Brief introduction to Angular and Ionic

ESE 2019 Exercise getting started

My Shopping Bag (3)

Total: $61.92

Ruby on Rails Tote $15.99

Size: L   Qty: 1

Sold by: Proleague

REMOVE   MOVE TO WISHLIST

Spree Jr. Spaghetti $19.99

Size: L   Qty: 1

Sold by: Proleague

REMOVE   MOVE TO WISHLIST

Spree Bag $22.99

Size: L   Qty: 1

Sold by: Proleague

REMOVE   MOVE TO WISHLIST

OPTIONS

Coupons   Apply Coupon

Gift wrap for $1
Cash/Card On Delivery not available

PRICE DETAILS

Bag Total $61.92

Coupon Discount   Apply Coupon

Delivery   FREE

Order Total   **$61.92**

PLACE ORDER

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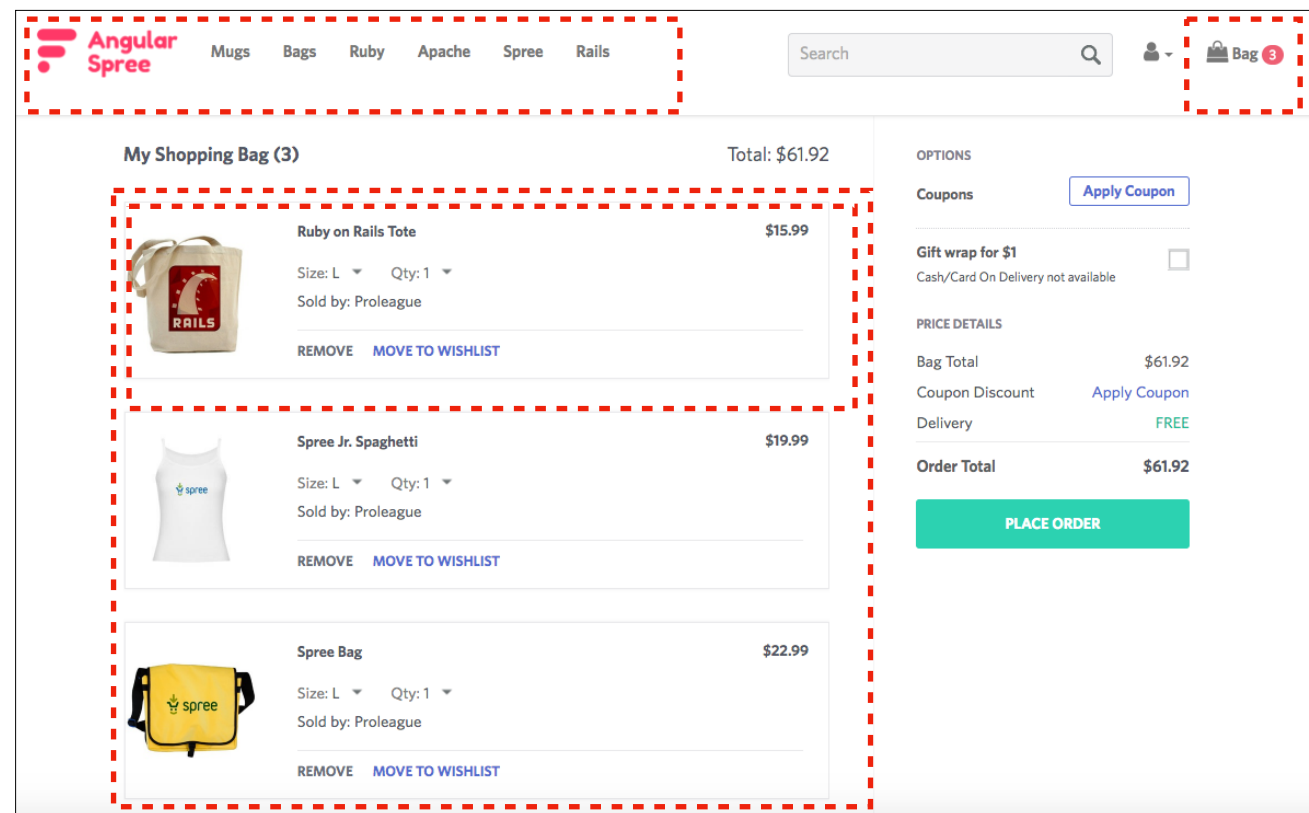**Gift wrap for $1**
Cash/Card On Delivery not available

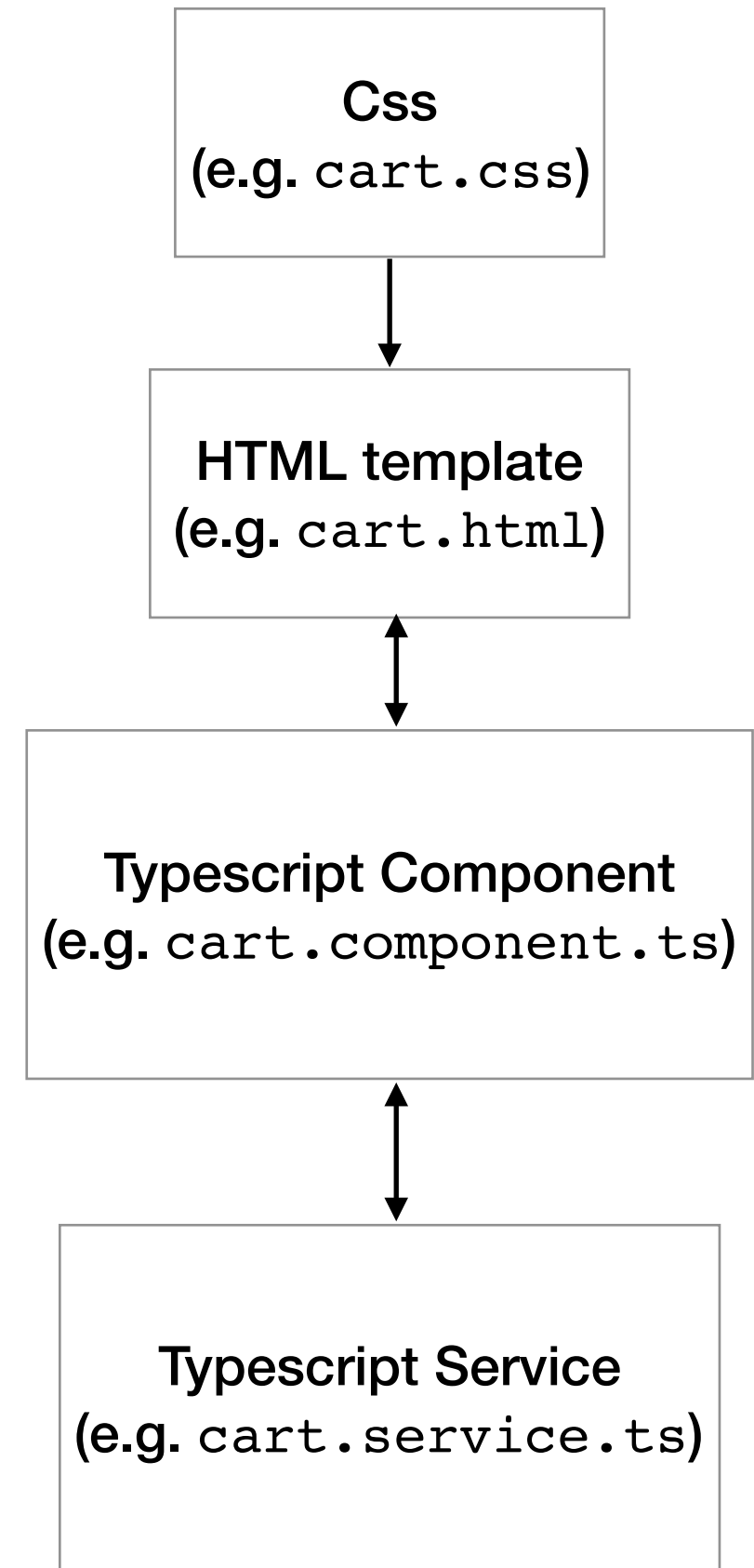**PRICE DETAILS**

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Delivery   FREE

Order Total   **$61.92**

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- Portions of the screen that exhibit certain behaviour are called '*components'* in Angular

- One can define as many components as he/she wants, there are no rules

- Example components in an e-commerce application would be *cart, navigation, product details, product list* etc.

- Components are reusable, they can be reused within the same application or even in another application

- A component in Angular v.8 using CLI (command line interface) is created by running the command `ng generate component <component name>`

- A component folder created will typically include an HTML file (template), a css file, a typescript file for the component business logic, and user can create another typescript file for a service in that folder

- Template displays the text and data passed on by corresponding component file

- A component file receives or sends data to a service, and processes the data received from service before forwarding it to a template. The process is called data binding

- A service handles the logic that is not related to the UI such as backend interaction, it saves and retrieves data from the backend

```
Css
(e.g. cart.css)
```

↓

```
HTML template
(e.g. cart.html)
```

↕

```
Typescript Component
(e.g. cart.component.ts)
```

↕

```
Typescript Service
(e.g. cart.service.ts)
```

- Ionic uses Angular but additionally provides UI components designed for mobiles

- Hence, component , service and other files remain same, only HTML part changes

Demo