

1. Create an angular project. Understand the project structure and configuration files in the angular project. Bootstrap the angular application created.
2. Create a component with some sample data. Bind the data to the template. Run the Angular application.
3. Create a ProductComponent which has an array of Product objects. Bind the product array to the template as follows.

Product Code	Product Description	UnitPrice	Quantity	Category	Manufacturer
P01	PEN	50	100	Stationary	Nataraj Stationaries
P02	PENCIL	10	100	Stationary	Nataraj Stationaries
P03	ERASER	5	100	Stationary	Nataraj Stationaries
P04	PEPSI	35	100	Bevarages	Pepsi Co.
P05	COKE	35	100	Beverages	Coca Cola Co.
P10	7Up	35	100	Beverages	Pepsi Co.

4. Design the following angular template. When you choose a category from the template, filter the product catalog table to show only those category of products.  
[Use the above component class.]

## Product Catalog

Choose Category : Stationary ▼

Productid	ProductName	UnitPrice	Quantity	Category	Manufacturer
P01	PEN	50	100	Stationary	Nataraj Stationaries
P02	PENCIL	10	100	Stationary	Nataraj Stationaries
P03	ERASER	5	100	Stationary	Nataraj Stationaries

5. Create an EmployeeComponent which has an array of Employee objects. Bind the employee array to the template as follows. Use built-in pipes to format the display.

## Employees List

EmployeeId	Employee Name	Salary	JoinDate	Department	Designation	Grading
E001	Ravi Kumar	₹45,000.00	23-11-1998	TRAINING	trainer	5.00
E002	Ramesh Kumar	₹45,000.00	28-06-2019	TRAINING	trainer	4.00
E003	Ajay Varma	₹35,000.00	23-11-2008	TESTING	tester	3.00
E004	Kiran Reddy	₹35,000.00	28-06-2019	TESTING	tester	5.00
E005	Gopi Krishna	₹55,000.00	23-11-2017	PROJECTS	programmer	4.00

6. Design the following angular template. Create a custom pipe to filter the products based on minPrice and maxPrice. Use the ProductComponent created in question-2.

### Filtered Products

Min Price  Max Price

Product Code	Product Description	UnitPrice	Quantity	Category	Manufacturer
P01	PEN	50	100	Stationary	Nataraj Stationaries
P02	PENCIL	10	100	Stationary	Nataraj Stationaries
P03	ERASER	5	100	Stationary	Nataraj Stationaries
P04	PEPSI	35	100	Bevarages	Pepsi Co.
P05	COKE	35	100	Beverages	Coca Cola Co.
P10	7Up	35	100	Beverages	Pepsi Co.

7. Create Template Driven Form to the template as follows and Implement validation and create custom Directive to perform email Domain validation

### Job Seekers Application

First Name

Last Name

Email

#### Address Details

Line 1

Line 2

City

State

Postal/ Zip Code

Country

State Of Resident

Phone Number

Alternate Number

#### JOB Details

Position For Which Applying For?

If Other, Kindly Specify

Preferred Working Mode

Have you previously worked with us?

If so, when?

mm / dd / yyyy

#### Upload Your CV

Upload

Browse...

No file selected.

Submit Query

Clear

8. Create Reactive form for the template mentioned in the above question. Implement required validations and custom validator functions . Implement Dynamic control to add extra address/contact Nos dynamically.

9. Below are the fake Online REST API for Testing and Prototyping of sample applications which are using REST call to display listing and CRUD features.[Internet access required]

Method	Type	Full route	Description
GET	JSON	<a href="http://dummy.restapiexample.com/api/v1/employees">http://dummy.restapiexample.com/api/v1/employees</a>	Get all employee data
GET	JSON	<a href="http://dummy.restapiexample.com/api/v1/employee/1">http://dummy.restapiexample.com/api/v1/employee/1</a>	Get a single employee data
POST	JSON	<a href="http://dummy.restapiexample.com/api/v1/create">http://dummy.restapiexample.com/api/v1/create</a>	Create new record in database
PUT	JSON	<a href="http://dummy.restapiexample.com/api/v1/update/21">http://dummy.restapiexample.com/api/v1/update/21</a>	Update an employee record
DELETE	JSON	<a href="http://dummy.restapiexample.com/api/v1/update/2">http://dummy.restapiexample.com/api/v1/update/2</a>	Delete an employee record

- Create a component for employee input form.[id, employee\_name, employee\_salary, employee\_age, profile\_image]
- Validate the employee form and save the employee record using custom service and REST API.
- Design a search screen, with employee\_id as the search field. Use the fake REST API for fetching employee records.
- End users can edit or delete employee records upon successful search. Use the respective fake online REST API provided above.
- List all employees in a table format.

10. Design a Parent and child component as per the below requirement. Use sample hard coded data.

Parent component -> Displays the sales representative (code & name) as above.

Child component -> When you choose a sales representative in parent component, child component should display all the orders under his account.

### Choose Sales Representative

☐ S01  
Allwin Fernades

☒ S02  
Mario Samuel

☐ S03  
Venil Elavarasan

☐ S04  
Gopi Elavarasan

### Sales Orders

Order ID	Order Date	SalesRep Id
OR002	07/10/2018	S02
OR006	07/10/2018	S02
OR007	07/11/2018	S02
OR008	07/11/2018	S02
OR011	07/11/2018	S02
OR012	07/12/2018	S02

11. Design the following screen to dynamically load Skill component and Project History component.[Use dummy data in an array]

- User choose employee id, and his details will be printed as below.
- Upon clicking ViewSkill – dynamically load Skill component.
- Upon clicking Project History– dynamically load Project History component.

## Dynamic Component Loading - Demo

Choose Employee : 12355 ▾

Employee Name	Anish Kumar	Designation	Lead-Trainer
Joindate	12-07-2019	Location	Chennai

[View Skill](#)[Project History](#)

### Skill Set of #12355

Skill Desc	Skill Type	Year of Exp
Java	Primary	10
Spring Framework	Primary	8
Bigdata	Primary	3
Python	Secondary	3
Selenium	Secondary	5
Angular	Primary	4
Cloud Computing	Secondary	1

12. Implement routing path and routing guards.