Case Study: Mapping and Displaying Admin Users in Angular with PrimeNG OrderList

# Introduction

In this case study, we examine a real-world issue where data retrieved from a backend API was not being displayed correctly in a PrimeNG OrderList component within an Angular application. The problem originated due to differences in the structure of the backend response and the format expected by the PrimeNG component.

# Problem Statement

The backend API returned the following JSON structure for admin users:

[ { "key": "0", "value": { "userId": "66d0ab257c3e0c4c077e2188", "name": "4dMagic Admin", "priority": 1 } } ]

The PrimeNG OrderList requires an array of objects with direct access to the properties (e.g., `name`) to display them properly. However, since the `name` field was nested under `value`, the data could not be displayed in the OrderList.

# Solution

The solution was to transform the backend response into the format expected by the PrimeNG OrderList. This was done by mapping over the response and extracting the `value` object, ensuring the array contained objects with a `name` property directly accessible.

# Refactored Angular Component Code

// component.ts  
adminUsers: any[] = [];  
  
ngOnInit() {  
 this.fetchAdminUsers();  
}  
  
fetchAdminUsers() {  
 this.backendService.getAdminUsers().subscribe((data: any[]) => {  
 this.adminUsers = data.map(item => item.value);   
 // Extract the 'value' object to flatten the structure  
 });  
}  
  
onReorder() {  
 console.log('New order:', this.adminUsers);  
}

## Angular Template Code

<div class="formgroup-content" \*ngIf="adminUsers.length > 0">  
 <div class="label-content">  
 <label for="adminUsers">Admin Users (drag to reorder)</label>  
 <p-orderList   
 [value]="adminUsers"  
 [dragdrop]="true"  
 [listStyle]="{ 'height':'250px', 'width': '300px' }"  
 (onReorder)="onReorder()"  
 optionLabel="name">  
 <ng-template #item let-option>  
 {{ option.name }}  
 </ng-template>  
 </p-orderList>  
 </div>  
</div>

# Result

After applying the transformation, the Admin Users were displayed correctly in the PrimeNG OrderList. Users can now view and reorder the list of Admin Users using drag-and-drop functionality.