

CSCC01

# System Design Document

## Team: Characters

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# CRC Cards

## Frontend

ClassName: HomePage	
Responsibilities: <ul style="list-style-type: none"> <li>- Display mission statement</li> <li>- Display shop, login, signup buttons</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- ShopPage</li> <li>- LoginPage</li> <li>- SignupPage</li> </ul>

ClassName: LoginPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Allow user to input email and password</li> <li>- Provide link to Forgot-Password</li> <li>- Provide link to Sign-Up</li> <li>- Link to HomePage when successful</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- HomePage</li> </ul>

ClassName: SignupPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Allow user to input email, username, and password to register user with a new account via form</li> <li>- Validate user input into the form               <ul style="list-style-type: none"> <li>- Provides indication if input is invalid</li> </ul> </li> <li>- Link to LoginPage after successful signup</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- LoginPage</li> <li>- UserModel</li> </ul>

ClassName: StoryListPage
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Responsibilities: <ul style="list-style-type: none"> <li>- Allow employee to see a list of stories</li> <li>- Each story should be clickable and brings you to the StoryDetailPage</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- StoryDetailPage</li> <li>- StoryModel</li> </ul>
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ClassName: StoryDetailPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Display submitted story information and status of the application</li> <li>- Allow employees to change the status of the story</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- StoryListPage</li> <li>- Story</li> </ul>

ClassName: ShopPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Display shop items</li> <li>- Allow users to filter shop items</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- ProductEditPage</li> <li>- ProductModel</li> </ul>

ClassName: ProductEditPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Provide Employees with ability to add and/or remove shop items</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- ShopPage</li> <li>- Stories</li> <li>- ProductModel</li> </ul>

ClassName: ProductDisplayPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Provide text or video content for the product's corresponding Character story</li> <li>- Allow user to add product to shopping cart <ul style="list-style-type: none"> <li>- Links to LoginPage if user is not logged in</li> </ul> </li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- CartPage</li> <li>- ShopPage</li> <li>- LoginPage</li> <li>- ProductModel</li> </ul>

- Provide “back button” to allow user to return to ShopPage	
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ClassName: ProfilePage	
Responsibilities: <ul style="list-style-type: none"> <li>- Display user’s personal information</li> <li>- Allow user to edit personal information</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- User</li> </ul>

ClassName: CartPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Display user cart items</li> <li>- Allow user to remove cart items</li> <li>- Allow user to increment item quantity</li> <li>- Provide link to CheckoutPage</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- CheckoutPage</li> <li>- Product</li> </ul>

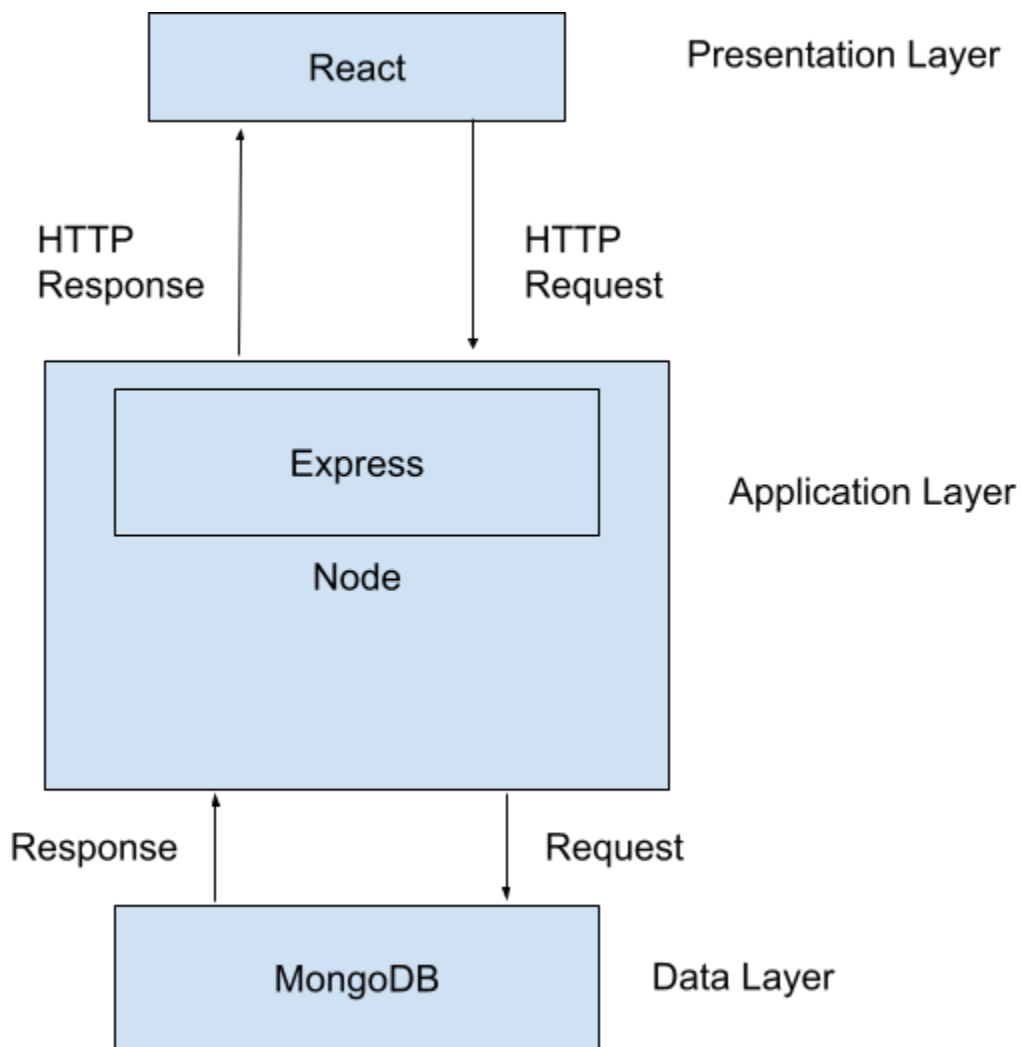
ClassName: CheckoutPage	
Responsibilities: <ul style="list-style-type: none"> <li>- Accept user payment details</li> <li>- Provides summary of order details</li> <li>- Allows user to buy items in their cart <ul style="list-style-type: none"> <li>- Provides indication is payment is successfully processed</li> </ul> </li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- CartPage</li> <li>- Product</li> <li>- Order</li> </ul>

## Backend

ClassName: Home	
Responsibilities: <ul style="list-style-type: none"> <li>- Allow user to navigate to shop, login, signup page</li> </ul>	Collaborator:

ClassName: Order	
Responsibilities: <ul style="list-style-type: none"> <li>- Create a new order after all payment details have been correctly entered and submitted.</li> <li>- Get order data</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- User</li> <li>- Product</li> </ul>
ClassName: Story	
Responsibilities: <ul style="list-style-type: none"> <li>- Create a new story after all submitted story information has been correctly entered.</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- User</li> </ul>
ClassName: Product	
Responsibilities: <ul style="list-style-type: none"> <li>- Create a new product after all submitted product information has been correctly entered.</li> <li>- Remove products by id</li> <li>- Edit product information</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- Story</li> </ul>
ClassName: Profile	
Responsibilities: <ul style="list-style-type: none"> <li>- Return user information</li> <li>- Update user information</li> </ul>	Collaborator:

## System Architecture Diagram



Our application uses the three tier architecture:

<https://www.ibm.com/cloud/learn/three-tier-architecture>