

Requirements:

- The application should be written as a Springboot application
- Java 8 should be used
- The application should be a REST API for the contact form (do not develop a web page)
- The application should have a Contact endpoint with Create, Update and Delete capabilities
- The application should allow for basic search functionality of a contact by: first name, last name and zip code
- The application should validate all zip codes entered by the user against the following API:
<https://www.zipcodeapi.com/API#zipToLoc> (see the Additional Notes below on this API below for clarification on this requirement)
- The application should use an H2 in memory database to store data

Additional Notes / Clarifications:

For zip code validation, the zip code should be a valid zip code as defined in the response from the API based on city and state. For example, the following shows all zip codes for Chicago, IL:

<https://www.zipcodeapi.com/rest/ELvHn5VnbRnVWADOq1YQMbkWt4A4RtugEwGiYBCflaKn6bSKH6W2APmkPPJtilj/city-zips.json/chicago/IL>

```
{
  "zip_codes": [
    "60290",
    "60601",
    "60606",
    "60607",
    "60608",
    "60609",
    "60610",
    "60611",
    "60612",
    *****
  ]
}
```

The application should verify the zip code entered is in the list returned by the zip code API. If the zip code is invalid – then a Bad Request should be returned.

Submission Instructions: Create a public GitHub repository and check in your code. Provide the URL for the repository in an email along with a screen shot of the unit tests passing and their associated code coverage.