

NORAIZ RANA

Task #10

Topic

Dynamic Profile Card

Using React

Date:

18 July 2025

SUBMITTED TO:

APPVERSE TECHNOLOGIES

Project Summary Report

App Name: Dynamic Profile Card App

Tech Stack: React (Vite), Tailwind CSS, JavaScript (ES6+), JSX

Objective

The goal of this project was to build a responsive React app that showcases a list of user profile cards. Each card displays a user's name, bio, and avatar, with interactive functionality to **Follow/Unfollow** users. The app also includes a **global theme toggle (Light/Dark mode)** and a **search bar** for filtering users.

Core Features

1. Reusable `ProfileCard` Component

- Accepts `name`, `bio`, `avatar`, `isFollowed`, and `onFollowToggle` as props.
- Clean and modular design using Tailwind CSS.

2. State Management with `useState`

- Stores all profiles in the `App` component's state.
- Each profile maintains an `isFollowed` boolean for dynamic interaction.

3. Follow/Unfollow Functionality

- Button toggles a user's follow state in real-time.
- State updates reflect instantly on the UI.

4. Theme Toggle (Light/Dark)

- Global switch toggles between Tailwind's light and dark classes.
- Theme state managed using `useState`, applied to `<html>` with `classList`.

5. Bonus Features

-  **Search Input** filters users by name (case-insensitive).
 -  `useEffect` logs the list of followed users to the console when state changes.
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Technical Highlights

- **Tailwind CSS** for utility-first, mobile-responsive UI.
- **Vite** used for fast bundling and hot-reloading during development.
- **React Functional Components and Hooks** (`useState`, `useEffect`) for dynamic behavior.
- Organized folder structure

Testing & Validation

-  Component props passed and rendered correctly.
-  Follow/Unfollow button updates state and toggles text/color.
-  Theme toggle updates layout using Tailwind's `dark:` classes.
-  Search bar filters content in real-time.

- Console shows real-time logs of followed users via `useEffect`.
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UI & UX Design

- Fully **responsive layout** (mobile and desktop friendly).
- Tailwind-styled cards, buttons, and forms for modern and clean UI.
- Smooth transitions on theme and interaction elements.

This project demonstrates core concepts of React — component-based design, props, state, and hooks — while integrating modern styling using Tailwind CSS. It provides a clean, interactive user experience with scalability in mind, ideal for learners aiming to solidify their React fundamentals in a real-world scenario.