

# Instructions For .Net NewsApp Case Study.

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## Introduction

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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, MSSQL DB, and Angular related instructions pertaining to the case study.
- Rest API, Selenium and general DONT'S instructions.

## Case Study Details

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**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 delete 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 10.1
- IDE/Tools - Visual Studio, Visual Studio Code, Postman, MSSQL Express, MSSQL Server Management Studio
- Database - MSSQL
- Node Package Manager
- Nuget
- IIS server 10
- Browser [Chrome](#)
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## Getting Started with AWS Code Commit

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- 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 , MSSQL sql files , Angular 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 appended 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 MSSQL.

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- The name of the database should be restdb\_xxxxx. (Replace xxxxx with your employeeid).
- In Codebase you will be provided with MSSQL dump file restdb.sql in which you have to replace xxxxx with your employeeid
- Run the MSSQL dump files and import into MSSQL as supplied in boiler plate codecommit codebase
- Use the credentials given by Administrator/Hexaversity.
- Once the dump is successfully imported into new MSSQL schema say restdb\_xxxxx you can find a table named 'dbo.news'.

## Instructions for .Net

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- In webconfig.cs please modify, In the connection string change data source = "Your Sql Server Name " and initial catalog = "restdb\_xxxxx"(where xxxxx is your employee id ).
- Please verify database connection string in web.config is:

```
(DataSource=localhost\SQLEXPRESS;)  
(Initial Catalog=restdb_xxxxx(xxxx is employee id);)  
(user ID = localhost;)  
(Password=localhost;)
```

Use given connection details given by hexaversity initially but while submitting the code the connection string has to be changed to as mentioned above

- Do not delete/modify anything from webconfig.cs except to above changes as this affects the evaluation.
- Deploy your sln as an application to IIS server using Visual Studio.
- Follow standard sonarqube rules for code quality.
- Application should be deployed in IIS as newsapp\_xxxxx. (Replace xxxxx with your employeeid).

While deploying the solution to IIS server of Visual Studio of the port no will be different so while submitting the final code kindly change the port no in code to **80**.

# Instructions for creating REST API.

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## 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 apis, “**get, get by id, put by id, delete by id,post by id**” in the controller. And an additional api (**`/api/latestnews`**) which is similar to get but should give response as the all news but in descending order as per date and time.

While you are deploying using visual studio the api will be like (`localhost:{port no}/api/news`).

So use api as above while development.

But when the application is being evaluated the api will be like (`localhost:80/newsapp_xxxx/api/news`)

So while submitting the code change apis in angular as mentioned above.

# Instructions for Angular

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**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

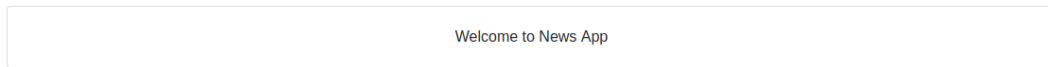


Fig 2: Add News Page

News AppHomeAll NewsAdd NewsTop News

Add News

News Title

News Title

News Description

News Description

News Author

News Author

News Category

News SubCategory

Add News

Fig 3: All News and Search Page

News AppHomeAll NewsAdd NewsTop News

Search

Huawei P30 Pro to come with a notch and curved display - GSMArena.com news - GSMArena.com

Created on , Category: International, SubCategory: Technology, Author: Ro

View news

Update news

Delete news

Both the refurbished Pixel 2 and Pixel 2 XL are available for \$390 and up today only - Phone Aren

Created on , Category: International, SubCategory: Technology, Author: Adrian Diaconescu

View news

Update news

Delete news

Super Smash Bros. Ultimate DLC Characters We Want To See - GameSpot

Created on , Category: International, SubCategory: Technology, Author: Shruti Dhapola

View news

Update news

Delete news

GE shares on track for biggest one-day rise in 3 years as long-term bear turns slightly less bearish - MarketWatch

Created on , Category: International, SubCategory: Business, Author: Ciara Linnane

View news

Update news

Delete news

Fig 4: View News Page

[News App](#) [Home](#) [All News](#) [Add News](#) [Top News](#)

Huawei P30 Pro to come with a notch and curved display - GSMArena.com news - GSMArena.com

Created on , Category: International, SubCategory: Technology, Author: Ro

Because Samsung keeps its Infinity-O panels for itself.

Update news

Delete news

Fig 5: Update News Page

[News App](#) [Home](#) [All News](#) [Add News](#) [Top News](#)

Update News

News Title

Huawei P30 Pro to come with a notch and curved display - GSMArena.com news - GSMArena.com

News Description

Because Samsung keeps its Infinity-O panels for itself.

News Author

Ro

News Category

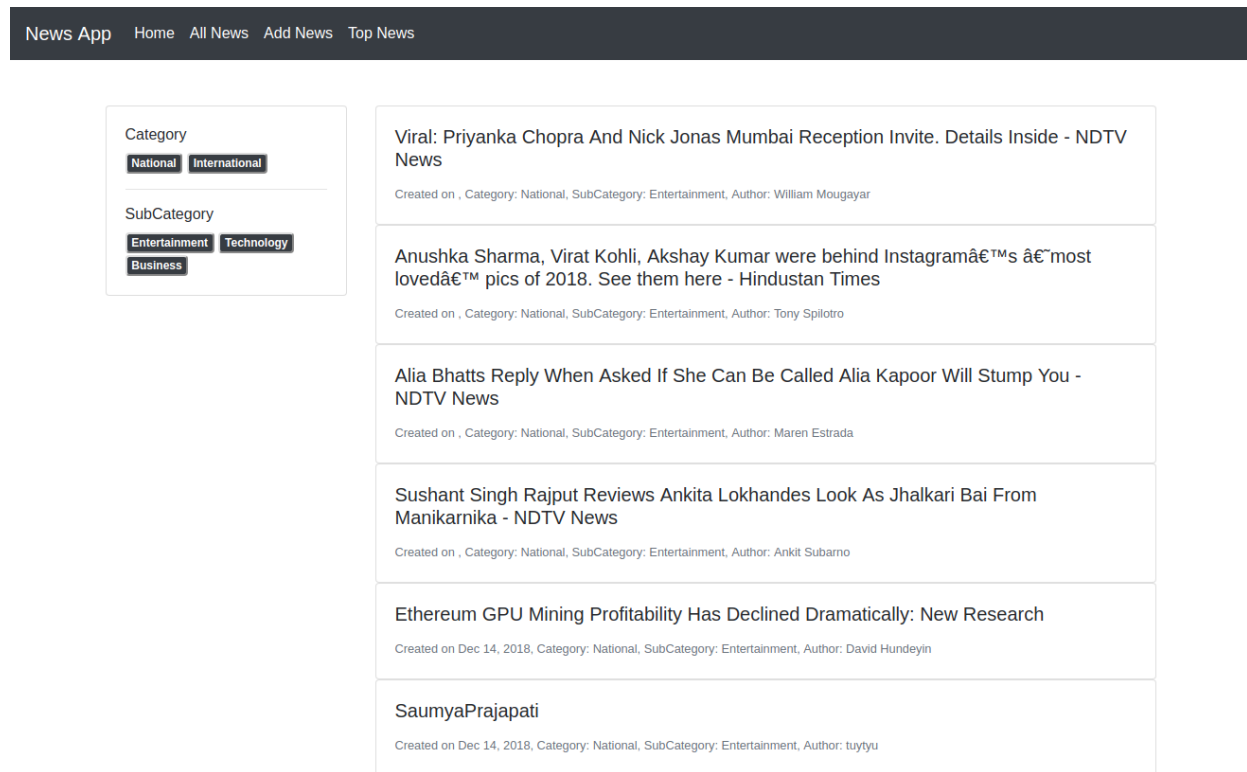
International

News SubCategory

Technology

Update News

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 newsapp\_xxxxx. Check this before submitting.
2. Replace xxxxx with your employeeid 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.

## DON'TS

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- 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 Angular 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, Angular application parameters are all mandatory.