Date: May. 15, 2020 Time Allowed: 120 Min



THE SUPERIOR COLLEGE LAHORE

Final Term Exam (RA-2020)

Subject: Adv. Web Application Development **Resource Person:** Mr. Hafiz Muhammad Sohaib

Department: CS & IT

Name:	
Roll No:	
Instructor:	

Instructions:

- 1. No cutting or overwriting is allowed.
- 2. Use of mobile phone is strictly prohibited
- 3. No extra time will be given
- 4. Time Allow: 120 Minutes
- 5. Material Copied from Internet will not acceptable

Question 01: Write down AngularCli Commands in sequence to develop following application according to structure.

(15)

- > Angular CLI to Create New Application
- Angular CLI commands for Application Components & Services
- > How many components, sub-components, services and model classes in this application?
- Write a command to run application on localhost port: 4200

```
▶ | -- app
      |-- about
          |-- about.component.html
          |-- about.component.css
> |
          |-- about.component.spec.ts
          `-- about.component.ts
> |
      |-- app-routing.module.ts
      |-- app.component.html
> |
      |-- app.component.css
      |-- app.component.spec.ts
> |
      |-- app.component.ts
> |
      |-- app.module.ts
> |
      |-- articles
> |
          |-- article-details
> |
              |-- article-details.component.html
> |
              |-- article-details.component.css
              |-- article-details.component.spec.ts
```

```
`-- article-details.component.ts
> |
          |-- articles
>
              |-- articles.component.html
              |-- articles.component.css
>
              |-- articles.component.spec.ts
> |
> |
              `-- articles.component.ts
          |-- articles-routing.module.ts
> |
          `-- articles.module.ts
> |
> |
      -- home
> |
          |-- home.component.html
          |-- home.component.css
> |
> |
          |-- home.component.spec.ts
          `-- home.component.ts
> |
      |-- page-not-found
>
          |-- page-not-found.component.html
>
          |-- page-not-found.component.css
> |
          |-- page-not-found.component.spec.ts
>
          `-- page-not-found.component.ts
>
      |-- privacy
> |
          |-- privacy.component.html
>
          |-- privacy.component.css
|-- privacy.component.spec.ts
> |
          `-- privacy.component.ts
> |
      -- products
          |-- product-details
> |
              |-- product-details.component.html
> |
> |
              |-- product-details.component.css
>
              |-- product-details.component.spec.ts
> |
              `-- product-details.component.ts
> |
          |-- products
> |
              |-- products.component.html
> |
              |-- products.component.css
> |
              |-- products.component.spec.ts
>
              `-- products.component.ts
          |-- products-routing.module.ts
          `-- products.module.ts
> |
      `-- terms
          |-- terms.component.html
>
> |
          |-- terms.component.css
>
          |-- terms.component.spec.ts
>
          `-- terms.component.ts
▶ | -- assets
```

(05)

```
> | -- environments
> | | -- environment.prod.ts
> | `-- environment.ts
> | -- shared
> | | -- products.service.ts
> | | -- products.model.ts
> | | -- articles.service.ts
> | | | -- articles.model.ts
> | | -- favicon.ico
> | -- index.html
> | -- main.ts
> | -- polyfills.ts
> | -- styles.css
> `-- test.ts
```

Question 02: Write down the HTML Form for the saving product information.

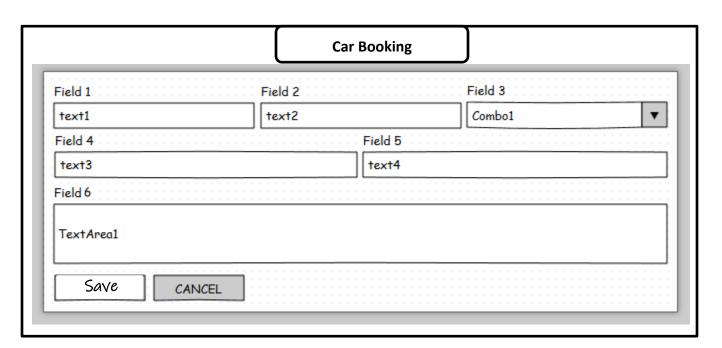


Figure - 1

Question 03: Write down the only Client-Side Script for Figure-1 to save order information into

Web SQL named "MyOrderDB" and Table named "Orders". (Total = 10)

- → Create sperate database & Table if Not Exist in **WebSQL** (4)
- → Write JS script to Insert Data into the Table named "Orders". (3)
- → On Click "Cancel" Button Delete all items from "Orders" table of WebSQL (3)

Question 04: Write down the only HTML code for the below Table .

(03)

My Multi Level Table					
Column 0		Column 1	Column 2		
			Column 2a	Column 2b	
Row 1	Row la	123	456	789	
	Row 1b	123	456	789	
Row 2		123	456	789	

Question 05: What is Difference between GraphQL and Rest APIs with real time example? (04)

Question 06: Explain SPA architecture with example? (03)