Instructions For Java NewsApp Case Study.

Introduction

The following markdown instructions have to be read by each assessment applicant and it contains the following.

- Case Study Details.
- Prerequisites.
- Instructions for codecommit repository, MySQL DB, and ReactJS related instructions pertaining to the case study.
- Rest API, Selenium and general DONT'S instructions.

Case Study Details

The case study is to design a web application. The features to be implemented are

- `This News App has functionalities like read news, update news, add news, latest news, filter news and delate news.`
- `The news is categorized in to two categories namely`
    1. `National`
    2. `International`
- `It is also subcategorized into four subcategories namely`
    1. `Technology`
    2. `Business`
    3. `Entertainment`

Prerequisites

- OS - Windows or Linux
- IDE/Tools - Visual Studio Code 1.23.x or higher https://code.visualstudio.com/download, Eclipse Oxygen or higher https://www.eclipse.org/downloads/packages/release/oxygen
- MySQL WorkBench 6.3.x or higher https://dev.mysql.com/downloads/workbench/
- Database - Local MySQL 5.6.x or higher https://dev.mysql.com/downloads/windows/installer/8.0.html
- Java SE Development Kit 8 or higher Link is https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
- Node Package Manager version 5.6.x or higher https://nodejs.org/en/download/
- Apache Tomcat 8.5.29 version or higher https://tomcat.apache.org/download-80.cgi
- Browser [Chrome]

Getting Started with AWS Code Commit

- The Administrator will create a AWS Code Commit Account exclusively only with your empid for the case study.
- Instructions will be mailed with a welcome mail from administrator to every applicant detailing the AWS Code Commit Repository connection .
- AWS Code Commit is very similiar to GITHUB and once the CodeCommit basic security and configuration is done
- A complete Boiler Plate code will be available , the boiler plate includes Java Framework code , MYSQL sql files , ReactJS Base Code Base, RestAssured and Selenium Lib Jars/Wars which will be used for unit testing by the applicant.
- The applicant will have the code in the master branch of AWSCOde Commit with an unique repository created for each user apppended with EmpID (xxxxx) or token.
- Applicant should not create a branch from the master. work on the case study in the master branch , finally push the code to master and submit (More details are given subsequently)

Setting up Database in MySQL.

- The name of the database should be restdb_xxxxx. (Replace xxxxx with your employeeId).
- Run the MySQL dump files and import into MySQL as supplied in boiler plate codecommit code codebase
- Create a user with the username: user and password: password.
- Grant full rights on database restdb_xxxxx to the created user.
- Your MySQL should be running on only port 3306.
- Once the dump is successfully imported into new mysql schema say restdb_xxxxx.

Instructions for Java

- Do not delete anything from pom.xml as this affects the evaluation.
- Do not delete any XML's from the boilerplate code.
- Replace xxxxx with your employeeId in "restdb_xxxxx" in newsapp\src\main\java\com\hex\news\persistence\DbConnection.java
- Use 'mvn clean package' instead of 'mvn clean install'.
- The packaging should be a war, not a jar. The package will be news-app_xxxxx.war where xxxxx is empid of the applicant
- Follow checkstyle and pmd rules for code-quality.
- war should be deployed in tomcat as news-app_xxxxx. (Replace xxxxx with your employeeId).
- tomcat should run on port 8080

Instructions for creating REST API.

API Component (/api/news **):**

The API response should be:


```
[
    {
        "id": 5,
        "author": "Ro",
        "description": "Because Samsung keeps its Infinity-O panels for
itself.",
        "date": null,
        "category": "International",
        "subcategory": "Technology",
        "title": "Huawei P30 Pro to come with a notch and curved display
- GSMArena.com news - GSMArena.com"
    }
]
```


Implement the necessary post, **“get, get by id, put by id, delete by id,post by id”** in the Jersey controller.

Instructions for Angular

NOTE: The candidate will not be evaluated based on the UI design (layout, color, formatting, and so on). The candidate is free to have a basic UI with all the required UI components (input fields, buttons, labels, and so on).

The UI wireframes with the required layouts are as follows:

Fig 1: Home Page

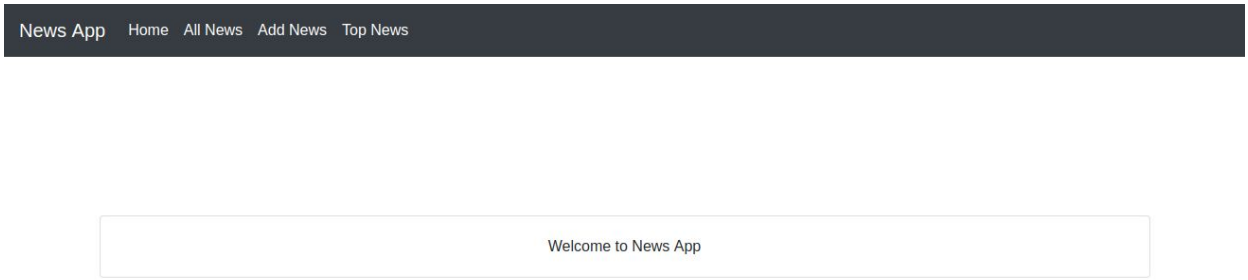


Fig 2: Add News Page

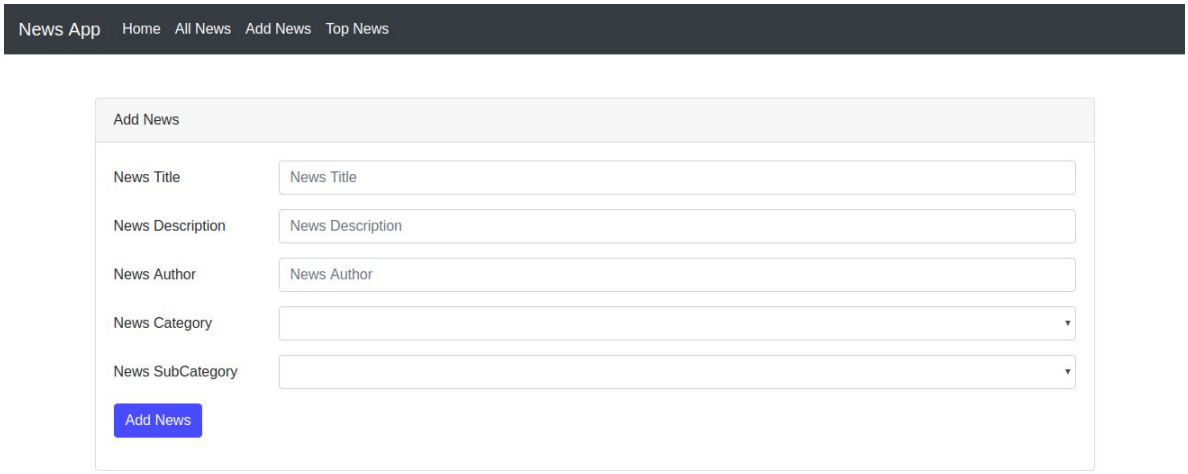


Fig 3: All News and Search Page

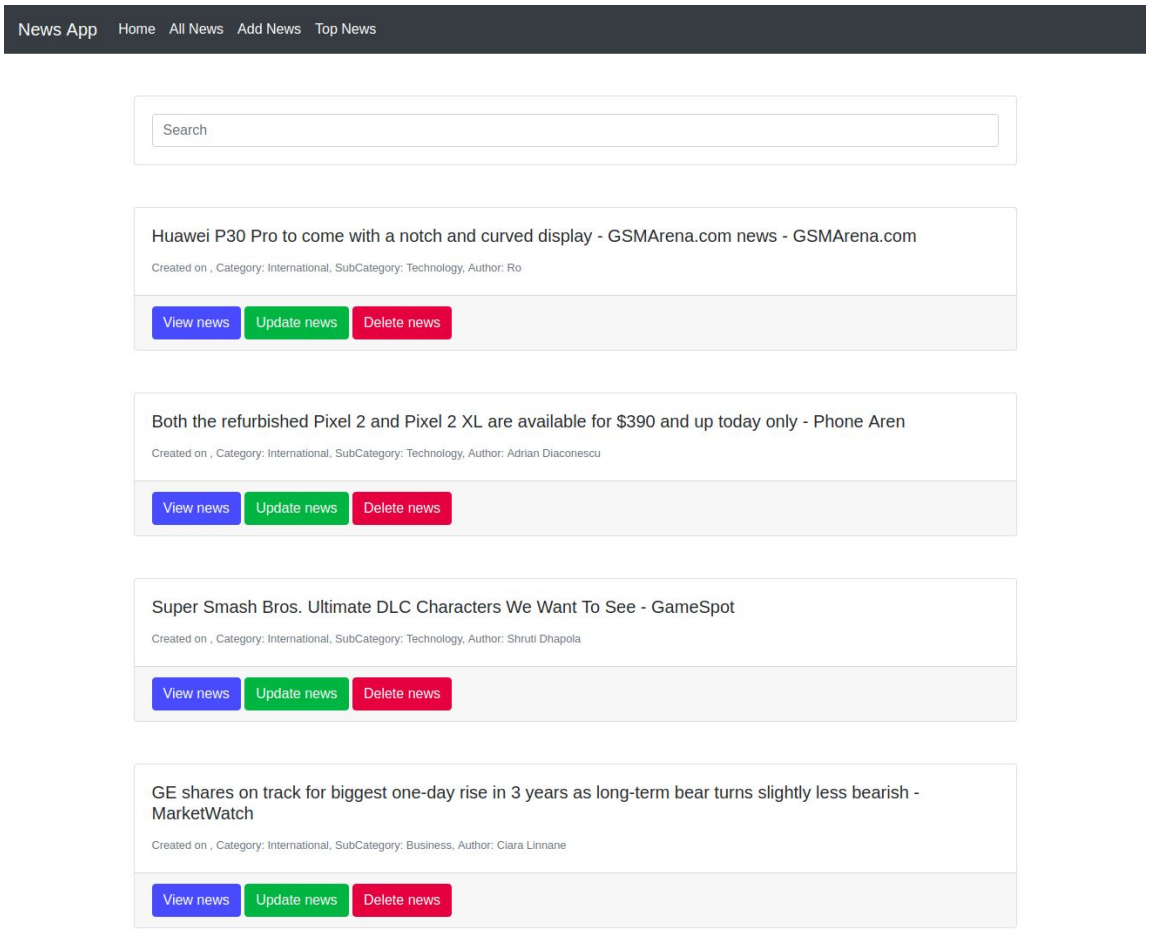


Fig 4: View News Page

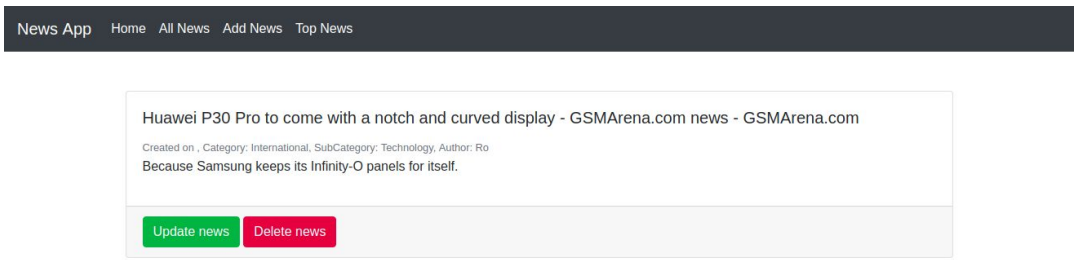


Fig 5: Update News Page

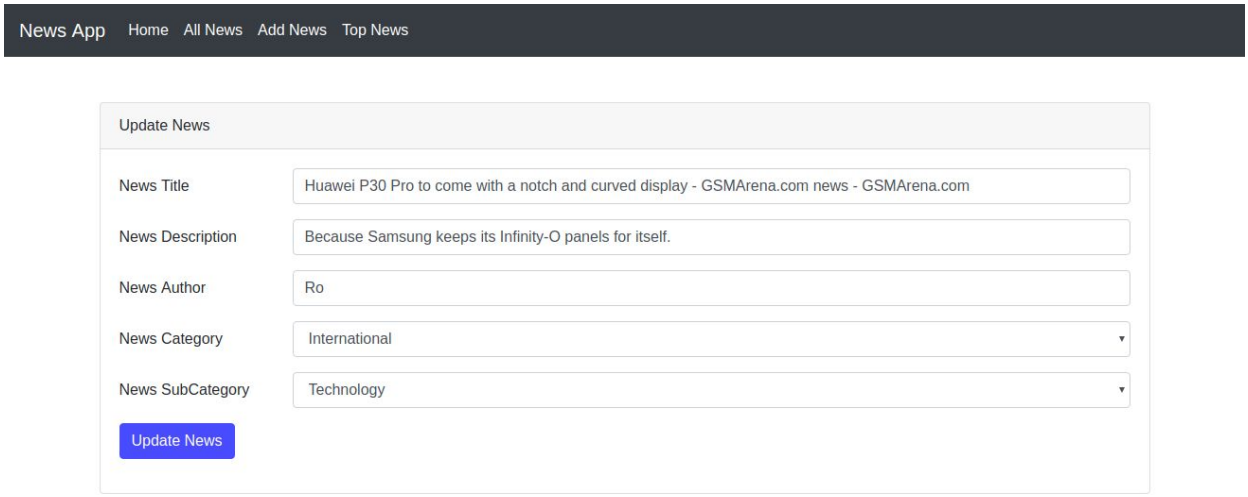
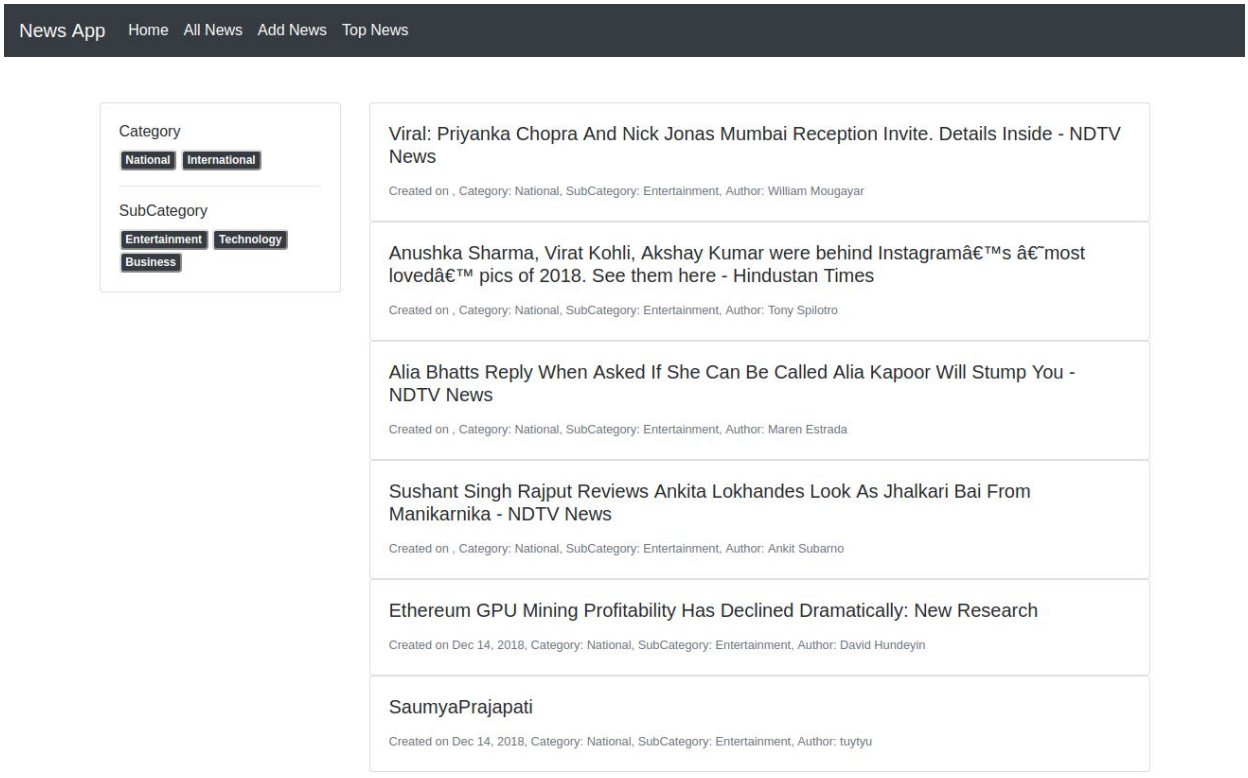


Fig 6: Top News Page



UI Design

i. The site contains six pages i.e., **home page**, **add news page**, **view news page**, **update news page**, **search page** and **Top News Page**.

ii. **Home page** is already built for you.

iii. You need to build the features in the **Add News page**, the **View News page**, the **Update News page** ,**All News page** and the **Top News Page**.

Required things to be done for **Add News Page**

- User should be able to add the **News** to the database after clicking the Add button. Once the Add button is clicked "**News** Added Successfully" should be displayed on the screen. Please Refer Fig 2.

Required things to be done for **All News Page**

- On clicking the All **News** it should display all the **News** present in the database. with a view, update and delete button. Please Refer Fig 2.
- Also on clicking the search bar if you type **News** name that **News** should be displayed. Please refer Fig 3.

Required things to be done for **View News Page**

- Details about that **News** shud be displayed. Refer Fig 4.

Required things to be done for **Update News Page**

- Refer Fig 5, after clicking on the update it should reflect the data present in the database.

Required things to be done for **Top News Page**

- Top 3 news for Category and Subcategory field buttons clicked should be displayed. Refer Fig 6.
- Top 3: It will be fetching the first 3 news for both the filters added in the database.

1. API endpoint should be news-app_xxxxx. Check this before submitting.
2. Replace xxxxx with your emplyeeId in BASE_URLS.ts file.
3. Replacing code or deleting the html files will result in failure of evaluation.
4. Write code only where todo is mentioned.
5. Do not modify or delete package.json.
6. 'ng build' the angular application and host it in tomcat instead of 'ng serve'

DON'TS

- Do not remove EmployeeDetails.Json file or do not modify it.
- Do not make any changes in the Submit.sh file.
- Make sure you pushed the code into master from the branch before submitting the test.
- The test can be submitted only once. So, do not click Submit.sh until you wish to submit finally the test.
- In the event of you realizing the submission has to happen again, please contact your test administrator. This is not encouraged
- Prior to submitting by clicking submit.sh make sure both the java code and ReactJS code is done with a clean build and complete checkin all the code.
- Prior to submitting with the click of submit.sh clean the compiled code and only submit the end.
- If you have required any clarifications only approach the test administrator for more clarifications
- Tests are auto evaluated and it is mandatory to follow instructions so naming convention of DB schema, rest API conventions, ReactJS application parameters are all mandatory.