**App.tsx**

```tsx
1  import React from 'react';
2  import { BrowserRouter as Router, Routes, Route, Navigate } from 'react-router-dom';
3  import { AuthProvider } from './contexts/AuthContext';
4  import { ProtectedRoute } from './components/ProtectedRoute';
5  import { Layout } from './components/layout/Layout';
6  import { Login } from './pages/Login';
7  import { Register } from './pages/Register';
8  import { Dashboard } from './pages/Dashboard';
9  import { Courses } from './pages/Courses';
10 import { MarksPage } from './pages/Marks';
11 import { Fees } from './pages/Fees';
12
13 function App() {
14   return (
15     <AuthProvider>
16       <Router>
17         <Routes>
18           {/* Public Routes */}
19           <Route path="/login" element={<Login />} />
20           <Route path="/register" element={<Register />} />
21
22           {/* Protected Routes */}
23           <Route path="/dashboard" element={
24             <ProtectedRoute>
25               <Layout>
26                 <Dashboard />
27               </Layout>
28             </ProtectedRoute>
29           } />
30
31           <Route path="/courses" element={
32             <ProtectedRoute>
33               <Layout>
34                 <Courses />
35               </Layout>
36             </ProtectedRoute>
37           } />
38
39           <Route path="/marks" element={
40             <ProtectedRoute>
41               <Layout>
42                 <MarksPage />
43               </Layout>
44             </ProtectedRoute>
45           } />
46
47           <Route path="/fees" element={
48             <ProtectedRoute>
49               <Layout>
50                 <Fees />
51               </Layout>
```

```tsx
52              </ProtectedRoute>
53            } />
54
55            {/* Additional protected routes would go here */}
56            <Route path="/students" element={
57              <ProtectedRoute>
58                <Layout>
59                  <div className="text-center py-12">
60                    <h2 className="text-2xl font-bold text-gray-900">Students
    Management</h2>
61                    <p className="text-gray-600 mt-2">Coming soon...</p>
62                  </div>
63                </Layout>
64              </ProtectedRoute>
65            } />
66
67            <Route path="/faculty" element={
68              <ProtectedRoute>
69                <Layout>
70                  <div className="text-center py-12">
71                    <h2 className="text-2xl font-bold text-gray-900">Faculty Management</h2>
72                    <p className="text-gray-600 mt-2">Coming soon...</p>
73                  </div>
74                </Layout>
75              </ProtectedRoute>
76            } />
77
78            <Route path="/reports" element={
79              <ProtectedRoute>
80                <Layout>
81                  <div className="text-center py-12">
82                    <h2 className="text-2xl font-bold text-gray-900">Reports</h2>
83                    <p className="text-gray-600 mt-2">Coming soon...</p>
84                  </div>
85                </Layout>
86              </ProtectedRoute>
87            } />
88
89            <Route path="/settings" element={
90              <ProtectedRoute>
91                <Layout>
92                  <div className="text-center py-12">
93                    <h2 className="text-2xl font-bold text-gray-900">Settings</h2>
94                    <p className="text-gray-600 mt-2">Coming soon...</p>
95                  </div>
96                </Layout>
97              </ProtectedRoute>
98            } />
99
100            {/* Default redirect */}
101            <Route path="/" element={<Navigate to="/dashboard" replace />} />
102          </Routes>
103        </Router>
104      </AuthProvider>
```

```
105        );
106    }
107
108    export default App;
```