

CSCC01

# System Design Document

## Team: Characters

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# CRC Cards

## Frontend

ClassName: App	
Responsibilities: <ul style="list-style-type: none"> <li>- Display mission statement</li> <li>- Display shop, signup buttons</li> <li>- Display Submit Product button for employees</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- ProductStore</li> <li>- Signup</li> <li>- User</li> <li>- SubmitProduct</li> </ul>

ClassName: Login	
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>- Redirect back when successful</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- App</li> </ul>

ClassName: ProfileInfo	
Responsibilities: <ul style="list-style-type: none"> <li>- Contains components to view/edit user information</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- ProfileEdit</li> <li>- PasswordEdit</li> </ul>

ClassName: ProfileEdit	
Responsibilities: <ul style="list-style-type: none"> <li>- Shows form to allows user to edit/view first name, last name, and email of the account</li> <li>-</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- User</li> </ul>

ClassName: PasswordEdit	
Responsibilities: <ul style="list-style-type: none"> <li>- Shows form to allow user to change the stored password</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- User</li> </ul>

ClassName: Signup	
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>- Redirect back after successful signup</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- Login</li> <li>- User</li> </ul>

ClassName: StoryList	
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 StoryDetail</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- StoryDetail</li> <li>- StoryModel</li> </ul>

ClassName: StoryDetails	
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>- StoryList</li> <li>- Story</li> </ul>

ClassName: ProductStore	
Responsibilities:	Collaborator:

<ul style="list-style-type: none"> <li>- Display shop items</li> <li>- Allows users to search for specific items</li> <li>- Allow users to filter shop items</li> <li>- Allow users to click on an item to view product details</li> </ul>	<ul style="list-style-type: none"> <li>- ProductEdit</li> <li>- ProductModel</li> <li>- ProductDetails</li> </ul>
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ClassName: SubmitProduct	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Provide Employees with ability to add shop items which links to a specific character story when submitting correct info.</li> </ul>	<b>Collaborator:</b> <ul style="list-style-type: none"> <li>- Stories</li> <li>- ProductModel</li> </ul>

ClassName: ProductDetails	
<b>Responsibilities:</b> <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 Login if user is not logged in</li> </ul> </li> <li>- Provide Employees with ability to remove shop items</li> </ul>	<b>Collaborator:</b> <ul style="list-style-type: none"> <li>- Cart</li> <li>- ProductStore</li> <li>- Login</li> <li>- ProductModel</li> </ul>

ClassName: Profile	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>- Display user's personal information</li> <li>- Allow user to edit personal information</li> </ul>	<b>Collaborator:</b> <ul style="list-style-type: none"> <li>- User</li> </ul>

ClassName: Cart	
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 Checkout</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- Checkout</li> <li>- Product</li> </ul>

ClassName: Checkout	
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>- Cart</li> <li>- Product</li> <li>- Order</li> </ul>

## Backend

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>

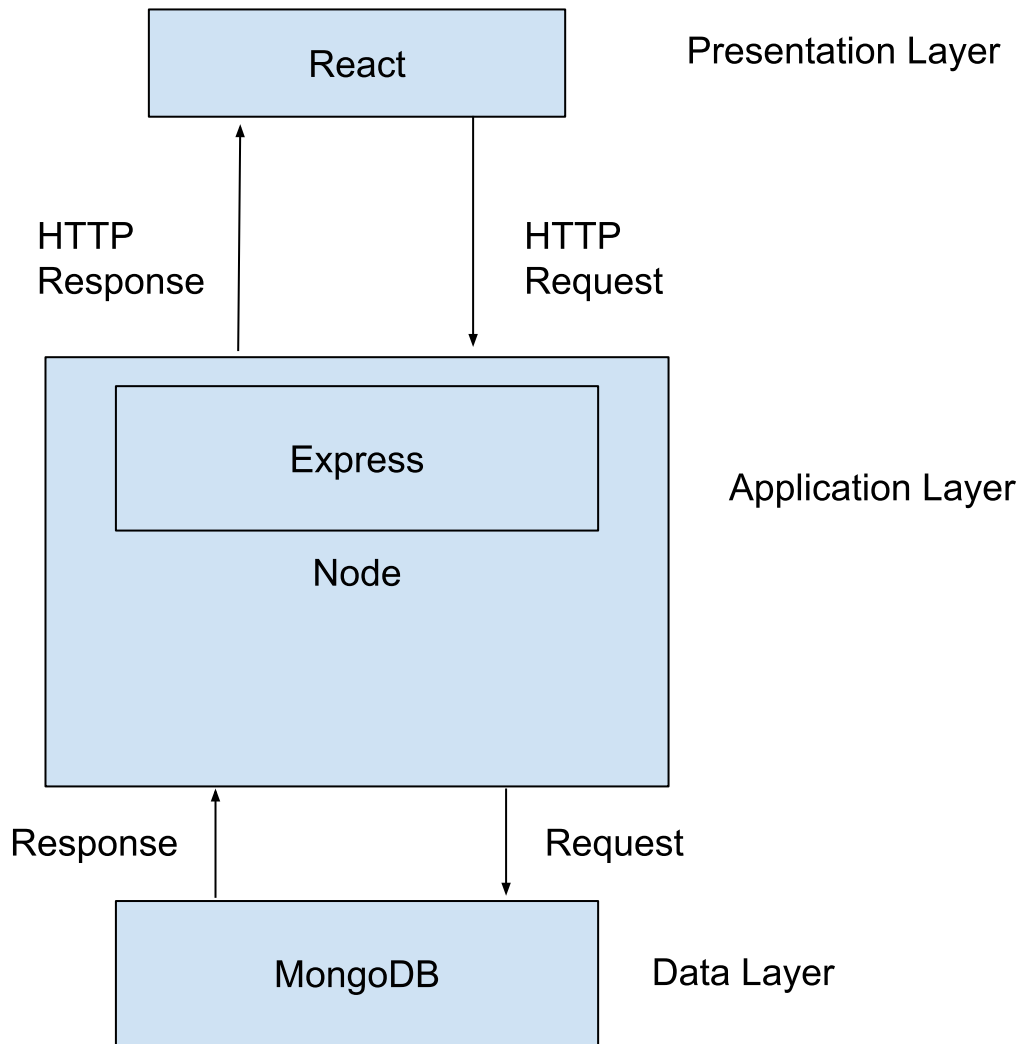
ClassName: Story	
Responsibilities: <ul style="list-style-type: none"> <li>- Create a new story after all submitted story information has been correctly entered.</li> </ul>	Collaborator: <ul style="list-style-type: none"> <li>- User</li> </ul>

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: User	
Responsibilities: <ul style="list-style-type: none"><li>- Return user information</li><li>- Update user information</li></ul>	Collaborator: <ul style="list-style-type: none"><li>- None</li></ul>

## System Architecture Diagram



Our application uses the three tier architecture:

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