|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| URS  Class Diagram | URS  1 | URS  2 | URS  3 | URS  4 | URS  5 | URS  6 | URS  7 | URS  8 | URS  9 | URS  10 | URS  11 | URS  12 | URS  13 |
| Member |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Administrator |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AdminController |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Registration |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AccountController |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LoginViewModel |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WebUI |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PagingInfo |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NavController |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EFProductRepository |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EFDbContext |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IProductRepository |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NinjectControllerFactory |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cart |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CartController |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CartLine |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CartIndexViewModel |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Product |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ProductController |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ProductListViewModel |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IOrderRepository |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CartModelBinder |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PaymentSelection |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Database |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Traceability Matrix between Class Diagram /URS**

**Traceability Matrix between Method/URS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| URS  Method | URS  1 | URS  2 | URS  3 | URS  4 | URS  5 | URS  6 | URS  7 | URS  8 | URS  9 | URS  10 | URS  11 | URS  12 | URS  13 |
| Log In() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Edit Profile() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ViewShoppingHistory() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ViewAllShoppingHistory() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GetImage() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Register() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ToTalpage() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| View() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Menu() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Search() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Products() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Index() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CreateProduct() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DeleteProduct() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| List<>() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SaveProduct() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GetAllProducts() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Summary() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AddToCart() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RemoveFromCart() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Completed() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Checkout() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SaveShopping() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AddItem() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RemoveLine() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ComputeTotalvalue() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Clear() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Line() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Product() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quantity() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AddBinding() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ProcessOrder() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BinderModel() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paypal() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Transfer() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CreditCard() |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Confirm() |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Traceability Matrix between Method /SRS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SRS  Method | SRS  1 | SRS  2 | SRS  3 | SRS  4 | SRS  5 | SRS  6 | SRS  7 | SRS  8 | SRS  9 | SRS  10 | SRS  11 | SRS  12 | SRS  13 | SRS  14 | SRS  15 | SRS  16 | SRS  17 |
| Log In() | 🗸 | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Edit Profile() |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ViewShoppingHistory() |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  | 🗸 |
| ViewAllShoppingHistory() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GetImage() |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |
| Register() |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ToTalpage() |  |  |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |  |  |
| View() |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |
| Menu() |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |
| Search() |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |
| Products() |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |
| Index() |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |
| CreateProduct() |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |
| DeleteProduct() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| List<>() |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  |  |  |  |  |
| SaveProduct() |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |
| GetAllProducts() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Summary() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AddToCart() |  |  |  |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  |  |
| Completed() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Checkout() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SaveShopping() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AddItem() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RemoveLine() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ComputeTotalvalue() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Clear() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Line() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Product() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quantity() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AddBinding() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ProcessOrder() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BinderModel() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paypal() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Transfer() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CreditCard() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Confirm() |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SRS  Class Diagram | SRS  1 | SRS  2 | SRS  3 | SRS  4 | SRS  5 | SRS  6 | SRS  7 | SRS  8 | SRS  9 | SRS  10 | SRS  11 | SRS  12 | SRS  13 | SRS  14 | SRS  15 | SRS  16 | SRS  17 |
| Member | 🗸 |  | 🗸 | 🗸 | 🗸 |  |  |  | 🗸 | 🗸 |  |  |  |  | 🗸 |  |  |
| Administrator |  | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  | 🗸 |
| AdminController |  | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  | 🗸 |
| Registration |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AccountController |  | 🗸 | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LoginViewModel | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WebUI |  |  |  | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  |  |  |  |
| PagingInfo |  |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  |  |  |  |
| NavController |  |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  |  |  |  |
| EFProductRepository |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EFDbContext |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IProductRepository |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |
| NinjectControllerFactory |  |  |  |  |  |  |  |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  |
| Cart |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CartController |  |  |  |  |  | 🗸 |  |  | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 |  |
| CartLine |  |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |  |
| CartIndexViewModel |  |  |  |  |  |  |  |  | 🗸 |  | 🗸 | 🗸 |  |  |  | 🗸 |  |
| Product |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |
| ProductController |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |
| ProductListViewModel |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IOrderRepository |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CartModelBinder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PaymentSelection |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Database |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Traceability Matrix between Class /SRS**

**Traceability Matrix between Sequence Diagram /URS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| URS  SEQ | URS  1 | URS  2 | URS  3 | URS  4 | URS  5 | URS  6 | URS  7 | URS  8 | URS  9 | URS  10 | URS  11 | URS  12 | URS  13 |
| SEQ01 | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |
| SEQ02 |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |
| SEQ03 |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |
| SEQ04 |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |
| SEQ05 |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |
| SEQ06 |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |
| SEQ07 |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  |
| SEQ08 |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |
| SEQ09 |  |  |  |  |  |  |  |  | 🗸 |  |  |  |  |
| SEQ10 |  |  |  |  |  |  |  |  |  | 🗸 |  |  |  |
| SEQ11 |  |  |  |  |  |  |  |  |  |  | 🗸 |  |  |
| SEQ12 |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |
| SEQ13 |  |  |  |  |  |  |  |  |  |  |  |  | 🗸 |

**Traceability Matrix between Sequence Diagram /SRS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| URS  SEQ | SRS01 | SRS02 | SRS03 | SRS04 | SRS05 | SRS06 | SRS07 | SRS08 | SRS09 | SRS10 | SRS11 | SRS12 | SRS13 | SRS14 | SRS15 | SRS16 | SRS17 |
| SEQ01 |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SEQ02 |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  | 🗸 |
| SEQ03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SEQ04 |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SEQ05 |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SEQ06 | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SEQ07 |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |  |
| SEQ08 |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |
| SEQ09 |  |  |  |  |  |  |  |  |  |  | 🗸 | 🗸 | 🗸 | 🗸 |  |  |  |
| SEQ10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |
| SEQ11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |  |
| SEQ12 |  |  |  |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  |  |
| SEQ13 |  |  |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |  |  |

**Traceability Matrix between Sequence SRS /URS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| URS   SRS | URS01 | URS02 | URS03 | URS04 | URS05 | URS06 | URS07 | URS08 | URS09 | URS10 | URS11 | URS12 | URS13 |
| SRS01 |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |
| SRS02 | 🗸 |  |  |  |  |  |  |  |  |  |  |  |  |
| SRS03 |  |  |  | 🗸 |  |  |  |  |  |  |  |  |  |
| SRS04 |  |  |  |  | 🗸 |  |  |  |  |  |  |  |  |
| SRS05 |  |  |  |  |  | 🗸 |  |  |  |  |  |  |  |
| SRS06 |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |
| SRS07 |  |  |  |  |  |  | 🗸 |  |  |  |  |  |  |
| SRS08 |  |  |  |  |  |  |  | 🗸 |  |  |  |  |  |
| SRS09 |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |
| SRS10 |  |  |  |  |  |  |  |  |  |  |  | 🗸 |  |
| SRS11 |  |  |  |  |  |  |  |  | 🗸 |  |  |  |  |
| SRS12 |  |  |  |  |  |  |  |  | 🗸 |  |  |  |  |
| SRS13 |  |  |  |  |  |  |  |  | 🗸 |  |  |  |  |
| SRS14 |  |  |  |  |  |  |  |  | 🗸 |  |  |  | 🗸 |
| SRS15 |  |  |  |  |  |  |  |  |  |  | 🗸 |  |  |
| SRS16 |  |  |  |  |  |  |  |  |  | 🗸 |  |  |  |
| SRS17 |  | 🗸 |  |  |  |  |  |  |  |  |  |  |  |