CSCC01

System Design Document

Team: Characters

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CRC Cards

Frontend

ClassName: App	

Responsibilities:
   - Display mission statement
   - Display shop, signup buttons
   - Display Submit Product button for employees
	Collaborator:
	   - ProductStore
	   - Signup
	   - User
	   - SubmitProduct

ClassName: Login	

Responsibilities:
   - Allow user to input email and password
   - Provide link to Forgot-Password
   - Provide link to Sign-Up
   - Redirect back when successful
	Collaborator:
	   - App

ClassName: ProfileInfo	

Responsibilities:
   - Contains components to view/edit user information
	Collaborator:
	   - ProfileEdit
	   - PasswordEdit

ClassName: ProfileEdit	

Responsibilities:
   - Shows form to allows user to edit/view first name, last name, and email of the account
   -
	Collaborator:
	   - User

ClassName: PasswordEdit	
Responsibilities: - Shows form to allow user to change the stored password	Collaborator: - User

ClassName: Signup	
Responsibilities: - Allow user to input email, username, and password to register user with a new account via form - Validate user input into the form - Provides indication if input is invalid - Redirect back after successful signup	Collaborator: - Login - User

ClassName: StoryList	
Responsibilities: - Allow employee to see a list of stories - Each story should be clickable and brings you to the StoryDetail - Allow the employee to filter the stories depending on their status or if the story is for custom apparel or for a character candidate	Collaborator: - StoryDetails - Story

ClassName: StoryDetails	
Responsibilities: - Display submitted story information and status of the application - Allow employees to change the status of the story	Collaborator: - StoryList - Story

ClassName: ProductStore

Responsibilities:	Collaborator:
- Display shop items - Allows users to search for specific items - Allow users to filter shop items by apparel type and story title - Allow users to click on an item to view product details	- SubmitProduct - Product - ProductDetails

ClassName: SubmitProduct	
Responsibilities:	Collaborator:
- Provide Employees with ability to add shop items which links to a specific character story when submitting correct info.	- Stories - Product

ClassName: ProductDetails	
Responsibilities:	Collaborator:
- Provide text or video content for the product's corresponding Character story - Allow user to add product to shopping cart - Links to Login if user is not logged in - Provide Employees with ability to remove shop items	- ShoppingCart - ProductStore - Login - Product

ClassName: Profile	
Responsibilities:	Collaborator:
- Display user's personal information	- User

- Allow user to edit personal information	

ClassName: ShoppingCart	
Responsibilities: - Display user cart items - Allow user to remove cart items - Allow user to increment item quantity - Provide link to Checkout	Collaborator: - Checkout - Product

ClassName: Checkout	
Responsibilities: - Accept user payment details - Allows user to buy items in their cart - Provides indication if payment is successfully processed	Collaborator: - ShoppingCart - Product - Order

ClassName: OrderHistory	
Responsibilities: - Displays all previous orders made by a user - Displays brief, useful information for each order - Provide users with an option to view more details about a specific order	Collaborator: - Checkout - Order

ClassName: OrderDetails	
Responsibilities: - Displays in-depth information for a specific order. This includes: order#, order date, billingInfo, shippingInfo, and an orderSummary	Collaborator: - OrderHistory - Product - Order

Backend

ClassName: Order	
Responsibilities: - Create a new order after all payment details have been correctly entered and submitted. - Get order data	Collaborator: - User - Product

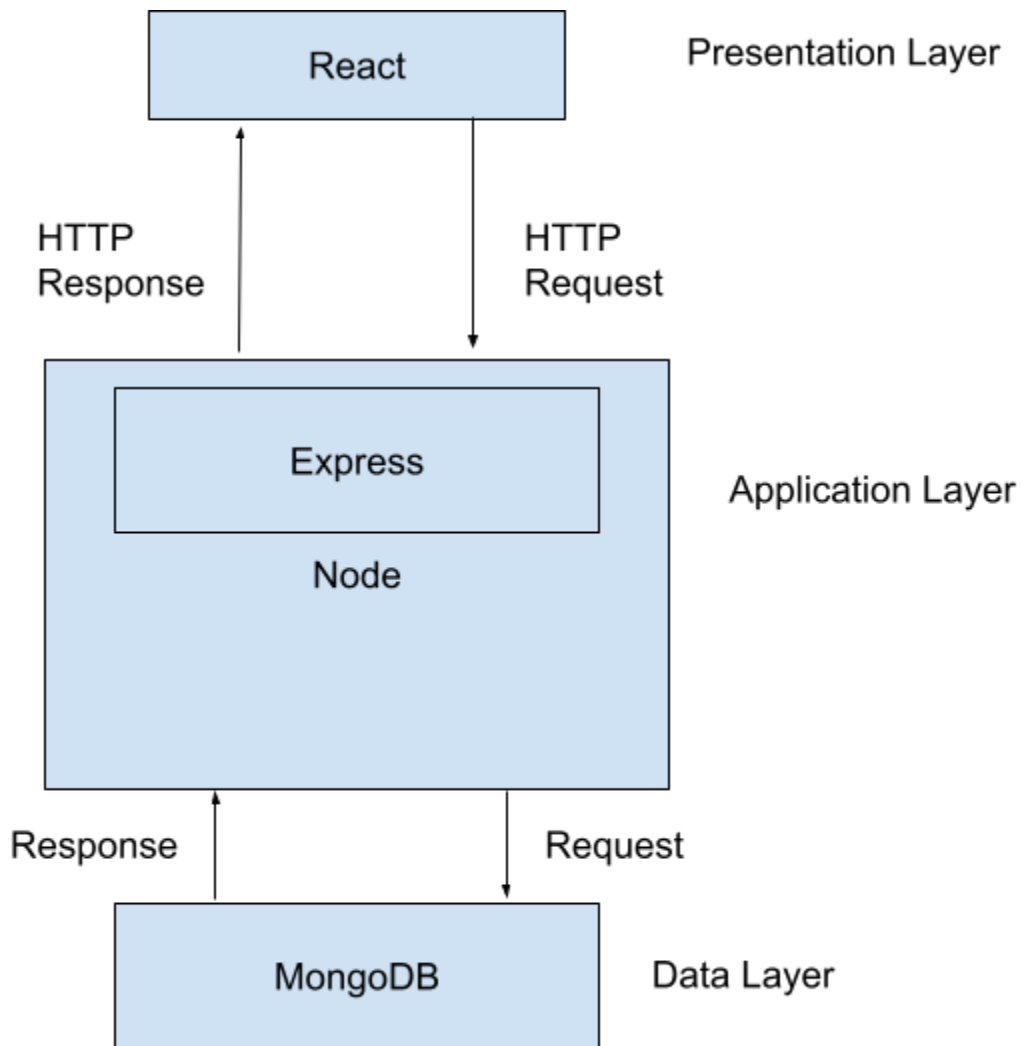| ClassName: Story	
Responsibilities: - Create a new story after all submitted story information has been correctly entered.	Collaborator: - User

ClassName: Product	
Responsibilities: - Create a new product after all submitted product information has been correctly entered. - Remove products by id - Edit product information	Collaborator: - Story

ClassName: User	
Responsibilities: - Return user information - Update user information	Collaborator: - None

System Architecture Diagram

Our application uses the three tier architecture:
https://www.ibm.com/cloud/learn/three-tier-architecture