

## Learner Assignment Submission Format

### Learner Details

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**Enrolment Number:** SU625MR014

**Batch/Class:** MERN Stack

**Assignment:** User Directory

**Date of Submission:** 01 August 2025

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### Problem Statement

Build a React-based User Directory that fetches user data from an API and displays it in a card layout using reusable components and dynamic rendering.

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### Algorithm

1. Import useState, useEffect, and required components.
  2. Define the UserDirectory functional component.
  3. Initialize state user as an empty array.
  4. Use useEffect to fetch 12 random users from an API on component mount.
  5. Store fetched users in the user state.
  6. Render a container with title "About User".
  7. Map through the user array and render a UserCard for each user.
  8. In the UserCard component:
    - Display user image.
    - Display user's full name, email, and phone number.
  9. Apply styling using CSS (AboutUser.css) and responsive layout for cards.
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## Pseudo Code

IMPORT useState, useEffect

IMPORT UserCard

IMPORT AboutUser.css

DEFINE UserDirectory component

INITIALIZE state 'user' as empty list

ON component mount:

FETCH 12 users from randomuser API

CONVERT response to JSON

SET data.results to 'user' state

RETURN:

DIV container with heading "About User"

FOR each 'user' in state:

RENDER <UserCard> with user data

DEFINE UserCard component

RECEIVE user as prop

DISPLAY:

- User's profile image
- Full name
- Email
- Phone number

EXPORT both components

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## Code

UserCard.js

```
import React from 'react';
```

```
import './AboutUser.css';
```

```
const UserCard = ({ user }) => {
```

```
  return (
```

```
    <div className='user-card'>
```

```
      <img
```

```
        src={user.picture.large}
```

```
        alt={`${user.name.first} ${user.name.last}`}
```

```
        className='user-image'
```

```
      />
```

```
      <h2 className='user-name'>{user.name.first} {user.name.last}</h2>
```

```
      <p className='user-email'>{user.email}</p>
```

```
      <p className='user-phone'>{user.phone}</p>
```

```
    </div>
```

```
  );
```

```
};
```

```
export default UserCard;
```



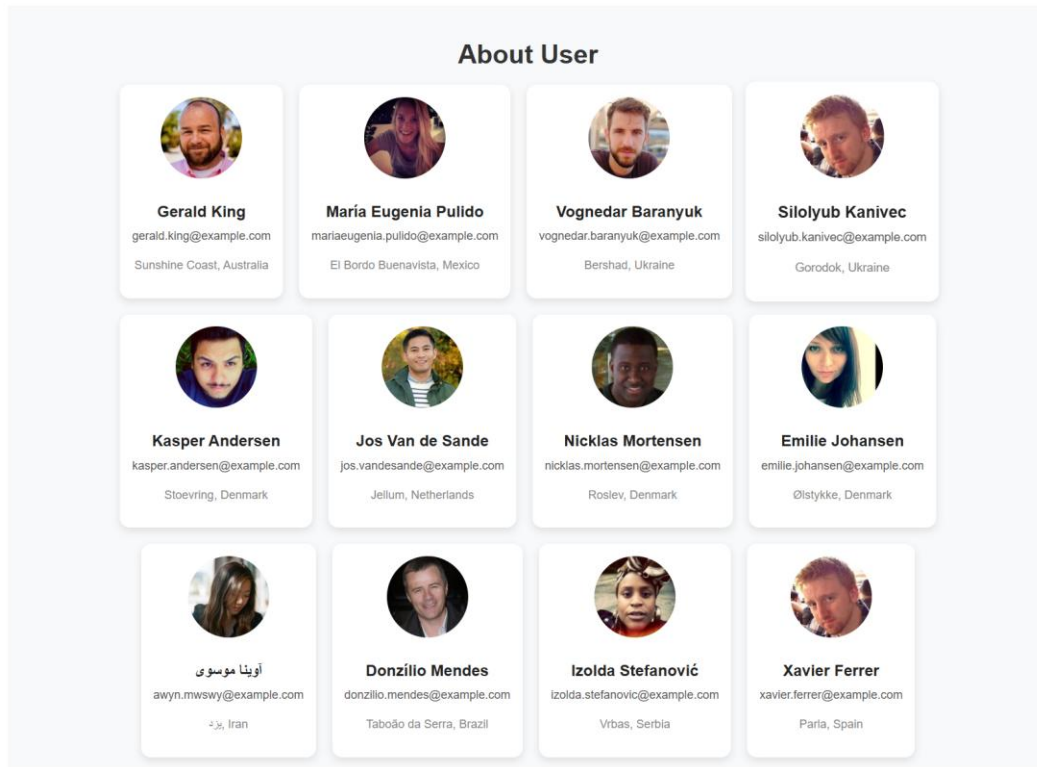
## UserDirectory.js

```
import React, { useEffect, useState } from 'react';  
import UserCard from './UserCard';  
import './AboutUser.css';
```

```
const UserDirectory = () => {  
  const [user, setUser] = useState([]);  
  
  useEffect(() => {  
    fetch("https://randomuser.me/api/?results=12")  
      .then((res) => res.json())  
      .then((data) => setUser(data.results));  
  }, []);  
  
  return (  
    <div className='user-directory'>  
      <h1 className='user-title'>About User</h1>  
      <div className='user-grid'>  
        {user.map((user, index) => (  
          <UserCard key={index} user={user} />  
        ))}  
      </div>  
    </div>  
  );  
}
```

```
export default UserDirectory;
```

## Output



## Observation

- Faced challenge in ensuring API data was loaded before rendering UI.
- Learned how to use useEffect for API calls and store data in state.
- Understood how to pass props to reusable components (UserCard).
- Would improve the app by adding: