

Note:

- 1. Analyze the given problem statement using W3H techniques and document it.
- 2. Create a web application for the given scenario using React as a front end.
- 3. Configure JSON server and consider JSON file as your database.
- 4. Perform all the CRUD operations using React HttpClient Service.
- 5. Perform the required validations for all the fields.
- 6. Application must be Responsive (Including Mobile View) and Single Page Application (SPA) containing Multiple Views.
- 7. UI must be a Rich UI and look & Feel.
- 8. Maintain the Code Quality .

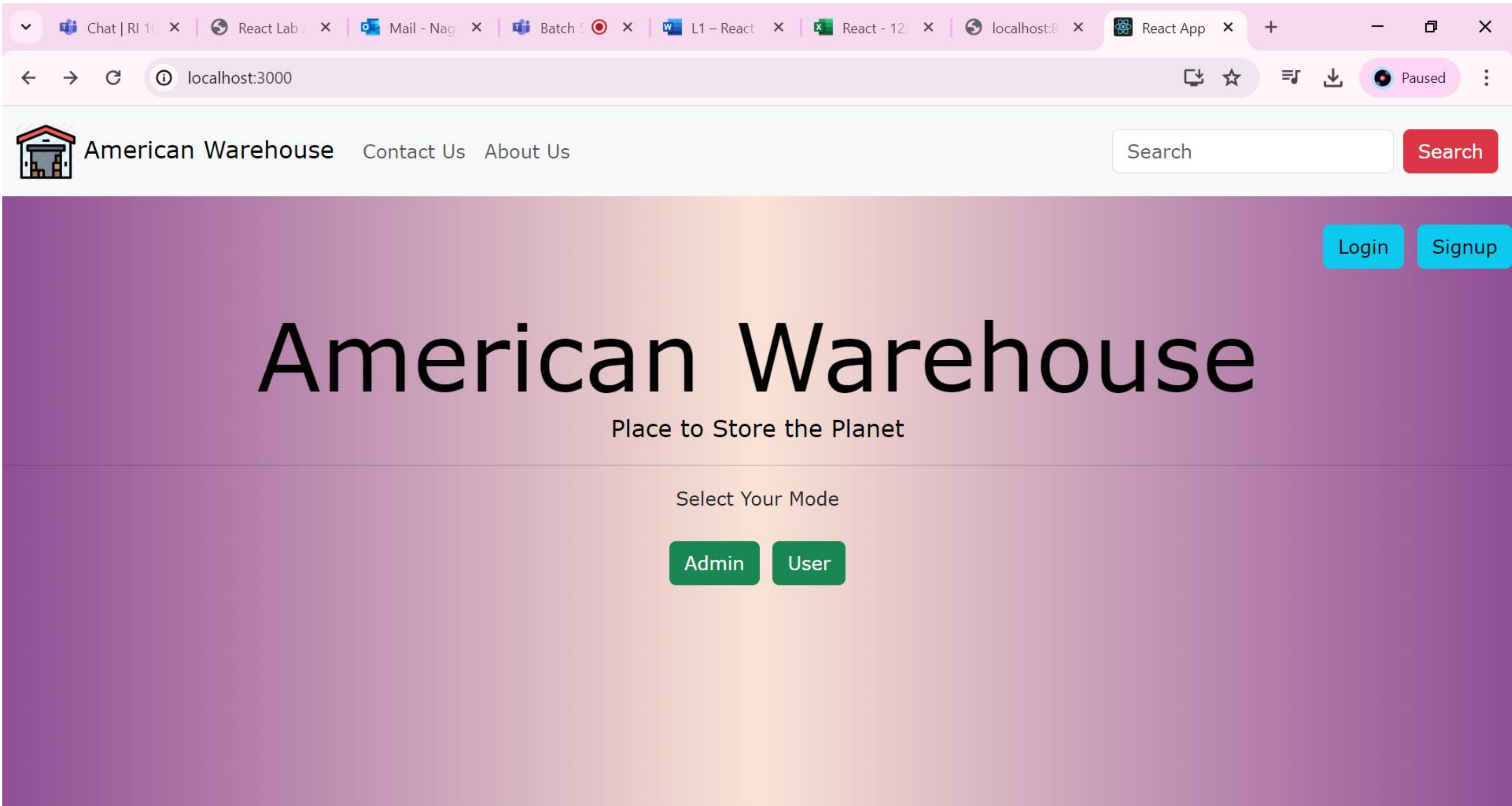
Q15) Warehouse Managment System - software that helps companies manage and control daily warehouse operations, from the moment goods and materials enter a distribution or fulfillment center until the moment they leave.

1. W3H:

Project Name: Warehouse Management System. Name: Nagarjun N S Emp ID: 12228	
What ? 1	How ? 2
1. What are the modules required? Ans: a) Admin module. b) User module,	1) <u>Admin:</u> - a) <u>Login</u> Method 1: Admin can login using username and password. Method 2: Admin can login using email id and password.
2. What are Functionalities required for Admin module? Ans: Admin Module: 1. It should help companies manage daily warehouse operations. 2. Manually adding the events based on event categories. 3. Admin will perform CRUD operations for the items in the warehouse.	b) <u>Add the Item:</u> Method 1: Implement the Add Item using Item name. Method 2: Implement the Add Item using Item price. Method 3: Implement the Add using Item id.
3. What are the Functionalities required for User Module? Ans: User Module: 1. User can able to register and Login. 2. Search the events based on Category. 3. Users can able to view the items and its details in the warehouse.	c) <u>Delete / Update / View the Item:</u> Method 1: Implement the delete / view / update by using manually entering the Item id or name or price. Method 2: Implement the delete / view / update by using dropdown menu. Method 3: Implement the delete / view / update by listing the all the Item details and give individual buttons for each operation.
4. What are the fields required to add the event? Ans: Item Id, Item Name, Item entered date and time, Item quantity, Item Price.	
5. What are the fields required to register for user? Ans: Username, Email and Password.	2) <u>User:</u> - a) <u>Registration / Login:</u> Method 1: Implementation using the social media account. Method 2: Implementation using the username. Method 3: Implementation using the email id and password. b) <u>Search an Item:</u> Method 1: Implement the search of Item using the Item Type. Method 2: Implement the search of Item using the Item name and ID. c) <u>Viewing details of an Item:</u> Method 1: Implement by showing all the Items in a page. Method 2: Implement by providing a seperate page for entering into the view details.

<div>1) Admin: a) Login Method 2: Admin can login using email id and password. (If Admin login using email id and password then we can able to verify the originality of the user.) b) Add Item: Method 3: Implement Add Item using Item ID. (If Add Item Implemented using ID means then filtering process will be easier for updation , deletion.) c) Delete / Update / View the Event: Method 3: Implement the delete / view / update by listing the all the Item details and give individual buttons for each operation.. (if Update / Delete / View the Item by listing the all the item details and give individual button for update / delete means there will be no chance for any errors to occur) 2) User: a) Registration / Login: Method 3: Implementation using the email id and password. (if registration or login using email id means it is easy to verify the originality of the user.) b) Search an Item: Method 2: Implement the search of Item using the Item ID and Name. (If the search an Item implemented using Item id and name means it will be easier to get the Item's infromation quickly.) c) Viewing details of an Item: Method 2: Implement by providing a seperate page for entering into the view details. (Users can easily access the page and it'll look clean)</div>	<div>Admin: - a) Login: Method 1: Admin can login using username and password. (To verify the originality of the user it is highly recommended to login using email so that username cannot be great option.) b) Adding Item: Method 1: Implement the Add Item using Item name. (If two goods or items having same name and different qualities then it'll create name ambiguity and it will lead to stock errors.) Method 2: Implement the Add Item using Item price. (If two goods or items having same name and different qualities then it'll create name ambiguity and it will lead to stock errors.) c) Delete / Update / View the Item: Method 1: Implement the delete / view / update by manually entering the Item id or name or price. (It is very hard to use by manually search the item and perform operations.) Method 2: Implement the delete / view / update by using dropdown menu. (Using the dropdown menu is very hard for users and it'll need one additional click for viewing the menu list.) 2) User: - a) Registration / Login: Method 1: Implementation using the social media account. (Using the social media account to login is not secure as in the current state there is lot of social media accounts are hacked.) Method 2: Implementation using the username. (Using the username only for registration or login is not feasible). b) Search an Item: Method 1: Implement the search of Item using the Item Type. (Searching an item using the item type will not give accurate results.) c) Viewing details of an Item: Method 1: Implement by showing all the Items in a page. (By showing all the item's lists in a single page will not look good and it creates a negative mindset to the user)</div>
Why ? 3	Why not ? 4

2. Screenshots:



Chat | RI 10

React Lab /

Mail - Nag

Batch 5


L1 – React

React - 12

localhost:8

React App

Paused



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Search

Login

Username


nagarjun

Password

.....

Login

Admin:

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Search

Warehouse Management System

Add +

id	Name	Price	City	Quantity	Action
c3ca	Jaggery	2374	Chennai	5	<div>UpdateDelete</div>
6cf0	Sugar	123	fdkinfg	9	<div>UpdateDelete</div>
26e6	Maida	12934	Kunnoor	5	<div>UpdateDelete</div>

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localhost:3000 says
Data added Successfully

OK

Add Items

Item Name

Custard

Quantity

32


City

Chennai

Price

2344

Submit

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Warehouse Management System

Add +

id	Name	Price	City	Quantity	Action
c3ca	Jaggery	2374	Chennai	5	<div>UpdateDelete</div>
6cf0	Sugar	123	fdkinfg	9	<div>UpdateDelete</div>
26e6	Maida	12934	Kunnoor	5	<div>UpdateDelete</div>
48c5	Custard	2344	Chennai	32	<div>UpdateDelete</div>

Chat | RI 10 x

React Lab / x

Mail - Nag x

Batch 5 x

L1 – React x

React - 12 x

localhost:8 x

React App x

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localhost:3000/admin

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Search

Warehouse Management System

Add +

id	Name	Price	City	Quantity	Action
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6cf0	Sugar	123	fdkinfg	9	<div>UpdateDelete</div>
26e6	Maida	12934	Kunnoor	5	<div>UpdateDelete</div>
48c5	Custard	2344	Chennai	32	<div>UpdateDelete</div>

localhost:3000 says

Do you want to delete

OK

Cancel

Chat | RI 10

React Lab

Mail - Nag

Batch 5

L1 – React

React - 12

localhost:8

React App

localhost:3000/admin

Paused

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Search

Warehouse Management System

Add +

id	Name	Price	City	Quantity	Action
c3ca	Jaggery	2374	Chennai	5	<div>UpdateDelete</div>
6cf0	Sugar	123	fdkinfg	9	<div>UpdateDelete</div>
26e6	Maida	12934	Kunnoor	5	<div>UpdateDelete</div>

USER:

American Warehouse

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localhost:3000 says
Data added Successfully

OK

Search

Add Items


Item Name

Quantity

City

Price

Submit

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Search

Warehouse Management System

Add +

id	Name	Price	City	Quantity	Action
c3ca	Jaggery	2374	Chennai	5	<div>UpdateDelete</div>
6cf0	Sugar	123	fdkinfg	9	<div>UpdateDelete</div>
26e6	Maida	12934	Kunnoor	5	<div>UpdateDelete</div>
d5c2	Turmeric	12945	Kodaikanal	24	<div>UpdateDelete</div>

