**State Machine Diagram Description:**

**Shopping Cart**

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| --- | --- |
| **Status** | **Description** |
| Empty | The Shopping Cart is now empty. Exits to Add Items on adding items . |
| Containing items | The Shopping Cart is now filled. The customer can now add, remove (if items>0) or Proceed to checkout. |

**Proceed to Checkout**

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| --- | --- |
| **Status** | **Description** |
| Logged in (conditional status) | If the customer has already logged in, it goes to Checkout status and if the customer has not logged in or registered, it goes to the Login/Registration status. |
| Login/Registration | Exits to the Login/Registration |
| Checkout | Displays the final details and exits to Proceed to Method . |

**Login/Registration**

|  |  |
| --- | --- |
| **Status** | **Description** |
| Has Account (conditional status) | If the customer already has an account, it exits to Ready to Login status and if the customer does not have a account, customer is suppose to create an account and thus exits to Registration. |
| Registration | Asks the customer to create an account and exits to Ready to login status. |
| Ready to Login | Asks the customer to enter the login credentials and then validates it. If the customer has forgotten his/her password it exits to Forgotten Password. |
| Forgotten Password | Sends a recovery email with the new password to the customer and exits to the Ready to Login status to allow the customer to login again |

**Scan and display Items**

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| --- | --- |
| **Status** | **Description** |
| Scanning QR code |  |
| Showing Product details |  |
| Show availability for the selected size |  |
| Show Item summary |  |
|  |  |