

## **Job Hunting Case Study**

1	Name of the Project	<b>Job Hunting</b>
2	Objective/ Vision	A user wanted to search for a job. Create an application which needs to fetch existing jobs from - <a href="https://www.themuse.com/developers/api/v2">https://www.themuse.com/developers/api/v2</a> . The application should have main dashboard which by default should show all available jobs. A user can search for a job on home page as well as can register itself. Logged in user can search job in a particular category. User should also able to put few job in watch list.
3	Users of the System	All Internet users
4	Functional Requirements	<ol style="list-style-type: none"> <li>1) Home Page should consist of Register page link through which a user can register himself. Upon registration, the user able to login into his account.</li> <li>2) User home page should also have options for to edit his profile and changing his password.</li> <li>3) Search for the jobs posted and display them on the dash board.</li> <li>4) Career Advice – Take advice about career based on the details fed by logged in user.</li> </ol>
5	Non-functional requirements	<ol style="list-style-type: none"> <li>a) App should be accessible from any location with access to the Internet.</li> <li>b) App should be responsive to display consistently across multiple device screens.</li> <li>c) App should have an intuitive UI that can be operated by novice-expert Internet users</li> </ol>
6	Tools and Technologies to be used	<ol style="list-style-type: none"> <li>1. VCS : Gitlab</li> <li>2. Middleware : Spring Boot</li> <li>3. Frond end : Angular/React</li> <li>4. Data Store : MongoDB / MySQL</li> <li>5. Testing : JUnit, Mocha, Chai, Jest, Protractor</li> <li>6. Container : Docker</li> <li>7. Bug Fix : Sonarlint</li> <li>8. CI : Gitlab</li> </ol>

## User Stories

1	As a user I should be able to register with the application so that I can login and use the functionalities of the application.
2	As a user, I should be able to login with my user name and password in order to access the functionalities of the application.
3	As a user, I should be able to login with my Gmail account in order to access the functionalities of the application.(Optional requirement)
4	As a user I should be able to search resources to view their details
5	As a user, I should be able to save resources to a wishlist/favourite so that I can access them later
6	As a user, I should be able to access items saved to my wishlist/favourite

Notes:

- The application should be based on microservices architecture
- API Gateway pattern should be implemented using Spring Cloud Gateway
- Services should register themselves with Eureka Service Discovery server.
- All layers of microservices should be covered with automated unit and integration tests
- All microservice endpoints should have API documentation

## High Level Architecture Diagram

