**Case Study – Java Full Stack**

**Store Item Setup**

|  |  |  |
| --- | --- | --- |
| **Part** | **Competency** | **Deliverables** |
| Backend Development | Spring Boot,  API, Database | SpringBoot, SpringREST, SpringJPA, Proper Handle Exception, PostgreSQL/MySQL, GIT Lab, Postman, Java 8/11. |
| Frontend Development | Angular | Angular (latest version), Prime ng (Angular library) |
| Cloud Deployment | Docker, Kubernetes, Azure | Deploy the backend application into Cloud. |

**Business Requirement**

There will be 3 main user stories required to be implemented covering the below use cases.

User

**`**

**Backend User Story 1**

|  |  |
| --- | --- |
| User Story Id | US\_01 |
| User Story Title | Create and Update Store |
| User Story Details | 1. As a user I will be able to create Store with the following details –   Store Number (Unique)  Store Name  Store Pattern (3character alpha numeric – a02)  Store Location (Name of the place)  State  Pin Code  Store Start date  Store End date   1. As a user I will be able to update the Store and Delete the Store |
| Acceptance Criteria | Rest APIs should be tested through Postman software. |

**Backend User Story 2**

|  |  |
| --- | --- |
| User Story Id | US\_02 |
| User Story Title | Create and Update Item for Store |
| User Story Details | 1. As a user I will be able to create Item for a Store with the following details –   One Item can be linked to multiple stores.  Create few Items for each of the stores.  Item Number (Unique)  Item Name  Item type (Example. Bakery, HotDrinks, ColdDrinks, Tobaco, Alcohol)  Store Name / Store Pattern where the item will be sold  Item Price  Item Start date (This will tell when the item will start to sell) (Unique)  Item End date (This will tell when the item will stop selling)  Supplier Name   1. As a user I will be able to update the Item and Delete the Item |
| Acceptance Criteria | Rest APIs should be tested through Postman software. |

**Backend User Story 3**

|  |  |
| --- | --- |
| User Story Id | US\_02 |
| User Story Title | Search Item |
| User Story Details | 1. As a user I will be able to Search Item based on Item Number or Item Name 2. After search Item should display the detail –   Item Number,  Item Name,  Price,  Start Date  End Date  Store in which the Item is Linked |
| Acceptance Criteria | Rest APIs should be tested through Postman software. |

**Frontend**

Develop front end screens using React JS and Bootstrap.

Write Unit Test case.

Compile, Build and Package the ReactJS frontend application in a single java script file.

Screens will look like –

Store

Store Number

Store Name

Store Pattern

Store Location

State

City

Store Opening time

Store Closing time

22:00

8:00

Bangaluru

Karnataka

Jaynagar

a02

Item

Item Number

Item Name

Item Type

Price

Store Pattern/Name

Start Date

End Date

31/08/2022

1/08/2022

a03-Jaynagar

3.00

03-Bakery

Search Item

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item Number | Item Name | Price | Start Date | End Date | Store |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Item Name

Item Number

**Cloud Deployment**

Create Docker file.

Install Docker in Cloud.

Deploy MySQL using docker

Deploy the application into AWS / Azure / Pivotal cloud.