhost:8080/api/showallEmployee>

type : Get

```
@RequestMapping("/getallemployee")
```

```
public ArrayList<Employee> getAllemployee() throws ClassNotFoundException,  
SQLException
```

```
{  
    Connection conn=ConfigurationClass.getConnection();  
  
    String query="select * from employee";  
  
    Statement stmt=conn.createStatement();  
  
    ResultSet rs=stmt.executeQuery(query);  
  
    ArrayList<Employee> emplist=new ArrayList<>();  
    while(rs.next())  
    {  
        Employee emp=new Employee();  
  
        emp.setId(rs.getInt("id"));  
        emp.setName(rs.getString("name"));  
        emp.setPhoneno(rs.getString("phoneno"));  
        emp.setDepartmentit(rs.getString("departmentit"));
```

```

        emp.setStatus(rs.getString("status"));
        emp.setCreateddtm(rs.getDate("createddtm"));
        emp.setCreatedby(rs.getString("createdby"));
        emp.setUpdateddtm(rs.getDate("updateddtm"));
        emp.setUpdatedby(rs.getString("updatedby"));
        emp.setCid(rs.getInt("cid"));
        emplist.add(emp);
    }

    return emplist;
}

```

API 2:

url: <http://localhost:8080/api/{eid}>

Type :GET

```

    @GetMapping("/getallemployeebyid/{id}")
    public ArrayList<Employee> getAllemployeebyId(@PathVariable String id)
    throws ClassNotFoundException, SQLException
    {
        int emp_id=Integer.parseInt(id);

        Connection conn=ConfigurationClass.getConnection();

        String query="select * from employee where id="+emp_id;

        Statement stmt=conn.createStatement();
    }

```

```
ResultSet rs=stmt.executeQuery(query);
```

```
ArrayList<Employee> emplist=new ArrayList<>();
```

```
while(rs.next())
```

```
{
```

```
    Employee emp=new Employee();
```

```
    emp.setId(rs.getInt("id"));
```

```
    emp.setName(rs.getString("name"));
```

```
    emp.setPhoneno(rs.getString("phoneno"));
```

```
    emp.setDepartmentit(rs.getString("departmentit"));
```

```
    emp.setStatus(rs.getString("status"));
```

```
    emp.setCreateddtm(rs.getDate("createddtm"));
```

```
    emp.setCreatedby(rs.getString("createdby"));
```

```
    emp.setUpdateddtm(rs.getDate("updateddtm"));
```

```
    emp.setUpdatedby(rs.getString("updatedby"));
```

```
    emp.setCid(rs.getInt("cid"));
```

```
    emplist.add(emp);
```

```
}
```

```
return emplist;
```

```
}
```

API 3:

url: <http://localhost:8080/api/showEmployeesByName/{empname}>

type: GET

```
@GetMapping("/getallemployeebyname/{name}")

public ArrayList<Employee> getAllemployeebyName(@PathVariable
String name) throws ClassNotFoundException, SQLException
{

    Connection conn=ConfigurationClass.getConnection();

    String query="select * from employee where name='"+name+"'";

    Statement stmt=conn.createStatement();

    ResultSet rs=stmt.executeQuery(query);

    ArrayList<Employee> emplist=new ArrayList<>();
    while(rs.next())
    {
        Employee emp=new Employee();

        emp.setId(rs.getInt("id"));
        emp.setName(rs.getString("name"));
        emp.setPhoneno(rs.getString("phoneno"));
        emp.setDepartmentit(rs.getString("departmentit"));
        emp.setStatus(rs.getString("status"));
    }
}
```

```

emp.setCreateddtm(rs.getDate("createddtm"));
emp.setCreatedby(rs.getString("createdby"));
emp.setUpdateddtm(rs.getDate("updateddtm"));
emp.setUpdatedby(rs.getString("updatedby"));
emp.setCid(rs.getInt("cid"));
emplist.add(emp);
}

return emplist;
}

```

API 4:

url: <http://localhost:8080/api/showEmployeesByStatus/{status}>
type: GET

```

@GetMapping("/getallemployeebystatus/{status}")
public ArrayList<Employee> getAllemployeebyStatus(@PathVariable
String status) throws ClassNotFoundException, SQLException
{
    Connection conn=ConfigurationClass.getConnection();

    String query="select * from employee where status='"+status+"'";

    Statement stmt=conn.createStatement();

    ResultSet rs=stmt.executeQuery(query);

```

```
ArrayList<Employee> emplist=new ArrayList<>();
while(rs.next())
{
    Employee emp=new Employee();

    emp.setId(rs.getInt("id"));
    emp.setName(rs.getString("name"));
    emp.setPhoneno(rs.getString("phoneno"));
    emp.setDepartmentit(rs.getString("departmentit"));
    emp.setStatus(rs.getString("status"));
    emp.setCreateddtm(rs.getDate("createddtm"));
    emp.setCreatedby(rs.getString("createdby"));
    emp.setUpdateddtm(rs.getDate("updateddtm"));
    emp.setUpdatedby(rs.getString("updatedby"));
    emp.setCid(rs.getInt("cid"));
    emplist.add(emp);
}

return emplist;
}
```


API 5:

url : <http://localhost:8080/api/addemployee>

type : POST

```
@PostMapping("/addemployee")

public String addEmployee(@RequestBody Employee emp) throws
ClassNotFoundException, SQLException
{
    Connection conn=ConfigurationClass.getConnection();

    PreparedStatement pstmt=conn.prepareStatement("insert into
employee(name,phoneno,departmentit,status,createddtm,createdby,updateddtm,up
datedby,cid) values(?,?,?,?,?,?,?,?,?)");

    pstmt.setString(1, emp.getName());
    pstmt.setString(2,emp.getPhoneno());
    pstmt.setString(3, emp.getDepartmentit());
    pstmt.setString(4, emp.getStatus());
    pstmt.setDate(5, emp.getCreateddtm());
    pstmt.setString(6, emp.getCreatedby());
    pstmt.setDate(7, emp.getUpdateddtm());
    pstmt.setString(8, emp.getUpdatedby());
    pstmt.setInt(9, emp.getCid());
    int i=pstmt.executeUpdate();//1
    if(i>0)
    {
        return "Employee "+emp.getName()+" Added Successfully!!";
    }
}
```

```

else
{
    return "something Went Wrong!!";
}

}

```

API 6:

url : <http://localhost:8080/api/updateemployee>

type : put

```

@PutMapping("/updateemployee")
public String updateEmployee(@RequestBody Employee emp) throws
ClassNotFoundException, SQLException
{
    Connection conn=ConfigurationClass.getConnection();

    PreparedStatement psmt=conn.prepareStatement("update employee
set
name=?,phoneno=?,departmentit=?,status=?,createddtm=?,createdby=?,updateddt
m=?,updatedby=? where id=?");

    psmt.setString(1, emp.getName());
    psmt.setString(2,emp.getPhoneno());
    psmt.setString(3, emp.getDepartmentit());
    psmt.setString(4, emp.getStatus());
    psmt.setDate(5, emp.getCreateddtm());
    psmt.setString(6, emp.getCreatedby());
    psmt.setDate(7, emp.getUpdateddtm());
    psmt.setString(8, emp.getUpdatedby());

```



```

psmt.setInt(9, emp.getId());
int i=psmt.executeUpdate();///1
if(i>0)
{
    return "Employee "+emp.getName()+" Updated
Successfully!!";
}
else
{
    return "something Went Wrong!!";
}
}

```

API 7:

url : <http://localhost:8080/api/deleteemployee/{id}>

type : DELETE

```

@DeleteMapping("/deleteemployee/{id}")
public String deleteEmployee(@PathVariable String id) throws
ClassNotFoundException, SQLException

```

```

{
    Connection connection=ConfigurationClass.getConnection();
    int emp_id=Integer.parseInt(id);
    String query="delete from employee where id="+emp_id;

    Statement stmt=connection.createStatement();

```

```

int i=stmt.executeUpdate(query);
if(i>0)
{
    return "Employee "+id+" Deleted Successfully!";
}
else
{
    return "Something went wrong!!";
}
}

```

API 8:

url : <http://localhost:8080/api/getallemployeebycountryname/{cname}>
 type : GET

```

@GetMapping("/getallemployeebycname/{cname}")
public ArrayList<Employee>
getAllemployeebyCountryName(@PathVariable String cname) throws
ClassNotFoundException, SQLException
{
    Connection conn=ConfigurationClass.getConnection();
    String sql="select * from country where cname='"+cname+"'";
    Statement smt=conn.createStatement();
    ResultSet rs1=smt.executeQuery(sql);
    int id=0;
    if(rs1.next())

```

```
{  
    id=rs1.getInt("cid");  
}
```

```
String query="select * from employee where cid="+id;
```

```
Statement stmt=conn.createStatement();
```

```
ResultSet rs=stmt.executeQuery(query);
```

```
ArrayList<Employee> emplist=new ArrayList<>();
```

```
while(rs.next())
```

```
{
```

```
    Employee emp=new Employee();
```

```
    emp.setId(rs.getInt("id"));
```

```
    emp.setName(rs.getString("name"));
```

```
    emp.setPhoneno(rs.getString("phoneno"));
```

```
    emp.setDepartmentit(rs.getString("departmentit"));
```

```
    emp.setStatus(rs.getString("status"));
```

```
    emp.setCreateddtm(rs.getDate("createddtm"));
```

```
    emp.setCreatedby(rs.getString("createdby"));
```

```
    emp.setUpdateddtm(rs.getDate("updateddtm"));
```

```
    emp.setUpdatedby(rs.getString("updatedby"));
```

```
    emp.setCid(rs.getInt("cid"));
```

```
emplist.add(emp);
```

```
}
```

```
return emplist;
```

```
}
```

API 9:

url : <http://localhost:8080/api/getcountry>

type : GET

```
@GetMapping("/getcountry")
```

```
public ArrayList<Country> getCountry() throws ClassNotFoundException,  
SQLException
```

```
{
```

```
    Connection conn=ConfigurationClass.getConnection();
```

```
    ArrayList<Country> listcountry=new ArrayList<>();
```

```
    String query="select * from country";
```

```
    Statement smt=conn.createStatement();
```

```
    ResultSet rs=smt.executeQuery(query);
```

```
    while(rs.next())
```

```
{
```

```
        Country ctr=new Country();
```

```
        ctr.setCid(rs.getInt("cid"));
```

```
        ctr.setCname(rs.getString("cname"));
```

```
        listcountry.add(ctr);
    }
    return listcountry;
}
```

API 10:

url : <http://localhost:8080/api/addcountry>
type : POST

```
@PostMapping("/addcountry")
public String addCountry(@RequestBody Country country) throws
ClassNotFoundException, SQLException
{
    Connection conn=ConfigurationClass.getConnection();

    PreparedStatement psmt=conn.prepareStatement("insert into
country(cname) values(?)");

    psmt.setString(1, country.getCname());

    int i=psmt.executeUpdate();
    if(i>0)
    {
        return "Country "+country.getCname()+" Added
Successfully!";
    }
    else
    {
        return "Something Went Wrong!!";
    }
}
```

```
}
```

API 11:

url : <http://localhost:8080/api/updatecountry>

type : PUT

```
@PutMapping("/updatecountry")
public String updateCountry(@RequestBody Country country) throws
ClassNotFoundException, SQLException
{
    Connection conn=ConfigurationClass.getConnection();

    PreparedStatement psmt=conn.prepareStatement("update country set
cname=? where cid=?");

    psmt.setString(1, country.getCname());
    psmt.setInt(2, country.getCid());

    int i=psmt.executeUpdate();
    if(i>0)
    {
        return "Country "+country.getCid()+" Updated Successfully!";
    }
    else
    {
        return "Something Went Wrong!!";
    }
}
```



```
}
```

API 12:

url : <http://localhost:8080/api/deletecountry/{cid}>

type : DELETE

```
@DeleteMapping("/deletecountry/{cid}")
```

```
public String deleteCountry(@PathVariable String cid) throws  
ClassNotFoundException, SQLException
```

```
{
```

```
    Connection conn=ConfigurationClass.getConnection();
```

```
    String query="delete from country where cid="+cid;
```

```
    Statement stmt=conn.createStatement();
```

```
    int i=stmt.executeUpdate(query);
```

```
    if(i>0)
```

```
    {
```

```
        return "Country "+cid+" Deleted Successfully!";
```

```
    }
```

```
    else
```

```
    {
```

```
        return "something Went Wrong";
```

```
    }
```

```
}
```

API 13:

url : <http://localhost:8080/api/deletecountrybycname/{cname}>

type : DELETE

```
@DeleteMapping("/deletecountrybycname/{cname}")
```

```
public String deleteCountrybycname(@PathVariable String cname) throws  
ClassNotFoundException, SQLException
```

```
{  
    Connection conn=ConfigurationClass.getConnection();  
  
    String query="delete from country where cname="+cname;  
  
    Statement stmt=conn.createStatement();  
    int i=stmt.executeUpdate(query);  
    if(i>0)  
    {  
        return "Country "+cname+" Deleted Successfully!";  
    }  
    else  
    {  
        return "something Went Wrong";  
    }  
}
```

API 14:

url : <http://localhost:8080/api/listbeforetoday>

type : GET

```
@GetMapping("/getemployeeelistbeforetoday")

public ArrayList<Employee> getemployeeelistbeforetoday() throws
ClassNotFoundException, SQLException
{
    Connection conn=ConfigurationClass.getConnection();
    long millis=System.currentTimeMillis();

    Date todaydate=new Date(millis);
    System.out.println(todaydate);
    String query="select * from employee where createddtm
<""+todaydate+""";

    Statement stmt=conn.createStatement();
    ResultSet rs=stmt.executeQuery(query);

    ArrayList<Employee>emplist =new ArrayList<>();
    while(rs.next())
    {
        Employee emp=new Employee();

        emp.setId(rs.getInt("id"));
        emp.setName(rs.getString("name"));
        emp.setPhoneno(rs.getString("phoneno"));
```

```
emp.setDepartmentit(rs.getString("departmentit"));
emp.setStatus(rs.getString("status"));
emp.setCreateddtm(rs.getDate("createddtm"));
emp.setCreatedby(rs.getString("createdby"));
emp.setUpdateddtm(rs.getDate("updateddtm"));
emp.setUpdatedby(rs.getString("updatedby"));
emp.setCid(rs.getInt("cid"));
emplist.add(emp);
}
return emplist;
}
```



Java

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