## **Instructions**

Students are asked to develop a simple spring boot app to handle partial “Blood Bank Information System” with seeker, blood bank and blood stock information. You should have a spring boot application file named “SpringBootYourNameAssign3Appplication”, which starts the Tomcat Apache server on port 8080 ([http://localhost:8080](http://localhost:8080/)) (You may assign different port number to the server).

You should follow the below given instructions while you are working on this exercise:

All new entities should have an Id with type of integer or long and all other properties are defined based on given table information in the next page.

The architecture of the web service is built with the following components:

* Controllers: Implements the processing logic of the web service, parsing of parameters and validation of in- and outputs.
* Services: Implements the business logic and handles the access to the resources.
* HTML files with thymeleaf templates – may implement this in the same or different project.
* POM.xml configuration.
* You are free to add any other files or configuration needed

Your app should support the REST web services of partial “Blood Bank Service” details as shown in the below given table. (You should use a Map or List as a memory storage, but you don’t really need to create a table and no JPA implementation required)

| **Seeker or Patient** | **BloodBank** | **BloodStock** |
| --- | --- | --- |
| FirstName  LastName  Age  BloodGroup  City  Phone | BloodbankName  Address  City  Phone  Email | BloodGroup  Quantity  BestBefore (date)  Status |

You should define entities, services and controllers for each and every information:

Example for Seeker information:

* Seeker – Entity name
* SeekerService - service name
* SeekerController – REST controller name

Your REST service should perform the following requests for all three entities (Seeker, BloodBank, and BloodStock).

* GET
* POST
* PUT
* DELETE

You should use POSTMAN or any other REST Client to test your REST services mapping. (Refer recipe \_3\_2 and SpringBootRestAPI and SpringBootRestExmployee examples)