

# REST API WITH SPRING BOOT

## Design Diagram



## EASY SETUP INSTRUCTIONS

- Create Spring Initializer Project at <https://start.spring.io/>
- Provide Group and Artifact as `com.solstice` and `contact`
- Unzip the artifact and create existing Maven Project in Eclipse
- Copy the src content from the source Zip code and `pom.xml`
- Modify the application properties for database credentials and access
- Change the ddl property to create/none appropriately
- The Server will be run on localhost:8080 while running the maven build
- The welcoming html shows some of the api functionalities
- Alternatively run `mvn package` and generate the jar file which can be easily deployable in AWS

## UNIT TEST CASE LOCATIONS

- src/test/java

## UI SCREENS

### Add/Edit Contact Screen

My Contacts

File

New Contact

First name

Last name

Upload Photo

Choose Files

No file chosen

Email

Phone Number

Address

City

Country

Choose...

State

Choose...

Zip

Save Contact

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### List/Delete/Search Screen

My Contacts

File

Search

Name : Pinky Sindhu

Email : pinky.sindhu18@gmail.com

Phone Number : 8479975828

Address : 1804 Oslo Ct, Mundelein,  
Illinois, 60060, United States

Edit

Delete

Page created with [Bootstrap](#)

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## REST API ENDPOINTS

**Content-Type = application/json**

1. To find the contact by ID

<http://192.168.0.105:8080/api/contact/{id}>

**Request : GET : <http://192.168.0.105:8080/contact/1>**

2. To find the list of all Contacts

<http://192.168.0.105:8080/api/list/>

**Request : GET : <http://192.168.0.105:8080/api/list/>**

**Response**

```
[{"id":4,"firstname":"Jane","lastname":"Doe","email":"jane.doe@gmail.com","phonenumber":"12345678","image":"123","city":"Chicago","state":"Illinois","country":"United States","zip":"54321","address":"128 Lans Lane"}]
```

3. To Delete all Contacts

<http://192.168.0.105:8080/api/delete>

**Request : DELETE : <http://192.168.0.105:8080/api/delete>**

4. To delete contact by Id

<http://192.168.0.105:8080/api/delete/{id}>

**Request : GET : <http://192.168.0.105:8080/api/delete/1>**

5. To search contact by Phone Number/Email

<http://192.168.0.105:8080/api/search/{value}>

**Request : GET : <http://192.168.0.105:8080/api/contact/pinky@email.com>**

6. To retrieve contact by State or City

<http://192.168.0.105:8080/api/retrieve/{value}>

**Request : GET : <http://192.168.0.105:8080/api/contact/Illinois>**

7. To Save a Contact

<http://192.168.0.105:8080/api/>

**Request :**

```
{  
  "id":4,  
  "firstname":"Jane",
```

```
"lastname":"Doe",  
"email":"jane.doe@gmail.com",  
"phonenumber":"12345678",  
"image":<base64 data>,  
"city":"Chicago",  
"state":"Illinois",  
"country":"United States",  
"zip":"54321",  
"address":"128 Lans Lane"  
}
```