

CSCC01

System Design Document

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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 	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 	Collaborator: <ul style="list-style-type: none"> - StoryList - Story

ClassName: ProductStore	
Responsibilities:	Collaborator:

<ul style="list-style-type: none"> - Display shop items - Allows users to search for specific items - Allow users to filter shop items - Allow users to click on an item to view product details 	<ul style="list-style-type: none"> - SubmitProduct - Product - ProductDetails
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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 	Collaborator: <ul style="list-style-type: none"> - ShoppingCart - ProductStore - Login - Product

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

Backend

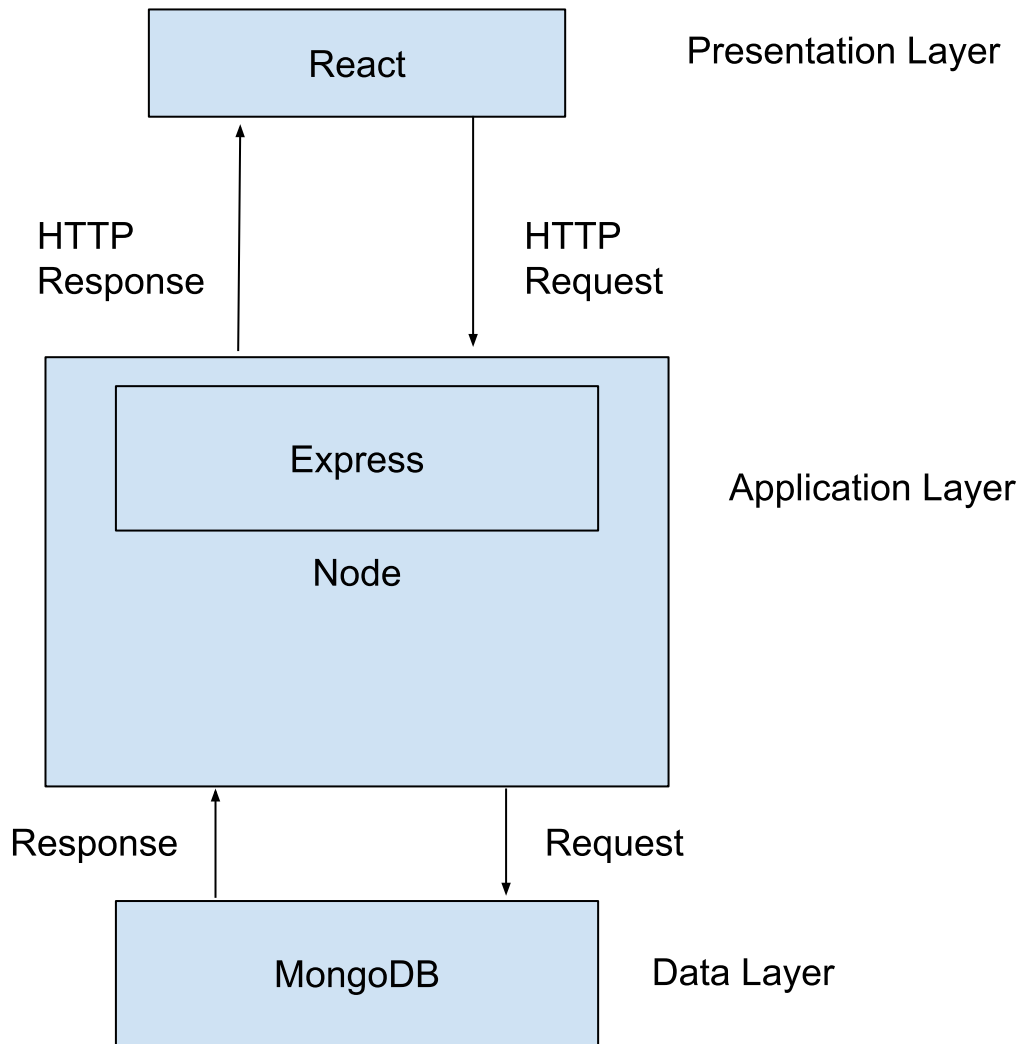
ClassName: Order	
Responsibilities: <ul style="list-style-type: none"> - Create a new order after all payment details have been correctly entered and submitted. - Get order data 	Collaborator: <ul style="list-style-type: none"> - User - Product

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>