# **Egen Coding Challenge – Level 2**

Create a restful web service for User Management application using

* Spring MVC to expose your services
* HSQLDB - <http://hsqldb.org/> and <http://hsqldb.org/doc/2.0/guide/guide.pdf> as your in-memory database
* Hibernate as ORM

## Assumptions

* User has the following properties
  + id (UUID)
  + firstName (alphabets)
  + middleName (alphabets but it is optional)
  + lastName (alphabets)
  + age (valid non zero positive number)
  + gender (M or F)
  + phone (10-digit positive number)
  + zip (optional field)
* The User's ID uniquely identifies a user.
* Feel free to use any framework or library in your code.
* Use JSON as your data format to exchange data with your API

## Question

* Use HSQLDB as your in-memory database and Hibernate on top of it.
* Use Spring MVC to expose your web services.
* Develop the below 3 services,
  + **createUser**
    - Takes input as JSON.
    - Creates the user if he is not already available in the datastore.
  + **getAllUsers**
    - Gives the list of all users that are in the datastore
  + **updateUser**
    - Takes input as JSON
    - Finds the user from the data store
      * if found, updates the required fields
      * if not found, sends back a 404 saying user not found
* Use dependency injection wherever possible
* Unit tests using any unit testing framework