**LWC Bundles /Components -**

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| **Name** | **Description** |
| availableProducts | Used to show all active products where Pricebook entry is related with current order. |
| orderProducts | Used to show Order Products information for a particular order. Confirm Order button will submit the order to external system with necessary information and update the Order status to “Activated” on success else it will show the proper error message to end user. |

**Apex Classes -**

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| **Class Name** | **Description** |
| AvailableProductsController | Controller class of availableProducts lwc component, used to pull available Products based on Order’s PriceBook. On “Add Products” action new Order Products will get created under the same order if not present already else will update the quantity and price in the existing Order Items. |
| AvailableProductsControllerTest | Test class for AvailableProductsController |
| ConfirmOrderController | Helper class for order submission to external system and update the Order status to “Activated” on success else will return proper error message for end user. |
| ConfirmOrderControllerTest | Test class for ConfirmOrderController |
| ErrorMockHttpResponseGenerator | Mock test class to cover negative callouts logic as it is not allowed to call webservices from test methods. |
| HttpUtility | Utility class for callouts to external systems. |
| OrderMockHttpResponseGenerator | Mock test class to cover positive callouts logic as it is not allowed to call webservices from test methods. |
| OrderProductsController | Controller class of orderProducts lwc component used to get Order Products information based on given order Id. |
| OrderProductsControllerTest | Test class for OrderProductsController |
| TestClassHelper | Helper class which contains reusable methods for generating test data. |

**Lightning Message Service -**

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| **Name** | **Description** |
| OrderProduct.messageChannel-meta.xml | Used to communicate between availableProducts and orderProducts lwc components. This is used to update Order Products table realtime without refreshing whole page. |

**Custom Labels -**

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| --- | --- |
| **Label Name** | **Value** |
| Active Order Status | Activated |
| Add OLI Error Message for Active Order | Sorry, you cannot add Order Line Items under an Active Order. |
| Order Confirmation Error Message for Active Order | Sorry, you cannot reconfirm an Active Order. |
| Order Endpoint | https://assignment.requestcatcher.com/test |
| Order Success Message | Order Activated Successfully. |
| Product List Empty Error Message | Please add products to the Order |
| Order Modification Success Message | Order updated Successfully |

**Few Points –**

1. **Overall code is 97%.**
   1. **OrderProductsController – 100%**
   2. **HttpUtility – 100%**
   3. **AvailableProductsController – 100%**
   4. **ConfirmOrderController – 92%**
2. **High level code comments has been added for code understanding.**
3. **Lazy loading has been applied for better performance when volume of products is high. Only 10 products will be loaded initially and after every scroll, it will append next 10 products into product list.**
4. **Lightning Message Service has been used to communicate between 2 components to update Order Products table real-time without refreshing whole page.**
5. **Custom Labels are used for configurable messages.**
6. **Confirm Order button has been added under orderProducts lwc component because we cannot create “Lightning Action” with lwc component and as per requirement use of Aura is not allowed.**
7. **Here is an Endpoint used for callouts,** [**https://assignment.requestcatcher.com/test**](https://assignment.requestcatcher.com/test)