Vert.x Lab

How to submit

1. **Create git repository ;**
2. **Upload**

**repoName : yourName-yourid-vertxlab**

**-lab-1**

**Functional Programming**

Time : 15 mins

1.Create Login class, which should have method called validate.

Rules:

1. validate method must take two two args
2. The first arg is one functional Interface called “Resolve”, method name you can decide
3. The Second args is another functional interface “Reject”, method name you can decide
4. Write a biz logic to validate username and password; you can hardcode username and password values.
5. If validation is success, send “Login success” else “Login failed”.

Time : 30 mins

2.Implementation of functional application

Build Customer-Manager App using functional approach

* Repository
  + Have repository interface having methods findAll,findById,save,update,remove
  + Have repository implementation
  + Results Should be handled by Functional Interfaces like Consumer, Supplier.
  + Use Array List to store,update,remove,findAll Customer data
  + Customer Entity should be id,firstName,lastName,city.
* MainApp
  + Call apis for findAll, findbyid, saving, delete, update

**Reactive Programming**

**Time : 10 mins**

3 .Create an Observable Stream which should emit sequence of Employee Objects.

**Time : 6 mins**

3 .Create an Observable Stream which should emit sequence of Employee Objects**, Each Employee name must be transformed into uppercase**

**Time :8 mins**

**4.** Create an Observable Stream which should emit sequence of Employee Objects, **list all employees who are onsite** in upper case. Note : add new property in Employee Entity called “onsite=true”. Populate 5 employees.

**Time : 6 mins**

5.Create Employee Object, Departement, EmployeeDepartment**, zip data from Employee, Department, combine them , return new EmployeeDepartment Object.**