

CSCC01

System Design Document

Team: Characters

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CRC Cards

Frontend

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

ClassName: Login	
Responsibilities: <ul style="list-style-type: none"> - Allow user to input email and password - Provide link to Forgot-Password - Provide link to Sign-Up - Redirect back when successful 	Collaborator: <ul style="list-style-type: none"> - App

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

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

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

ClassName: Signup	
Responsibilities: <ul style="list-style-type: none"> - Allow user to input email, username, and password to register user with a new account via form - Validate user input into the form <ul style="list-style-type: none"> - Provides indication if input is invalid - Redirect back after successful signup 	Collaborator: <ul style="list-style-type: none"> - Login - User

ClassName: StoryList	
Responsibilities: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - StoryDetails - Story

ClassName: StoryDetails	
Responsibilities: <ul style="list-style-type: none"> - Display submitted story information and status of the application - Allow employees to change the status of the story - Allow employees to delete the story. 	Collaborator: <ul style="list-style-type: none"> - StoryList - Story

ClassName: ProductStore	
Responsibilities: <ul style="list-style-type: none"> - 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 	Collaborator: <ul style="list-style-type: none"> - SubmitProduct - Product - ProductDetails

ClassName: SubmitProduct	
Responsibilities: <ul style="list-style-type: none"> - Provide Employees with ability to add shop items which links to a specific character story when submitting correct info. 	Collaborator: <ul style="list-style-type: none"> - Stories - Product

ClassName: ProductDetails	
Responsibilities: <ul style="list-style-type: none"> - Provide text or video content for the product's corresponding Character story - Allow user to add product to shopping cart <ul style="list-style-type: none"> - Links to Login if user is not logged in - Provide Employees with ability to remove shop items if the character story is deleted, otherwise, prompt them to delete character story first. 	Collaborator: <ul style="list-style-type: none"> - ShoppingCart - ProductStore - Login - Product

ClassName: ProductEdit

Responsibilities: <ul style="list-style-type: none"> - Shows form to allows user to edit/view image, name, type, price, description, inventory amount of the product 	Collaborator: <ul style="list-style-type: none"> - ProductDetails - Product
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ClassName: Profile	
Responsibilities: <ul style="list-style-type: none"> - Display user's personal information - Allow user to edit personal information 	Collaborator: <ul style="list-style-type: none"> - User

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

ClassName: Checkout	
Responsibilities: <ul style="list-style-type: none"> - Accept user payment details - Allows user to buy items in their cart <ul style="list-style-type: none"> - Provides indication if payment is successfully processed 	Collaborator: <ul style="list-style-type: none"> - ShoppingCart - Product - Order

ClassName: OrderHistory	
Responsibilities: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - Checkout - Order

ClassName: OrderDetails	
Responsibilities: <ul style="list-style-type: none"> - Displays in-depth information for a specific order. This includes: order#, order date, billingInfo, shippingInfo, and an orderSummary 	Collaborator: <ul style="list-style-type: none"> - OrderHistory - Product - Order

ClassName: ContactUs	
Responsibilities: <ul style="list-style-type: none"> - Displays a contact form with three fields: name, email, message - Accepts user input for the three fields <ul style="list-style-type: none"> - Provides indication if message successfully sent to Characters 	Collaborator: <ul style="list-style-type: none"> - None

ClassName: Home	
Responsibilities: <ul style="list-style-type: none"> - Display information on who Characters is and their mission - Allow users to access the store and the contact us form through the page 	Collaborator: <ul style="list-style-type: none"> - ContactUs - ProductStore

ClassName: CustomerOrders	
Responsibilities: <ul style="list-style-type: none"> - Displays all previous orders made by any user - Displays brief, useful information for each order - Provide employees with an option to view more details about a specific 	Collaborator: <ul style="list-style-type: none"> - ProductStore - Product - Order - user

order, and to modify its fulfilled status	
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Backend

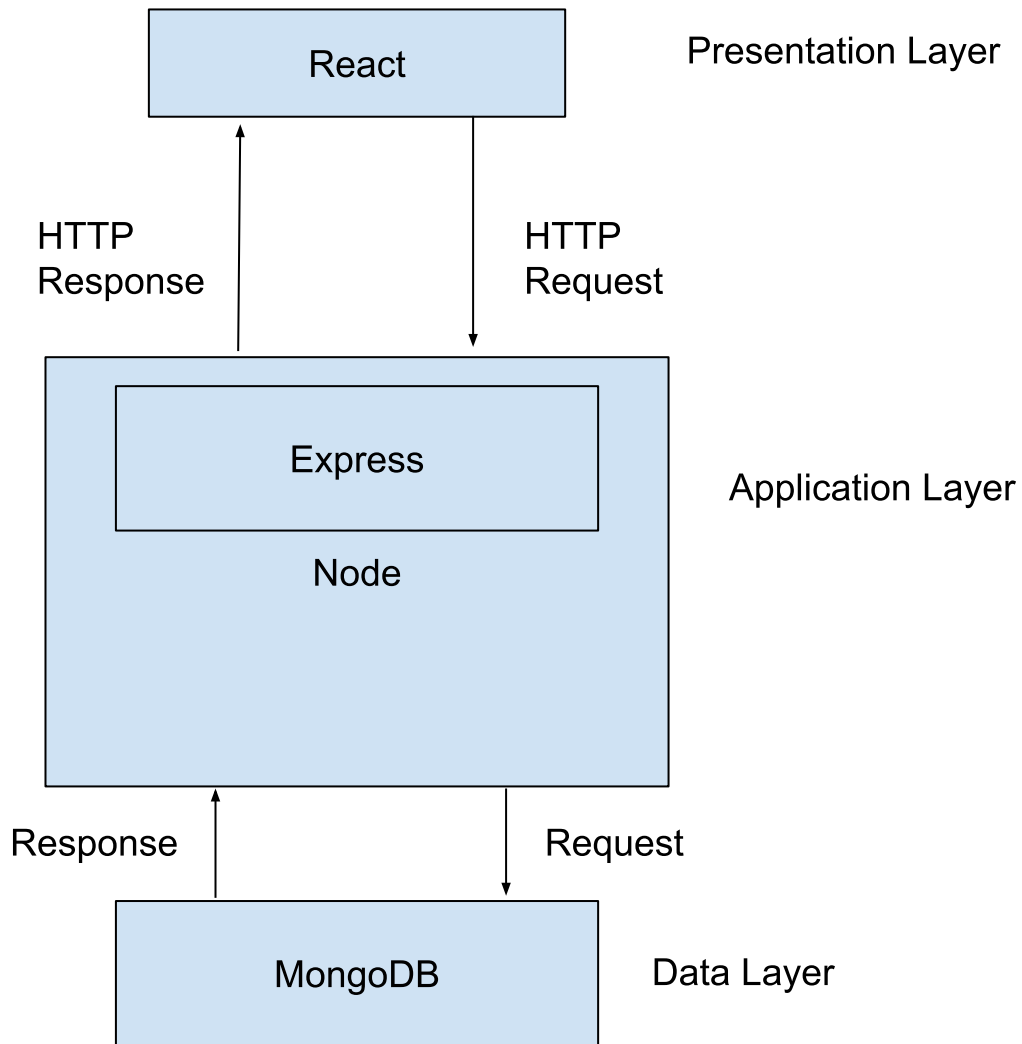
ClassName: Order	
Responsibilities: <ul style="list-style-type: none"> - Create a new order after all payment details have been correctly entered and submitted. - Get order data 	Collaborator: <ul style="list-style-type: none"> - User - Product

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

ClassName: Product	
Responsibilities: <ul style="list-style-type: none"> - Create a new product after all submitted product information has been correctly entered. - Remove products by id - Edit product information 	Collaborator: <ul style="list-style-type: none"> - Story

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

System Architecture Diagram



Our application uses the three tier architecture:

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