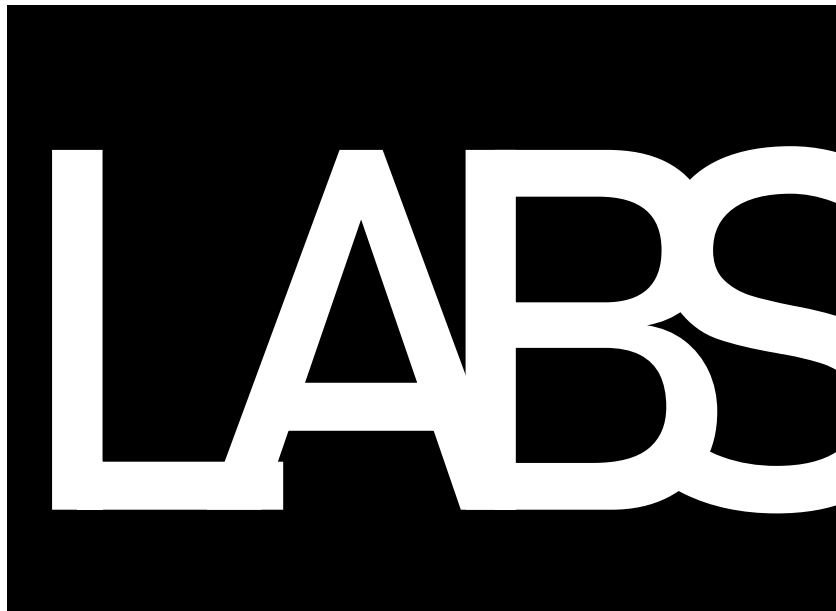Wednesday, May 7, 2025

AIR UNIVERSITY

FULL STACK WEB DEVELOPMENT

LABS

Frontend Two Pages of Our Semester Project

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The Frontend:

App.js

```javascript
import React from "react";
import { BrowserRouter as Router, Routes, Route } from
"react-router-dom";
import { Container } from "react-bootstrap";
import Navbar from "./components/Navbar";
import MedicineForm from "./components/MedicineForm";
import MedicineList from "./components/MedicineList";
import Home from "./components/Home";

function App() {
  return (
    <Router>
      <Navbar />
      <Container>
        <Routes>
          <Route path="/" element={<Home />} />
          <Route path="/add" element={<MedicineForm
/>} />
          <Route path="/list" element={<MedicineList
/>} />
        </Routes>
      </Container>
    </Router>
  );
}

export default App;
```

Home.js

```javascript
import React from "react";
import { Link } from "react-router-dom";

const Home = () => {
```

```jsx
    return (
        <div className="d-flex align-items-center
justify-content-center vh-100">
            <div className="d-flex flex-wrap gap-3
justify-content-center">
                <Link to="/add" className="text-
decoration-none">
                    <div
                        className="card bg-success
text-white"
                        style={{ width: "300px" }}
                    >
                        <div className="card-body
text-center">
                            <h1>
                                <i
                                    className="bi bi-
receipt-cutoff m-0"
                                    style={{ fontSize:
"100px" }}
                                ></i>
                            </h1>
                            <h1 className="display-6
fst-italic">
                                Generate Sale Receipt
                            </h1>
                        </div>
                    </div>
                </Link>

                <Link to="/list" className="text-
decoration-none">
                    <div
                        className="card bg-primary
text-white"
                        style={{ width: "300px" }}
                    >
```

```jsx
                            <div className="card-body
text-center">
                                    <h1>
                                        <i
                                            className="bi bi-
capsule m-0"
                                            style={{ fontSize:
"100px" }}
                                        ></i>
                                    </h1>
                                    <h1 className="display-6
fst-italic">
                                        Manage Medicine
                                    </h1>
                                </div>
                            </div>
                        </Link>
                        <Link to="/add" className="text-
decoration-none">
                            <div className="card bg-warning"
style={{ width: "300px" }}>
                                <div className="card-body
text-center">
                                    <h1>
                                        <i
                                            className="bi bi-
person-fill m-0"
                                            style={{ fontSize:
"100px" }}
                                        ></i>
                                    </h1>
                                    <h1 className="display-6
fst-italic">
                                        Manage Customers
                                    </h1>
                                </div>
                            </div>
                        </Link>
```

```
        </div>
      </div>
   );
};


export default Home;
```

MedicineForm.js

```javascript
import React, { useState } from 'react';
import { Form, Button } from 'react-bootstrap';

const MedicineForm = ({ addMedicine }) => {
  const [form, setForm] = useState({ name: '',
manufacturer: '', price: '', quantity: '' });

  const handleChange = (e) => {
    setForm({ ...form, [e.target.name]: e.target.value
});
  };

  const handleSubmit = (e) => {
    e.preventDefault();
    addMedicine(form);
    setForm({ name: '', manufacturer: '', price: '',
quantity: '' });
  };

  return (
    <Form onSubmit={handleSubmit} className="my-4">
      <Form.Group>
        <Form.Label>Name</Form.Label>
        <Form.Control name="name" value={form.name}
onChange={handleChange} required />
      </Form.Group>
      <Form.Group>
        <Form.Label>Manufacturer</Form.Label>
        <Form.Control name="manufacturer"
value={form.manufacturer} onChange={handleChange}
required />
```

```jsx
        </Form.Group>
        <Form.Group>
          <Form.Label>Price</Form.Label>
          <Form.Control type="number" name="price"
value={form.price} onChange={handleChange} required />
        </Form.Group>
        <Form.Group>
          <Form.Label>Quantity</Form.Label>
          <Form.Control type="number" name="quantity"
value={form.quantity} onChange={handleChange} required
/>
        </Form.Group>
        <Button type="submit" className="mt-2">Add
Medicine</Button>
      </Form>
  );
};

export default MedicineForm;
```

MedicineList.js

```jsx
import React, { useEffect, useState } from 'react';
import { Table, Button } from 'react-bootstrap';
import axios from 'axios';

const MedicineList = () => {
  const [medicines, setMedicines] = useState([]);

  useEffect(() => {
    const fetchData = async () => {
      const res = await
axios.get('http://localhost:5000/api/medicines');
      setMedicines(res.data);
    };
    fetchData();
  }, []);

  const deleteMedicine = async (id) => {
```

```jsx
    await
axios.delete(`http://localhost:5000/api/medicines/${id
}`);
    setMedicines(medicines.filter(med => med._id !==
id));
  };

  return (
    <Table striped bordered hover className="mt-4">
      <thead>
        <tr>
          <th>Name</th>
          <th>Manufacturer</th>
          <th>Price</th>
          <th>Quantity</th>
          <th>Actions</th>
        </tr>
      </thead>
      <tbody>
        {medicines.map((med) => (
          <tr key={med._id}>
            <td>{med.name}</td>
            <td>{med.manufacturer}</td>
            <td>{med.price}</td>
            <td>{med.quantity}</td>
            <td>
              <Button variant="danger" onClick={() =>
deleteMedicine(med._id)}>
                Delete
              </Button>
            </td>
          </tr>
        ))}
      </tbody>
    </Table>
  );
};
```

```
export default MedicineList;
```

Navbar.js

```javascript
import React from "react";
import { Navbar as RBNavbar, Nav, Container } from
"react-bootstrap";
import { Link } from "react-router-dom";

const Navbar = () => (
    <RBNavbar bg="dark" variant="dark" expand="lg">
        <Container>
            <RBNavbar.Brand as={Link} to="/">
                Pharmacy Management System
            </RBNavbar.Brand>
            <RBNavbar.Toggle aria-controls="basic-
navbar-nav" />
            <RBNavbar.Collapse id="basic-navbar-nav">
                <Nav className="me-auto">
                    <Nav.Link as={Link} to="/">
                        Home
                    </Nav.Link>
                    <Nav.Link as={Link} to="/add">
                        Add Medicine
                    </Nav.Link>
                    <Nav.Link as={Link} to="/list">
                        Medicine List
                    </Nav.Link>
                </Nav>
            </RBNavbar.Collapse>
        </Container>
    </RBNavbar>
);

export default Navbar;
```