HOL-#03

Q1. Create a new Angular application by name 'cust-comps'

Open the application in VS Code.
Run your application and record your observation.

Q2. We want to have an UI which will display the following text:

"Custom Components and Directives" using 'h1' element in RED color.

Check the change!

Q3. You next mini challenge is to add another component by name - hello-user

Observe the 'selector' for the 'hello-user' component.

Now, render the 'hello-user' component in your app.

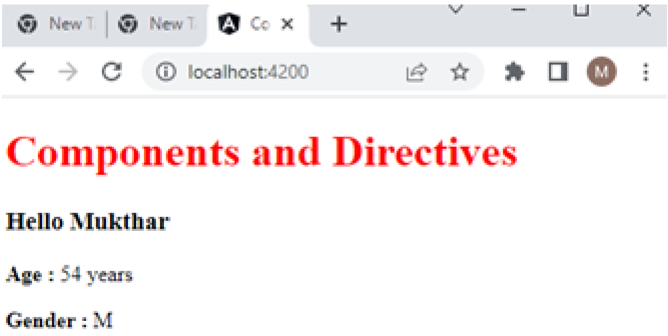
We want a user name, age and gender properties to be used by this component.

Make appropriate changes in the class which has properties for the same.

Initialize the instance in the constructor with your name, age and gender.

Perform data binding, such that the 'hello-user' display the user name preceded by 'Hello <user_name>' in 'h3' element followed by user age and gender in 'p' elements.

Your web-browser should look some thing like this.



Components and Directives

Hello Mukthar

Age : 54 years

Gender : M

Q4. Add yet another component by name 'user-item'

Include a property name and initialize it with your name.

Moreover the UI should display "Hello <name>" in 'h2' element.

Save your files and check!

We now want the 'hello-user' component to be removed. To do this.

just comment the appropriate selector tag in the app component UI

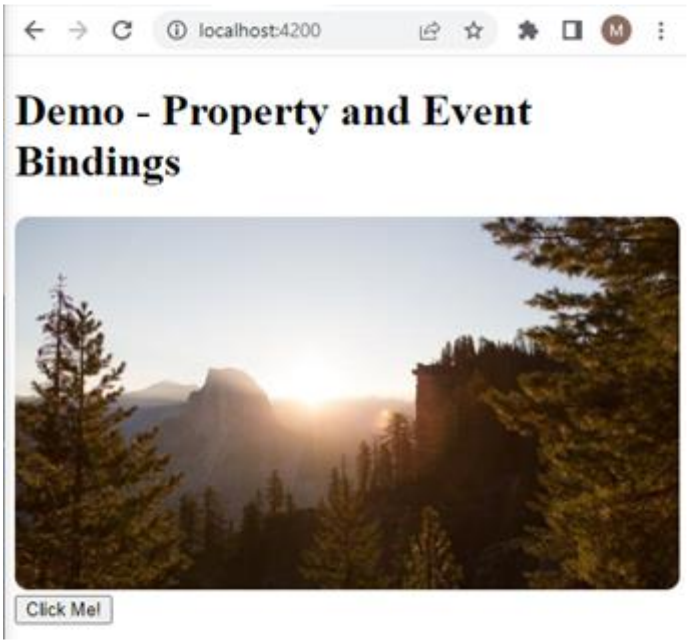
Save your files and check!

Q5. You next challenge is to have a class property by name `imgUrl` of type string and initialized with the Following URL:

Use the above URL which is available to `imgUrl` and perform Property Binding and render the image.

Change some image style and record your observation.

You web-browser should look as shown below:

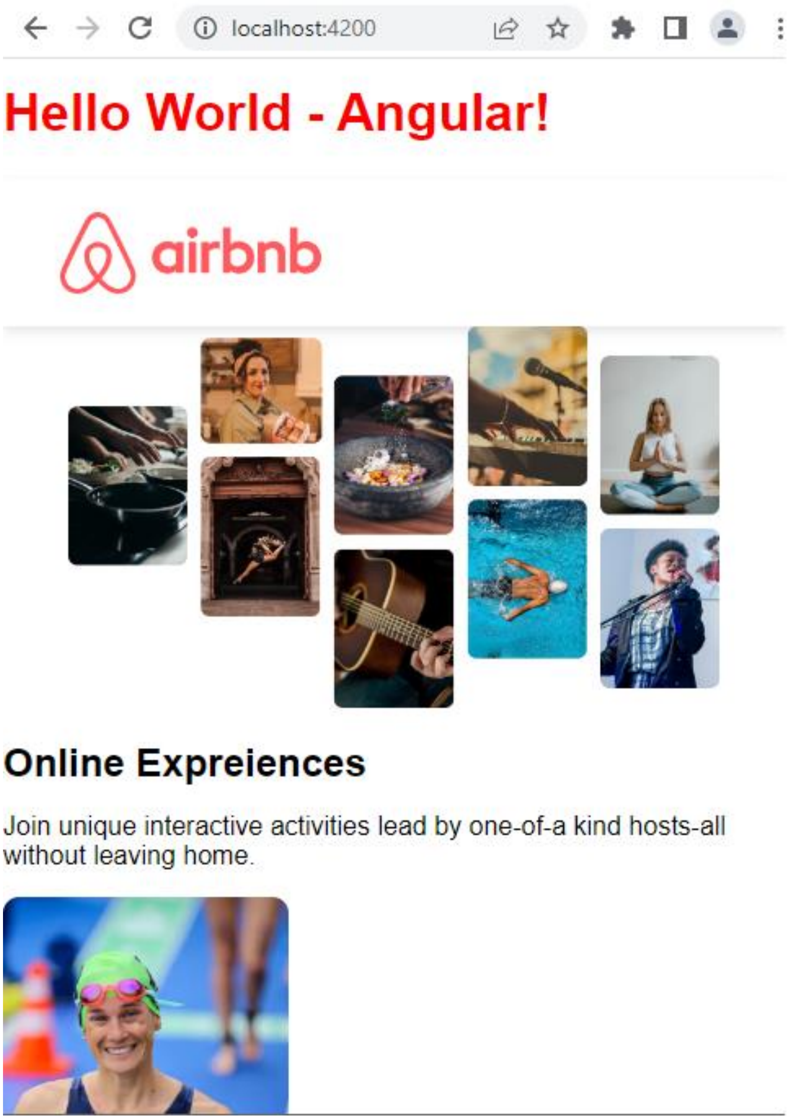


Demo - Property and Event Bindings

Q6. Add functionality to the ‘Click Me!’ button so that an alert with ‘Event Binding happening...’ is Displayed.

Check the functionality of the click event of the button.

Q7. Your next challenge is to create the ‘airbnb’ application which should look as shown below:



Hello World - Angular!

Online Expreiences

Join unique interactive activities lead by one-of-a kind hosts-all without leaving home.

The above screen has the following custom components:
- The nav-bar component
- The hero component
- The card component

The required images and styles are already provided to you.

Q8
Create an 'ecomm' new application.

- Copy the given 'index.html' and 'style.css' files to 'src'
- In the app component template, display 'eCommerce' with 'h1' element.
- Start your app.

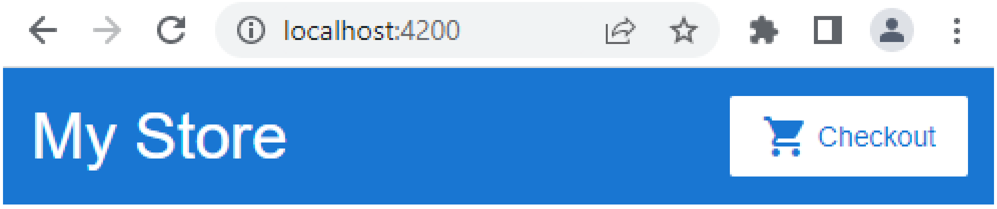
- Check you web-browser

Q9
Create a 'top-bar' component
- This will have an 'h1' element with text 'My Store'

- A link with class="button fancy-button"
  = Icon class="material-icons"
  = Hotspot as 'Checkout'

```
<a class="button fancy-button">
      <i class="material-icons">shopping_cart</i>
      Checkout
</a>
```

You web-browser should look as shown below:



Q10
Create a component by name ‘product-list’

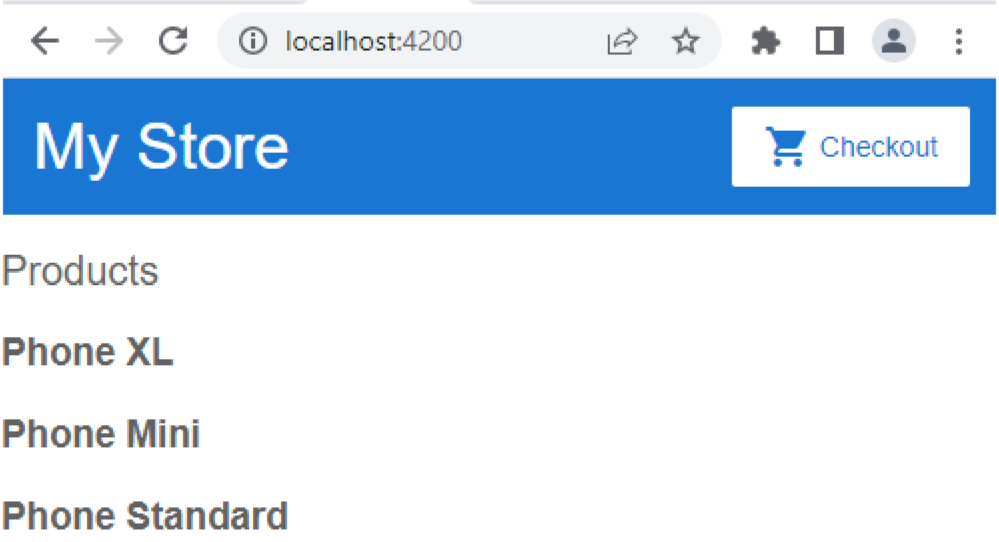
- Import the ‘products’ from the ‘products.ts’ file
- Create a ‘products’ instance in the class and assign it with the products.

Make sure all the products are taken into account.

- Using appropriate directive render the ‘product.name’ with ‘h3’ element using the ‘products’ instance.

The product-list component pane should update to display the names of each product in the list.

You web-browser should look as shown below:



My Store

Products

Phone XL

Phone Mini

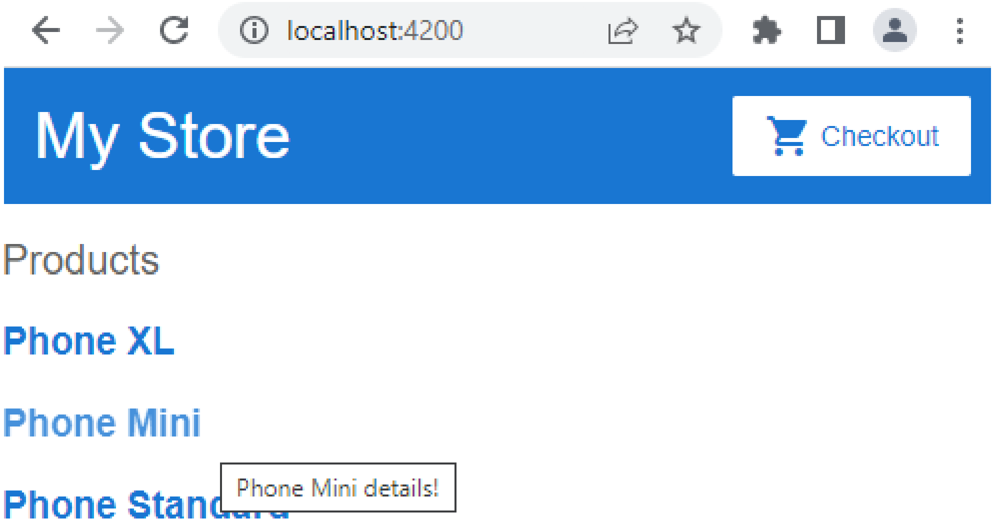
Phone Standard

Q11.
Your next challenge!

To make each product name to link to product details add an <a> element around the 'product.name'

- Set the 'title' to be product's name using the property binding syntax.

- Now, when you move your mouse over the product's name a tip as shown below should be displayed.



My Store

Products

Phone XL

Phone Mini

Phone Standard

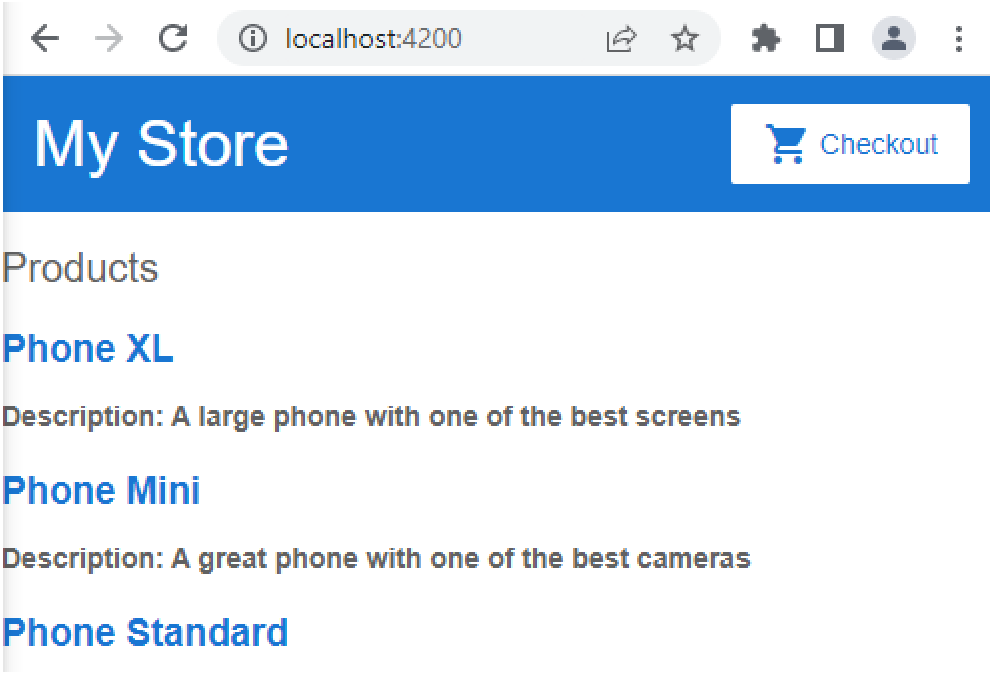
Phone Mini details!

- Add the product descriptions with <p> element

Moreover, Angular should only create the <p> element if the current product has a description.

Use appropriate directive.

Your web-browser should now look as shown below:



My Store

Products

Phone XL

Description: A large phone with one of the best screens

Phone Mini

Description: A great phone with one of the best cameras

Phone Standard

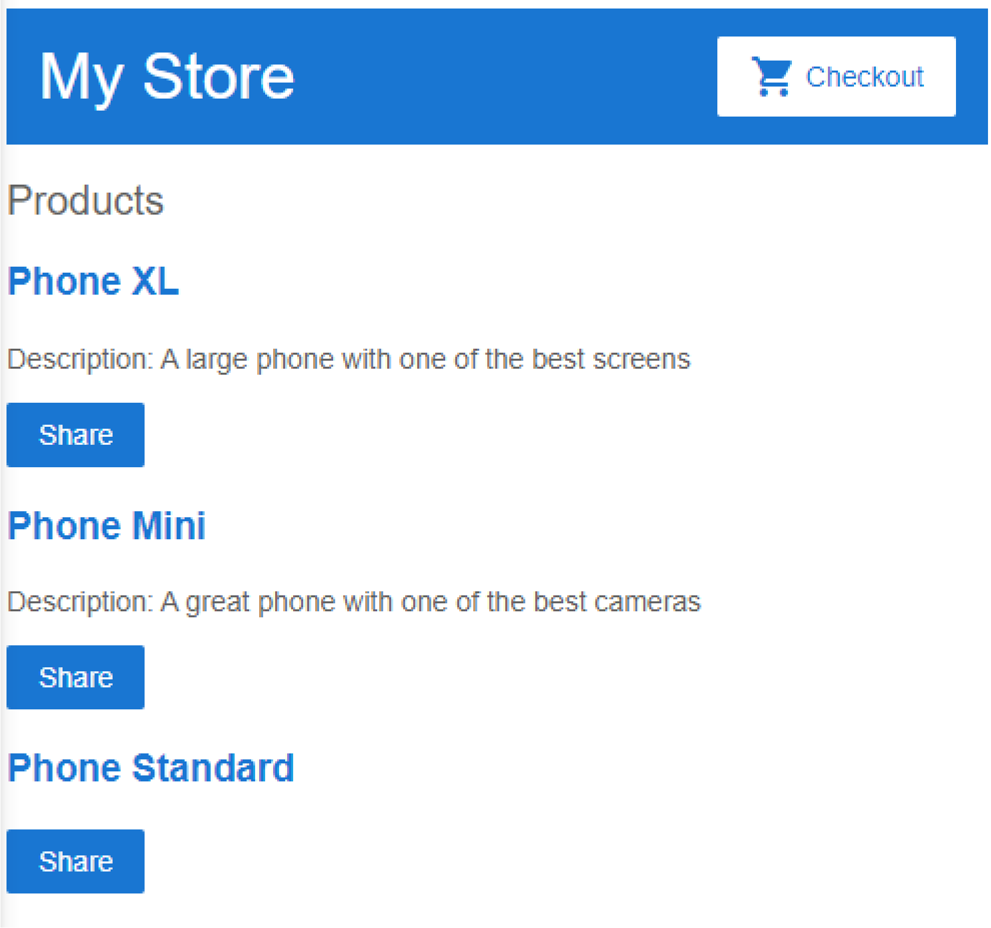
Q12. Your next challenge!
Add a button so the user can share the product.

- Bind the button’s “click” event to the ‘share()’ method in the product-list component

- Clicking the “Share” button triggers an alert that states: “The product has been shared!”

- Check the functionality of the button

Your web-browser should now look as shown below:



Products

Phone XL

Description: A large phone with one of the best screens

Phone Mini

Description: A great phone with one of the best cameras

Phone Standard

Recap
Write down what all did you learn during this HOL.