

DOKUMENTASI APLIKASI "USER MANAGEMENT"



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PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
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Bab 1 - Demo Aplikasi

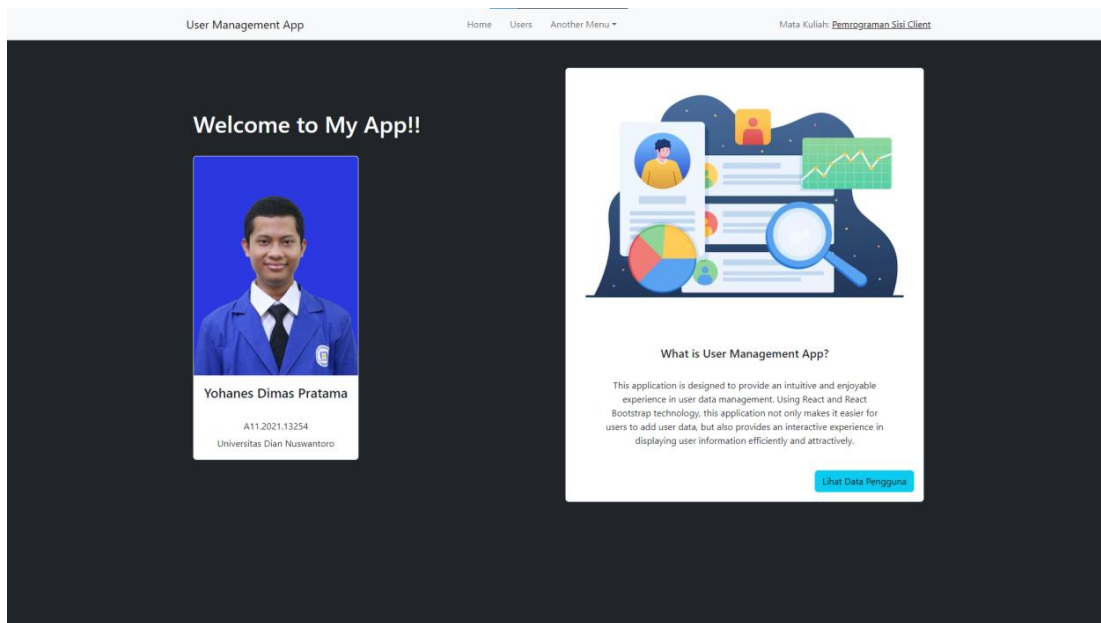
1.1 Link Deployment

<https://user-management-app-kappa.vercel.app/>

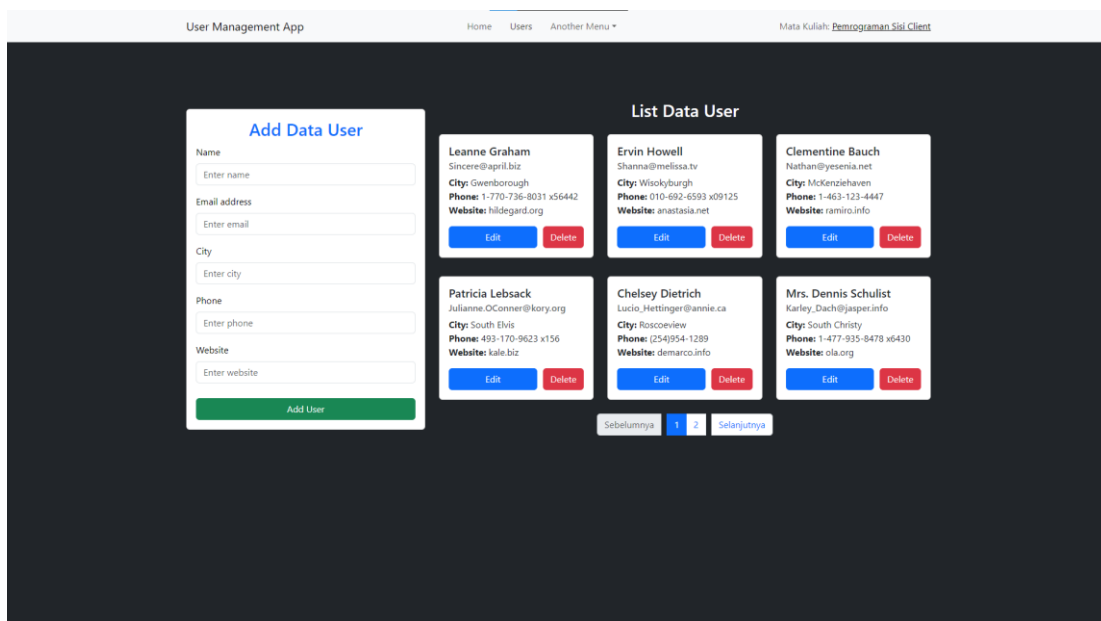
1.2 Link GitHub

<https://github.com/weztcy/User-Management-App>

1.3 Halaman Home



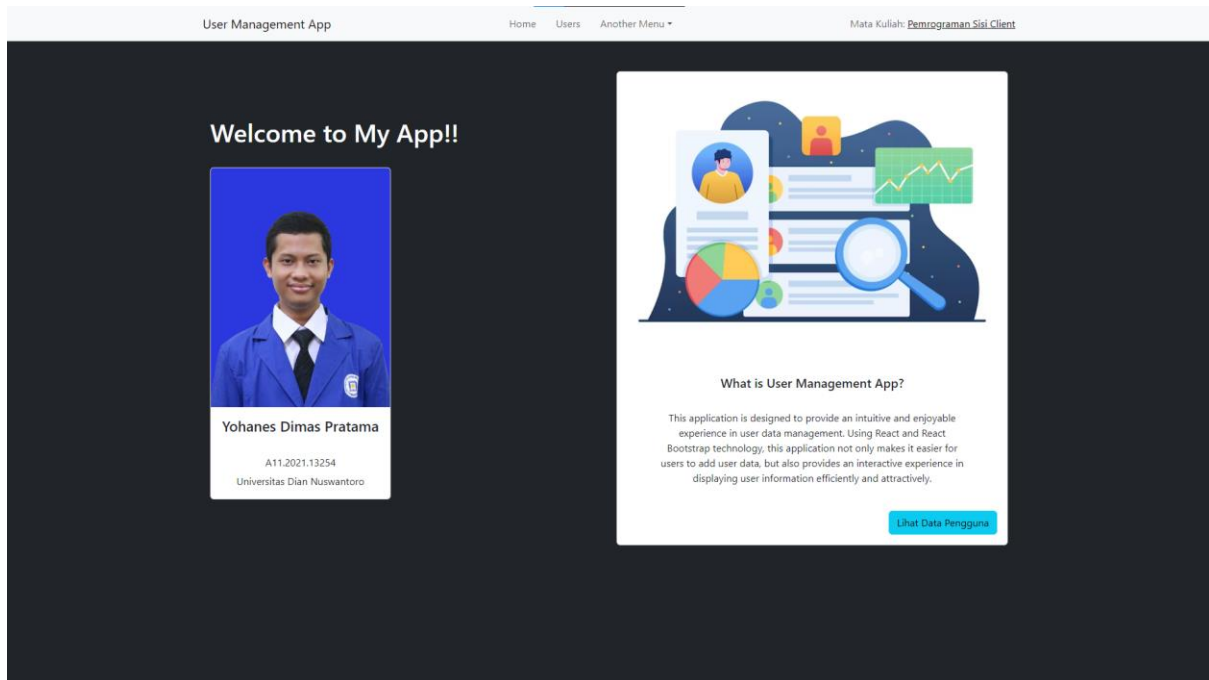
1.4 Halaman Data User



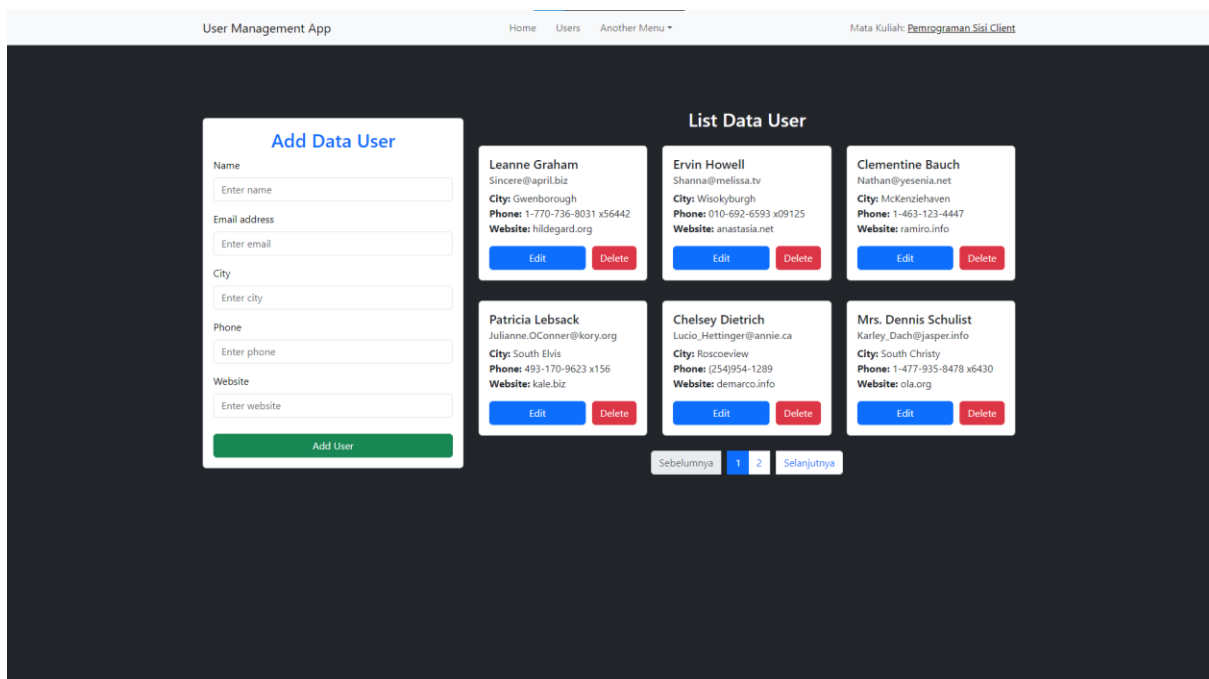
Bab 2 - Test Fitur

2.1 Tampil Data

Melihat data user dengan menekan tombol lihat data pengguna pada card di halaman home atau menekan menu users pada navbar.



Sistem menampilkan data users pada halaman users. Data users diambil dengan cara melakukan fetch API. API yang digunakan adalah <https://jsonplaceholder.typicode.com/>.



2.2 Tambah Data

Mengisi form tambah data users sesuai dengan keinginan, lalu menekan tombol add user.

The screenshot shows the 'User Management App' interface. On the left is the 'Add Data User' form with fields for Name, Email address, City, Phone, and Website. The 'List Data User' section on the right displays three user cards: Kurtis Weissnat, Nicholas Runolfsdottir V, and Glenna Reichert. Each card has 'Edit' and 'Delete' buttons. A pagination bar at the bottom indicates 'Sebelumnya', '1', '2', and 'Selanjutnya'.

Name	Email address	City	Phone	Website
Kurtis Weissnat	Telly.Hoeger@billy.biz	Howemouth	210.067.6132	elvis.io
Nicholas Runolfsdottir V	Sherwood@rosamond.me	Aliyaview	586.493.6943 x140	jacynthe.com
Glenna Reichert	Chaim_McDermott@dana.io	Bartholomebury	(775)976-6794 x41206	conrad.com
Clementina DuBuque	Rey.Padberg@karina.biz	Lebsackbury	024-648-3804	ambrose.net
Dimas Pratama	dimaspratama@gmail.com	Semarang	081451951245	usermanagement.com

Data users yang baru berhasil ditambahkan.

The screenshot shows the 'User Management App' interface after adding a new user. The 'Add Data User' form is now empty. The 'List Data User' section now displays four user cards: Kurtis Weissnat, Nicholas Runolfsdottir V, Glenna Reichert, and Dimas Pratama. Each card has 'Edit' and 'Delete' buttons. The pagination bar at the bottom indicates 'Sebelumnya', '1', '2', and 'Selanjutnya'.

Name	Email address	City	Phone	Website
Kurtis Weissnat	Telly.Hoeger@billy.biz	Howemouth	210.067.6132	elvis.io
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Glenna Reichert	Chaim_McDermott@dana.io	Bartholomebury	(775)976-6794 x41206	conrad.com
Dimas Pratama	dimaspratama@gmail.com	Semarang	081451951245	usermanagement.com

2.3 Edit Data

Mengganti data users dari Leanne Graham dengan menekan tombol edit data.

User Management App

Home Users Another Menu

Mata Kuliah: [Pemrograman Sisi Client](#)

Add Data User

Name
Enter name

Email address
Enter email

City
Enter city

Phone
Enter phone

Website
Enter website

Add User

List Data User

Leanne Graham
Sincere@april.biz
City: Gwenborough
Phone: 1-770-736-8031 x56442
Website: hildegard.org
Edit Delete

Ervin Howell
Shanna@melissa.tv
City: Wisokyburgh
Phone: 010-692-6593 x09125
Website: anastasia.net
Edit Delete

Clementine Bauch
Nathan@yesenia.net
City: McKenziehaven
Phone: 1-463-123-4447
Website: ramiro.info
Edit Delete

Patricia Lebsack
Julianne.OConner@kory.org
City: South Elvis
Phone: 493-170-9623 x156
Website: kale.biz
Edit Delete

Chelsey Dietrich
Lucio_Hettinger@annie.ca
City: Roscoeview
Phone: (254)954-1289
Website: demarco.info
Edit Delete

Mrs. Dennis Schulist
Karley_Dach@jasper.info
City: South Christy
Phone: 1-477-935-8478 x6430
Website: ola.org
Edit Delete

Sebelumnya 1 2 Selanjutnya

Menampilkan form edit data users.

User Management App

Home Users Another Menu

Mata Kuliah: [Pemrograman Sisi Client](#)

Add Data User

Name
Enter name

Email address
Enter email

City
Enter city

Phone
Enter phone

Website
Enter website

Add User

Edit User

Name
Leanne Graham

Email address
Sincere@april.biz

City
Gwenborough

Save Changes

List Data User

Leanne Graham
Sincere@april.biz
City: Gwenborough
Phone: 1-770-736-8031 x56442
Website: hildegard.org
Edit Delete

Ervin Howell
Shanna@melissa.tv
City: Wisokyburgh
Phone: 010-692-6593 x09125
Website: anastasia.net
Edit Delete

Clementine Bauch
Nathan@yesenia.net
City: McKenziehaven
Phone: 1-463-123-4447
Website: ramiro.info
Edit Delete

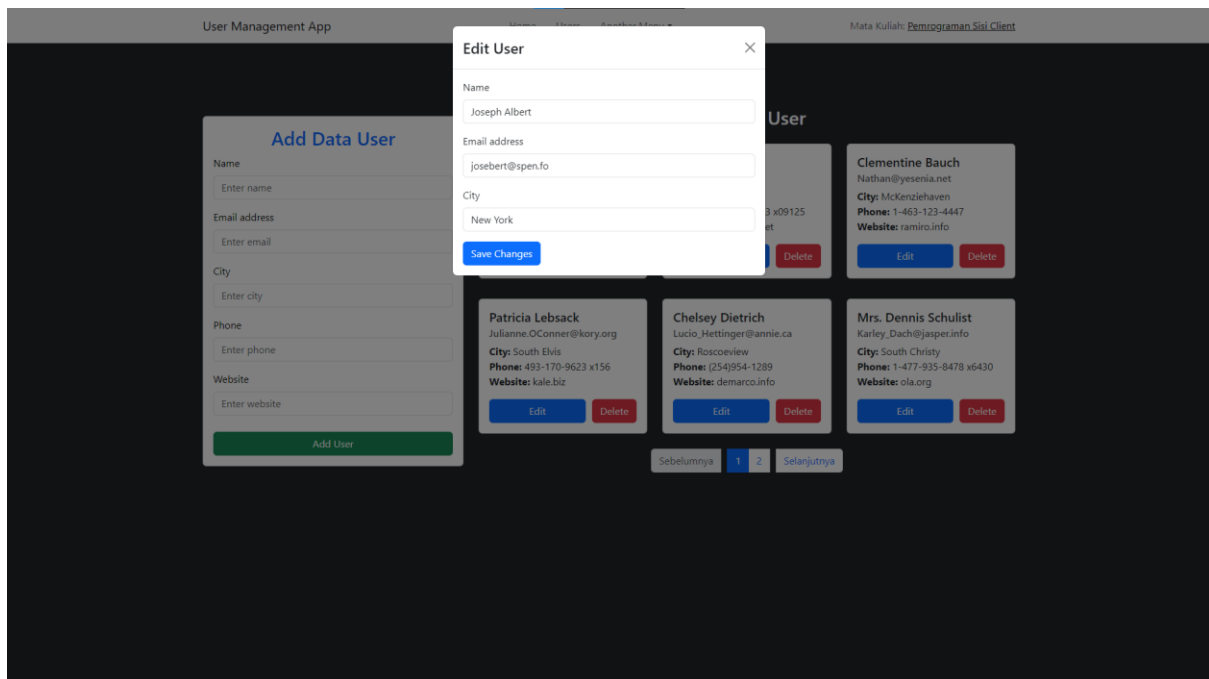
Patricia Lebsack
Julianne.OConner@kory.org
City: South Elvis
Phone: 493-170-9623 x156
Website: kale.biz
Edit Delete

Chelsey Dietrich
Lucio_Hettinger@annie.ca
City: Roscoeview
Phone: (254)954-1289
Website: demarco.info
Edit Delete

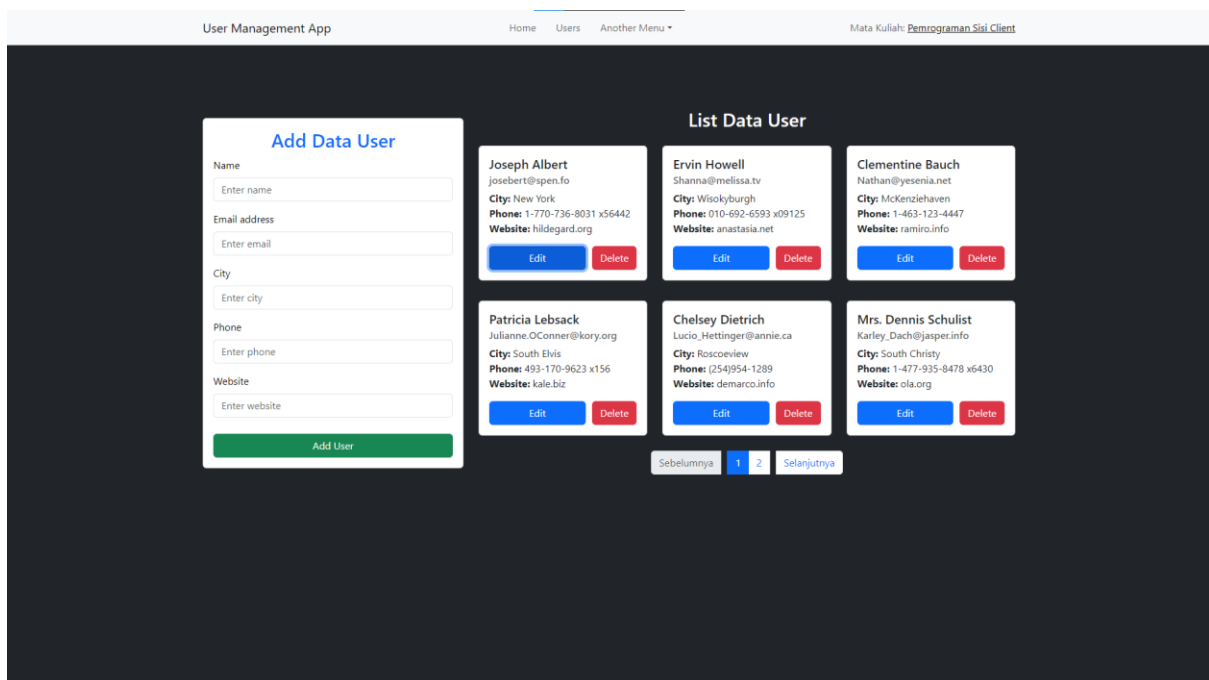
Mrs. Dennis Schulist
Karley_Dach@jasper.info
City: South Christy
Phone: 1-477-935-8478 x6430
Website: ola.org
Edit Delete

Sebelumnya 1 2 Selanjutnya

Mengganti isi form dengan data baru, lalu klik save changes.



Data users dari Leanne Graham berhasil diganti dengan data baru dari Joseph Albert.



2.4 Hapus Data

Menghapus data users dari Nicholas Runolfsdottir V dengan menekan tombol delete.

User Management App

Home Users Another Menu

Mata Kuliah: [Pemrograman Sisi Client](#)

Add Data User

Name
Enter name

Email address
Enter email

City
Enter city

Phone
Enter phone

Website
Enter website

Add User

List Data User

Kurtis Weissnat
Telly.Hoeger@billy.biz
City: Howemouth
Phone: 210.067.6132
Website: elvis.io

Edit Delete

Nicholas Runolfsdottir V
Sherwood@rosamond.me
City: Aliyaview
Phone: 586.493.6943 x140
Website: jacynth.com

Edit Delete

Glenna Reichert
Chaim_McDermott@dana.io
City: Bartholomebury
Phone: (775)976-6794 x41206
Website: conrad.com

Edit Delete

Clementina DuBuque
Rey.Padberg@karina.biz
City: Lebsackbury
Phone: 024-648-3804
Website: ambrose.net

Edit Delete

Sebelumnya 1 2 Selanjutnya

Data users dari Nicholas Runolfsdottir V berhasil dihapus.

User Management App

Home Users Another Menu

Mata Kuliah: [Pemrograman Sisi Client](#)

Add Data User

Name
Enter name

Email address
Enter email

City
Enter city

Phone
Enter phone

Website
Enter website

Add User

List Data User

Kurtis Weissnat
Telly.Hoeger@billy.biz
City: Howemouth
Phone: 210.067.6132
Website: elvis.io

Edit Delete

Glenna Reichert
Chaim_McDermott@dana.io
City: Bartholomebury
Phone: (775)976-6794 x41206
Website: conrad.com

Edit Delete

Clementina DuBuque
Rey.Padberg@karina.biz
City: Lebsackbury
Phone: 024-648-3804
Website: ambrose.net

Edit Delete

Sebelumnya 1 2 Selanjutnya

Bab 3 - Source Code

3.1 App.js

```
import React from "react";
import { BrowserRouter as Router, Route, Routes } from "react-router-dom";
import { Provider } from "react-redux";
import Navigation from "../components/Navbar";
import Home from "../pages/Home";
import Users from "../pages/Users";
import { UserProvider } from "../context/UserContext";
import store from "../redux/store";

const App = () => {
  return (
    <Provider store={store}>
      <UserProvider>
        <Router>
          <div className="App bg-dark" style={{ minHeight: "100vh" }}>
            <Navigation />
            <Routes>
              <Route exact path="/" element={<Home />} />
              <Route path="/users" element={<Users />} />
            </Routes>
          </div>
        </Router>
      </UserProvider>
    </Provider>
  );
};

export default App;
```

3.2 Home.js

```
import React from "react";
import { Container, Row, Col, Button, Card } from "react-bootstrap";
import { Link } from "react-router-dom";
import heroImage from "../assets/hero-image.jpg";
import mhsPhoto from "../assets/mhs.jpg";

import CustomCard from "../components/CustomCard";

const Home = () => {
  return (
    <div className="container mt-5">
      <Container>
        <Row className="align-items-center">
```

```

<Col md={6}>
  <h1 style={{ color: "white" }}>Welcome to My App!!</h1>
  <br />
  <CustomCard
    title="Yohanes Dimas Pratama"
    textNIM="A11.2021.13254"
    textKampus="Universitas Dian Nuswantoro"
    imageSrc={mhsPhoto}
    style={{ margin: "auto" }}
  />
</Col>
<Col md={6} className="mt-4 mt-md-0">
  <Card>
    <Card.Img variant="top" src={heroImage} alt="Hero Image" />
    <Card.Body>
      <Card.Title className="text-center">
        What is User Management App?
      </Card.Title>
      <br />
      <Card.Text className="text-center mx-5">
        This application is designed to provide an intuitive and
        enjoyable experience in user data management. Using React
and
        React Bootstrap technology, this application not only makes
it
        easier for users to add user data, but also provides an
        interactive experience in displaying user information
        efficiently and attractively.
      </Card.Text>
      <br />
      <div className="text-end">
        <Button
          as={Link}
          to="/users"
          variant="info"
          className="float-end"
        >
          Lihat Data Pengguna
        </Button>
      </div>
    </Card.Body>
  </Card>
</Col>
</Row>
</Container>
</div>
);
};

```

```
export default Home;
```

3.3 Users.js

```
import React, { useContext, useEffect, useState } from "react";
import { useDispatch, useSelector } from "react-redux";
import UserCard from "../components/UserCard";
import { UserContext } from "../context/UserContext";
import {
  setUsers,
  deleteUser,
  editUser as editUserAction,
} from "../redux/actions";
import AddUserForm from "../components/AddUserForm";
import {
  Container,
  Row,
  Col,
  Modal,
  Form,
  Button,
  Pagination,
  Card,
} from "react-bootstrap";

const Users = () => {
  const { users } = useContext(UserContext);
  const dispatch = useDispatch();
  const reduxUsers = useSelector((state) => state.users);
  const [editUser, setEditUser] = useState(null);
  const [currentPage, setCurrentPage] = useState(1);
  const usersPerPage = 6;

  useEffect(() => {
    dispatch(setUsers(users));
  }, [users, dispatch]);

  const handleDeleteUser = (userId) => {
    dispatch(deleteUser(userId));
  };

  const handleEditUser = (user) => {
    setEditUser(user);
  };

  const handleCloseEditModal = () => {
    setEditUser(null);
  };
};
```

```

const handleSaveEditedUser = () => {
  dispatch(editUserAction(editUser));
  handleCloseEditModal();
};

const indexOfLastUser = currentPage * usersPerPage;
const indexOfFirstUser = indexOfLastUser - usersPerPage;
const currentUsers = reduxUsers.slice(indexOfFirstUser, indexOfLastUser);
const totalPages = Math.ceil(reduxUsers.length / usersPerPage);

const paginate = (pageNumber) => setCurrentPage(pageNumber);

const handleNextPage = () => {
  if (currentPage < totalPages) {
    setCurrentPage(currentPage + 1);
  }
};

const handlePrevPage = () => {
  if (currentPage > 1) {
    setCurrentPage(currentPage - 1);
  }
};

return (
  <Container>
    <Row style={{ marginTop: "100px" }}>
      <Col md={4}>
        <AddUserForm />
      </Col>
      <Col md={8}>
        <Row>
          <h1
            style={{ color: "white", textAlign: "center", fontSize: "30px"
          >
            List Data User
          </h1>
          {currentUsers.map((user) => (
            <Col key={user.id} sm={12} md={6} lg={4}>
              <UserCard
                user={user}
                onDelete={handleDeleteUser}
                onEdit={handleEditUser}
              />
            </Col>
          ))}
        </Row>
      </Col>
    </Row>
  </Container>
);

```

```

</Row>
<Pagination className="justify-content-center mt-2">
  <Pagination.Prev
    onClick={handlePrevPage}
    disabled={currentPage === 1}
    style={{ marginRight: "10px" }}
  >
    Sebelumnya
  </Pagination.Prev>
  {[...Array(totalPages)].map((_, index) => (
    <Pagination.Item
      key={index + 1}
      active={index + 1 === currentPage}
      onClick={() => paginate(index + 1)}
    >
      {index + 1}
    </Pagination.Item>
  ))}
  <Pagination.Next
    onClick={handleNextPage}
    disabled={currentPage === totalPages}
    style={{ marginLeft: "10px" }}
  >
    Selanjutnya
  </Pagination.Next>
</Pagination>
</Col>
</Row>

<Modal show={!editUser} onHide={handleCloseEditModal}>
  <Modal.Header closeButton>
    <Modal.Title>Edit User</Modal.Title>
  </Modal.Header>
  <Modal.Body>
    <Form>
      <Form.Group className="mb-3" controlId="formName">
        <Form.Label>Name</Form.Label>
        <Form.Control
          type="text"
          placeholder="Enter name"
          value={editUser?.name || ""}
          onChange={(e) =>
            setEditUser({ ...editUser, name: e.target.value })
          }
          required
        />
      </Form.Group>
    </Form>
  </Modal.Body>
</Modal>

```

```

    <Form.Group className="mb-3" controlId="formEmail">
      <Form.Label>Email address</Form.Label>
      <Form.Control
        type="email"
        placeholder="Enter email"
        value={editUser?.email || ""}
        onChange={(e) =>
          setEditUser({ ...editUser, email: e.target.value })
        }
        required
      />
    </Form.Group>

    <Form.Group className="mb-3" controlId="formCity">
      <Form.Label>City</Form.Label>
      <Form.Control
        type="text"
        placeholder="Enter city"
        value={editUser?.address.city || ""}
        onChange={(e) =>
          setEditUser({
            ...editUser,
            address: { ...editUser.address, city: e.target.value },
          })
        }
        required
      />
    </Form.Group>

    <Button variant="primary" onClick={handleSaveEditedUser}>
      Save Changes
    </Button>
  </Form>
</Modal.Body>
</Modal>
</Container>
);
};

export default Users;

```

3.4 UserContext.js

```

import React, { createContext, useState, useEffect } from 'react';

export const UserContext = createContext();

export const UserProvider = ({ children }) => {
  const [users, setUsers] = useState([]);

```

```

useEffect(() => {
  const fetchUsers = async () => {
    const response = await
fetch('https://jsonplaceholder.typicode.com/users');
    const data = await response.json();
    setUsers(data);
  };
  fetchUsers();
}, []);

return (
  <UserContext.Provider value={{ users, setUsers }}>
    {children}
  </UserContext.Provider>
);
};

```

3.5 Actions.js

```

export const SET_USERS = "SET_USERS";
export const ADD_USER = "ADD_USER";
export const DELETE_USER = "DELETE_USER";
export const EDIT_USER = "EDIT_USER";

export const setUsers = (users) => ({
  type: SET_USERS,
  payload: users,
});

export const addUser = (user) => ({
  type: ADD_USER,
  payload: user,
});

export const deleteUser = (userId) => ({
  type: DELETE_USER,
  payload: userId,
});

export const editUser = (user) => ({
  type: EDIT_USER,
  payload: user,
});

```

3.6 Reducers.js

```
import { SET_USERS, ADD_USER, DELETE_USER, EDIT_USER } from "../actions";

const initialState = {
  users: [],
};

const rootReducer = (state = initialState, action) => {
  switch (action.type) {
    case SET_USERS:
      return {
        ...state,
        users: action.payload,
      };
    case ADD_USER:
      return {
        ...state,
        users: [...state.users, action.payload],
      };
    case DELETE_USER:
      return {
        ...state,
        users: state.users.filter((user) => user.id !== action.payload),
      };
    case EDIT_USER:
      return {
        ...state,
        users: state.users.map((user) =>
          user.id === action.payload.id ? { ...user, ...action.payload } :
user
        ),
      };
    default:
      return state;
  }
};

export default rootReducer;
```

3.7 Store.js

```
import { createStore, applyMiddleware } from "redux";
import { thunk } from "redux-thunk";
import rootReducer from "../reducers";

const store = createStore(rootReducer, applyMiddleware(thunk));

export default store;
```


3.8 AddUserForm.js

```
import React, { useState, useContext } from "react";
import { useDispatch } from "react-redux";
import { addUser } from "../redux/actions";
import { UserContext } from "../context/UserContext";
import { Form, Button, Card } from "react-bootstrap";

const AddUserForm = () => {
  const [name, setName] = useState("");
  const [email, setEmail] = useState("");
  const [city, setCity] = useState("");
  const [phone, setPhone] = useState("");
  const [website, setWebsite] = useState("");

  const { users, setUsers } = useContext(UserContext);
  const dispatch = useDispatch();

  const handleSubmit = (e) => {
    e.preventDefault();
    const newUser = {
      id: users.length + 1,
      name,
      email,
      address: {
        city,
      },
      phone,
      website,
    };

    setUsers([...users, newUser]);

    dispatch(addUser(newUser));

    setName("");
    setEmail("");
    setCity("");
    setPhone("");
    setWebsite("");
  };

  return (
    <Card className="my-3 add-user-form">
      <Card.Body>
        <Card.Title
          primary
          style={{ color: "#0d6efd", textAlign: "center", fontSize: "30px" }}>
```

```

>
  Add Data User
</Card.Title>
<Form
  onSubmit={handleSubmit}
  style={{ color: "black", marginTop: "10px" }}
>
  <Form.Group className="mb-3" controlId="formName">
    <Form.Label>Name</Form.Label>
    <Form.Control
      type="text"
      placeholder="Enter name"
      value={name}
      onChange={(e) => setName(e.target.value)}
      required
    />
  </Form.Group>

  <Form.Group className="mb-3" controlId="formEmail">
    <Form.Label>Email address</Form.Label>
    <Form.Control
      type="email"
      placeholder="Enter email"
      value={email}
      onChange={(e) => setEmail(e.target.value)}
      required
    />
  </Form.Group>

  <Form.Group className="mb-3" controlId="formCity">
    <Form.Label>City</Form.Label>
    <Form.Control
      type="text"
      placeholder="Enter city"
      value={city}
      onChange={(e) => setCity(e.target.value)}
      required
    />
  </Form.Group>

  <Form.Group className="mb-3" controlId="formPhone">
    <Form.Label>Phone</Form.Label>
    <Form.Control
      type="text"
      placeholder="Enter phone"
      value={phone}
      onChange={(e) => setPhone(e.target.value)}
      required

```

```

        />
      </Form.Group>

      <Form.Group className="mb-3" controlId="formWebsite">
        <Form.Label>Website</Form.Label>
        <Form.Control
          type="text"
          placeholder="Enter website"
          value={website}
          onChange={(e) => setWebsite(e.target.value)}
        />
      </Form.Group>

      <Button
        variant="success"
        type="submit"
        style={{ marginTop: "10px", width: "100%" }}
      >
        Add User
      </Button>
    </Form>
  </Card.Body>
</Card>
);
};

export default AddUserForm;

```

3.9 UserCard.jss

```

import React from "react";
import { Card, Button } from "react-bootstrap";
import "./UserCard.css";

const UserCard = ({ user, onDelete, onEdit }) => {
  if (!user) {
    return null;
  }

  const handleEditClick = () => {
    onEdit(user);
  };

  return (
    <Card className="my-3">
      <Card.Body>
        <Card.Title>{user.name}</Card.Title>
        <Card.Subtitle className="mb-2 text-
muted">{user.email}</Card.Subtitle>

```

```

    <Card.Text>
      <strong>City:</strong> {user.address.city}
      <br />
      <strong>Phone:</strong> {user.phone}
      <br />
      <strong>Website:</strong> {user.website}
    </Card.Text>
    <div className="button-container">
      <Button
        className="edit-button"
        variant="primary"
        onClick={handleEditClick}
      >
        Edit
      </Button>
      <Button
        className="delete-button"
        variant="danger"
        onClick={() => onDelete(user.id)}
      >
        Delete
      </Button>
    </div>
  </Card.Body>
</Card>
);
};

export default UserCard;

```

3.10 Navbar.js

```

import Container from "react-bootstrap/Container";
import Nav from "react-bootstrap/Nav";
import Navbar from "react-bootstrap/Navbar";
import NavDropdown from "react-bootstrap/NavDropdown";
import { Link } from "react-router-dom";

function Navigation() {
  return (
    <Navbar expand="lg" className="bg-body-tertiary">
      <Container>
        <Navbar.Brand as={Link} to="/" className="mx-auto">
          User Management App
        </Navbar.Brand>
        <Navbar.Toggle aria-controls="basic-navbar-nav" />
        <Navbar.Collapse id="basic-navbar-nav">
          <Nav className="mx-auto">
            <Nav.Link as={Link} to="/" className="mx-2">

```

```

        Home
      </Nav.Link>
      <Nav.Link as={Link} to="/users" className="mx-2">
        Users
      </Nav.Link>
      <NavDropdown
        title="Another Menu"
        id="basic-nav-dropdown"
        className="mx-2"
      >
        <NavDropdown.Item href="#action/3.1">
          Coming Soon
        </NavDropdown.Item>
        <NavDropdown.Divider />
        <NavDropdown.Item href="#action/3.2">
          Coming Soon
        </NavDropdown.Item>
        <NavDropdown.Divider />
        <NavDropdown.Item href="#action/3.3">
          Coming Soon
        </NavDropdown.Item>
        <NavDropdown.Divider />
        <NavDropdown.Item href="#action/3.4">
          Coming Soon
        </NavDropdown.Item>
      </NavDropdown>
    </Nav>
    <Navbar.Text>
      Mata Kuliah: <a href="#login">Pemrograman Sisi Client</a>
    </Navbar.Text>
  </Navbar.Collapse>
</Container>
</Navbar>
);
}

export default Navigation;

```

3.11 CustomCard.js

```

import React from "react";
import Card from "react-bootstrap/Card";

function CustomCard({ title, textNIM, textKampus, imageSrc }) {
  return (
    <Card style={{ width: "18rem" }}>
      <Card.Img variant="top" src={imageSrc} />
      <Card.Body>
        <Card.Title className="text-center" style={{ fontSize: "23px" }}>

```

```

        {title}
      </Card.Title>
      <br />
      <Card.Text className="text-center" style={{ fontSize: "16px" }}>
        {textNIM}
      </Card.Text>
      <Card.Text
        className="text-center"
        style={{ fontSize: "16px", marginTop: "-10px" }}
      >
        {textKampus}
      </Card.Text>
    </Card.Body>
  </Card>
);
}

export default CustomCard;

```