## **CRUD React App**

## UserCrudApp.js

- UserCrudApp component should render UserForm and UserList components as shown above and pass the props to both these components.
- UserCrudApp component should hold the state like below.
- Initial State object should look like:

```
this.state = {
    nextUserId: 1,
    users: [],
    formData: {
        id: null,
        firstName: '',
        lastName: '',
        email: '',
        phone: '',
        address: ''
}
```

UserCrudApp component should contain the following functions:

```
o handleFormChange(updatedFormData)
```

this function should be passed to UserForm and called when user updates any field like firstName, lastName etc. updatedFormData object should be updated and UserCrudApp state should update formData like below.

```
handleFormChange(updatedFormData) {
        this.setState({ formData: updatedFormData});
}
o saveUser(userInfo)
```

- saveUser(userInfo) should accept a userInfo object as argument with the following properties.
  - id (optional)
    - If id exist in userInfo, then update the existing user, else add a new user with nextUserId in this.state.users array.
  - firstName
  - lastName
  - email
  - phone
  - address

After saving user, update the nextUserId to + 1;

- editUser (userId) function should find the userInfo from this.state.users and set the userInfo to this.state.formData
- deleteUser (userId) Delete the user from this.state.users with particular userId
- resetFormData () should reset the this.state.formData

## UserForm.js

- Should be responsible for rendering add/edit user form
- Should accept the following props

UserForm should contain following functions:

```
o updateFormData(fieldName, fieldValue) {
      const updatedData = Object.assign({},
      this.props.userInfo, {[fieldName]: fieldValue});
      this.props.onChange(updatedData);
}
```

- Respective fields should implement their onChange handlers and call the above updateFormData() function so that data is updated in parent component's (UserCrudApp) state.
- Eg. <input type="text" name="firstName" onChange={e
  => this.updateFormData("firstName", e.target.value)}
  />
- handleCancelClick() function should be registered on click of Cancel button and call the this.prop.resetForm() which will clear the form data.

- handleSaveClick() function should be registered on click of Save/Update button. Required validations should be applied in this function or another function. If data is valid, this.props.save
- UserForm should display Save/Update and Cancel buttons
  - Button text should be displayed as Save/Update, if userInfo.id exist and userInfo.id>0
  - On clicking Save, data should be validated (simple required validation) and this.props.saveUser() function should be called.
  - On clicking Cancel, this.props.onCancel() should be called.

## UserList.js

- UserList component should be responsible for rendering users listing and filtering
- UserList component should display a search textbox on top right to filter users based on firstName and lastName.
- As soon as, we enter text in filter input box, user listing should be filtered. It should work like search functionality.
- It should also display a clear button with input box, to clear filter text
- Inital state should look like:

```
this.state = {
    filterText: ""
}
```

It should accept the following props:

```
users: PropTypes.arrayonEdit: PropTypes.func,deleteUser: PropTypes.func
```

- UserList component should contain this following functions:
  - handleFilterInputChange() should update the state value
  - clearFilterInputText() should clear/remove the filterText from state and show all users

It should implement the filtering logic on this.props.users using this.state.filterText and returns the filtered users. It will be called from render() to render filtered users.

```
o deleteUser() {
      if(confirm("Do you really want to delete {firstName
      + lastName} from list ?")) {
            this.props.deleteUser(userId)
      }
}
```

It should confirm before deleting user from list. It should display a confirm message like "Do you really want to delete {firstName + lastName} from list ?" If user confirms, then it should call parent deleteUser() like this.props.deleteUser(userId), otherwise nothing to do.

 render() should call getUsers() to get the filtered users and then render those filtered users.

• UserList should also display Edit and Delete icons and work as explained above.