

# Student Activities - Frontend Code (React.js)

## Project Structure

```
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└── .env
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```

## 1. package.json

```
{
  "name": "student-activities-frontend",
  "version": "1.0.0",
  "description": "Frontend for Student Activities Notice Board",
  "private": true,
  "dependencies": {
    "react": "^18.2.0",
    "react-dom": "^18.2.0",
    "react-router-dom": "^6.20.0",
    "axios": "^1.6.2",
    "react-icons": "^4.12.0"
  },
  "scripts": {
    "start": "react-scripts start",
    "build": "react-scripts build",
    "test": "react-scripts test",
    "eject": "react-scripts eject"
  },
  "devDependencies": {
    "react-scripts": "5.0.1"
  },
  "browserslist": {
    "production": [
      ">0.2%",
      "not dead",
      "not op_mini all"
    ]
  }
}
```

```
        "not op_mini all"
    ],
    "development": [
        "last 1 chrome version",
        "last 1 firefox version",
        "last 1 safari version"
    ]
}
```

## 2. .env

```
REACT_APP_API_URL=http://localhost:5000/api
```

## 3. src/index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);

```

## 4. src/index.css

```
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto', 'Oxygen',
  'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',
  sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  background-color: #f5f5f5;
}

.container {
  max-width: 1200px;
  margin: 0 auto;
  padding: 20px;
}

.card {
  background: white;
  border-radius: 8px;
  padding: 20px;
  margin-bottom: 20px;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}

.btn {
  padding: 10px 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  font-size: 14px;
  transition: all 0.3s;
}
```

```
.btn-primary {
  background-color: #007bff;
  color: white;
}

.btn-primary:hover {
  background-color: #0056b3;
}

.btn-success {
  background-color: #28a745;
  color: white;
}

.btn-danger {
  background-color: #dc3545;
  color: white;
}

.form-group {
  margin-bottom: 15px;
}

.form-group label {
  display: block;
  margin-bottom: 5px;
  font-weight: 500;
}

.form-group input,
.form-group select,
.form-group textarea {
  width: 100%;
  padding: 10px;
  border: 1px solid #ddd;
  border-radius: 4px;
  font-size: 14px;
}

.form-group textarea {
  min-height: 100px;
  resize: vertical;
}

.alert {
  padding: 12px 20px;
  border-radius: 4px;
  margin-bottom: 20px;
}

.alert-success {
  background-color: #d4edda;
  color: #155724;
  border: 1px solid #c3e6cb;
}

.alert-error {
  background-color: #f8d7da;
  color: #721c24;
  border: 1px solid #f5c6cb;
}

.navbar {
  background-color: #343a40;
  color: white;
  padding: 15px 20px;
  display: flex;
  justify-content: space-between;
  align-items: center;
}
```

```

.navbar h1 {
  font-size: 24px;
}

.navbar-links {
  display: flex;
  gap: 20px;
}

.navbar-links a {
  color: white;
  text-decoration: none;
  padding: 8px 15px;
  border-radius: 4px;
  transition: background-color 0.3s;
}

.navbar-links a:hover {
  background-color: #495057;
}

.grid {
  display: grid;
  grid-template-columns: repeat(auto-fill, minmax(300px, 1fr));
  gap: 20px;
}

.loading {
  text-align: center;
  padding: 40px;
  font-size: 18px;
  color: #666;
}

.badge {
  display: inline-block;
  padding: 4px 8px;
  border-radius: 4px;
  font-size: 12px;
  font-weight: 500;
}

.badge-academic {
  background-color: #007bff;
  color: white;
}

.badge-club {
  background-color: #28a745;
  color: white;
}

.badge-pdf {
  background-color: #dc3545;
  color: white;
}

.badge-text {
  background-color: #6c757d;
  color: white;
}

```

## 5. src/App.jsx

```

import React from 'react';
import { BrowserRouter as Router, Routes, Route } from 'react-router-dom';
import { AuthProvider } from './context/AuthContext';
import ProtectedRoute from './components/ProtectedRoute';
import Navbar from './components/Layout/Navbar';

```

```

// Pages
import Login from './pages/Login';
import Register from './pages/Register';
import Dashboard from './pages/Dashboard';
import AcademicNotices from './pages/AcademicNotices';
import ClubActivities from './pages/ClubActivities';
import CreateNotice from './pages/CreateNotice';
import AdminPanel from './pages/AdminPanel';

function App() {
  return (
    <Router>
      <AuthProvider>
        <div>
          <Navbar />
          <Routes>
            <Route path="/" element={<Login />} />
            <Route path="/register" element={<Register />} />

            <Route element={<ProtectedRoute />}>
              <Route path="/dashboard" element={<Dashboard />} />
              <Route path="/academic" element={<AcademicNotices />} />
              <Route path="/clubs" element={<ClubActivities />} />
              <Route path="/create-notice" element={<CreateNotice />} />
              <Route path="/admin" element={<AdminPanel />} />
            </Route>
          </Routes>
        </div>
      </AuthProvider>
    </Router>
  );
}

export default App;

```

## 6. src/context/AuthContext.jsx

```

import React, { createContext, useState, useContext, useEffect } from 'react';
import api from '../services/api';

const AuthContext = createContext(null);

export const AuthProvider = ({ children }) => {
  const [user, setUser] = useState(null);
  const [loading, setLoading] = useState(true);
  const [token, setToken] = useState(localStorage.getItem('token') || null);

  useEffect(() => {
    // Check if user is logged in on mount
    const checkAuth = async () => {
      const storedToken = localStorage.getItem('token');
      if (storedToken) {
        try {
          const response = await api.get('/auth/me');
          setUser(response.data.user);
          setToken(storedToken);
        } catch (error) {
          console.error('Authentication check failed:', error);
          localStorage.removeItem('token');
          setToken(null);
        }
      }
      setLoading(false);
    };
    checkAuth();
  }, []);

  const login = async (email, password) => {
    try {

```

```

const response = await api.post('/auth/login', { email, password });
const { token, user } = response.data;

localStorage.setItem('token', token);
setToken(token);
setUser(user);

return { success: true };
} catch (error) {
return {
success: false,
message: error.response?.data?.message || 'Login failed',
};
}
};

const register = async (userData) => {
try {
const response = await api.post('/auth/register', userData);
const { token, user } = response.data;

localStorage.setItem('token', token);
setToken(token);
setUser(user);

return { success: true };
} catch (error) {
return {
success: false,
message: error.response?.data?.message || 'Registration failed',
};
}
};

const logout = () => {
localStorage.removeItem('token');
setToken(null);
setUser(null);
};

const value = {
user,
token,
loading,
login,
register,
logout,
isAuthenticated: !!user,
};

return <AuthContext.Provider value={value}>{children}</AuthContext.Provider>;
};

export const useAuth = () => {
const context = useContext(AuthContext);
if (!context) {
throw new Error('useAuth must be used within an AuthProvider');
}
return context;
};

```

## 7. src/services/api.js

```

import axios from 'axios';

const api = axios.create({
baseURL: process.env.REACT_APP_API_URL || 'http://localhost:5000/api',
headers: {
'Content-Type': 'application/json',
},

```

```

};

// Add token to requests
api.interceptors.request.use(
  (config) => {
    const token = localStorage.getItem('token');
    if (token) {
      config.headers.Authorization = `Bearer ${token}`;
    }
    return config;
  },
  (error) => {
    return Promise.reject(error);
  }
);

// Handle response errors
api.interceptors.response.use(
  (response) => response,
  (error) => {
    if (error.response?.status === 401) {
      localStorage.removeItem('token');
      window.location.href = '/';
    }
    return Promise.reject(error);
  }
);

export default api;

```

## 8. src/components/ProtectedRoute.jsx

```

import React from 'react';
import { Navigate, Outlet } from 'react-router-dom';
import { useAuth } from '../context/AuthContext';

const ProtectedRoute = ({ allowedRoles }) => {
  const { user, loading } = useAuth();

  if (loading) {
    return <div>Loading...</div>;
  }

  if (!user) {
    return <Navigate to="/" replace />;
  }

  if (allowedRoles && !allowedRoles.includes(user.role)) {
    return <Navigate to="/dashboard" replace />;
  }

  return <Outlet />;
};

export default ProtectedRoute;

```

## 9. src/components/Layout/Navbar.jsx

```

import React from 'react';
import { Link, useNavigate } from 'react-router-dom';
import { useAuth } from '../../context/AuthContext';

const Navbar = () => {
  const { user, logout, isAuthenticated } = useAuth();
  const navigate = useNavigate();

  const handleLogout = () => {
    logout();
  }

```

```

        navigate('/');
    };

    return (
        <nav className="navbar">
            <h1>Student Activities</h1>
            {isAuthenticated && (
                <div>
                    <Link to="/dashboard">Dashboard</Link>;
                    <Link to="/academic">Academic</Link>;
                    <Link to="/clubs">Clubs</Link>;
                    {(user.canPost || user.role === 'admin') && (
                        <Link to="/create-notice">Create Notice</Link>;
                    )}
                    {user.role === 'admin' && (
                        <Link to="/admin">Admin Panel</Link>;
                    )}
                    <span>
                        {user.name} ({user.role})
                    </span>
                    <button
                        className="btn btn-danger"
                        onClick={handleLogout}
                        style={{ marginLeft: '10px' }}
                    >
                        Logout
                    </button>
                </div>
            )}
        </nav>;
    );
}

export default Navbar;

```

## 10. src/components/Notice/NoticeCard.jsx

```

import React from 'react';
import { FiCalendar, FiUser, FiFileText } from 'react-icons/fi';
import { BsFilePdf } from 'react-icons/bs';

const NoticeCard = ({ notice, onDelete, canDelete }) => {
    const formatDate = (date) => {
        return new Date(date).toLocaleDateString('en-US', {
            year: 'numeric',
            month: 'long',
            day: 'numeric',
        });
    };

    const handleViewPDF = () => {
        if (notice.pdfFile?.path) {
            window.open(
                `http://localhost:5000/${notice.pdfFile.path}`,
                '_blank'
            );
        }
    };

    return (
        <div>
            <div>
                <span>
                    {notice.type.toUpperCase()}
                </span>
                <span>
                    {notice.format.toUpperCase()}
                </span>
            </div>
        </div>
    );
}

```

```

<h3>
  {notice.title}
</h3>

{notice.format === 'text' && notice.content && (
  <p>
    {notice.content.substring(0, 150)}
    {notice.content.length > 150 && '...' }
  </p>
)};

{notice.format === 'pdf' && notice.pdfFile && (
  &lt;button
    className="btn btn-primary"
    onClick={handleViewPDF}
    style={{ marginBottom: '15px', display: 'flex', alignItems: 'center', gap: '5px' }}
  &gt;
    &lt;BsFilePdf /&gt; View PDF
  &lt;/button&gt;
)};

<div>
  <div>
    &lt;FiUser /&gt;
    <span>Posted by: {notice.postedBy?.name || 'Unknown'}</span>
  </div>
  <div>
    &lt;FiCalendar /&gt;
    <span>{formatDate(notice.createdAt)}</span>
  </div>
  {notice.department && (
    <div>
      &lt;FiFileText /&gt;
      <span>Department: {notice.department.name}</span>
    </div>
  )};
  {notice.club && (
    <div>
      &lt;FiFileText /&gt;
      <span>Club: {notice.club.name}</span>
    </div>
  )};
</div>

{canDelete && (
  &lt;button
    className="btn btn-danger"
    onClick={() => onDelete(notice._id)}
    style={{ marginTop: '15px' }}
  &gt;
    Delete
  &lt;/button&gt;
)
};

export default NoticeCard;

```

## 11. src/components/Notice/NoticeForm.jsx

```

import React, { useState, useEffect } from 'react';
import api from '../..../services/api';

const NoticeForm = ({ onSuccess }) => {
  const [formData, setFormData] = useState({
    title: '',
    content: '',
    type: 'academic',
    format: 'text',
  });

```

```
        department: '',
        club: '',
    });
const [pdfFile, setPdfFile] = useState(null);
const [departments, setDepartments] = useState([]);
const [clubs, setClubs] = useState([]);
const [loading, setLoading] = useState(false);
const [error, setError] = useState('');
const [success, setSuccess] = useState('');

useEffect(() => {
    fetchDepartments();
    fetchClubs();
}, []);

const fetchDepartments = async () => {
    try {
        const response = await api.get('/departments');
        setDepartments(response.data.departments);
    } catch (error) {
        console.error('Error fetching departments:', error);
    }
};

const fetchClubs = async () => {
    try {
        const response = await api.get('/clubs');
        setClubs(response.data.clubs);
    } catch (error) {
        console.error('Error fetching clubs:', error);
    }
};

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

const handleFileChange = (e) => {
    setPdfFile(e.target.files[0]);
};

const handleSubmit = async (e) => {
    e.preventDefault();
    setLoading(true);
    setError('');
    setSuccess('');

    try {
        const submitData = new FormData();
        submitData.append('title', formData.title);
        submitData.append('type', formData.type);
        submitData.append('format', formData.format);

        if (formData.format === 'text') {
            submitData.append('content', formData.content);
        } else if (formData.format === 'pdf' && pdfFile) {
            submitData.append('pdfFile', pdfFile);
        }

        if (formData.type === 'academic' && formData.department) {
            submitData.append('department', formData.department);
        } else if (formData.type === 'club' && formData.club) {
            submitData.append('club', formData.club);
        }

        await api.post('/notices', submitData, {
            headers: {
                'Content-Type': 'multipart/form-data',
            },
        });
    } catch (error) {
        setError(error.message);
    } finally {
        setLoading(false);
    }
};
```

```

    });

    setSuccess('Notice created successfully!');
    setFormData({
      title: '',
      content: '',
      type: 'academic',
      format: 'text',
      department: '',
      club: '',
    });
    setPdfFile(null);

    if (onSuccess) {
      onSuccess();
    }
  } catch (error) {
    setError(error.response?.data?.message || 'Failed to create notice');
  } finally {
    setLoading(false);
  }
};

return (
  <div>
    <h2>Create New Notice</h2>
    {error && <div>{error}</div>}
    {success && <div>{success}</div>}

    &lt;form onSubmit={handleSubmit}&gt;
      <div>
        &lt;label&gt;Title *&lt;/label&gt;
        &lt;input
          type="text"
          name="title"
          value={formData.title}
          onChange={handleChange}
          required
        /&gt;
      </div>

      <div>
        &lt;label&gt;Type *&lt;/label&gt;
        &lt;select name="type" value={formData.type} onChange={handleChange} required&gt;
          &lt;option value="academic"&gt;Academic&lt;/option&gt;
          &lt;option value="club"&gt;Club&lt;/option&gt;
        &lt;/select&gt;
      </div>

      <div>
        &lt;label&gt;Format *&lt;/label&gt;
        &lt;select name="format" value={formData.format} onChange={handleChange} required&gt;
          &lt;option value="text"&gt;Text&lt;/option&gt;
          &lt;option value="pdf"&gt;PDF&lt;/option&gt;
        &lt;/select&gt;
      </div>

      {formData.type === 'academic' && (
        <div>
          &lt;label&gt;Department&lt;/label&gt;
          &lt;select name="department" value={formData.department} onChange={handleChange}&gt;
            &lt;option value=""&gt;Select Department&lt;/option&gt;
            {departments.map((dept) =&gt; (
              &lt;option key={dept._id} value={dept._id}&gt;
                {dept.name}
              &lt;/option&gt;
            )))
          &lt;/select&gt;
        </div>
      )}
    
```

```

        <div>
          &lt;label&gt;Club&lt;/label&gt;;
          &lt;select name="club" value={formData.club} onChange={handleChange}&gt;
            &lt;option value=""&gt;Select Club&lt;/option&gt;;
            {clubs.map((club) => (
              &lt;option key={club._id} value={club._id}&gt;
                {club.name}
              &lt;/option&gt;;
            )));
          &lt;/select&gt;;
        </div>
      )}

{formData.format === 'text' && (
  <div>
    &lt;label&gt;Content *&lt;/label&gt;;
    &lt;textarea
      name="content"
      value={formData.content}
      onChange={handleChange}
      required={formData.format === 'text'}
    /&gt;;
  </div>
)};

{formData.format === 'pdf' && (
  <div>
    &lt;label&gt;Upload PDF *&lt;/label&gt;;
    &lt;input
      type="file"
      accept=".pdf"
      onChange={handleFileChange}
      required={formData.format === 'pdf'}
    /&gt;;
  </div>
)};

<button type="submit" className="btn btn-primary" disabled={loading}&gt;
  {loading ? 'Creating...' : 'Create Notice'}
</button>;
</form>;
</div>
);

export default NoticeForm;

```

## 12. src/components/Notice/NoticeList.jsx

```

import React, { useState, useEffect } from 'react';
import api from '../../services/api';
import NoticeCard from './NoticeCard';
import { useAuth } from '../../context/AuthContext';

const NoticeList = ({ type, department, club }) => {
  const [notices, setNotices] = useState([]);
  const [loading, setLoading] = useState(true);
  const { user } = useAuth();

  useEffect(() => {
    fetchNotices();
  }, [type, department, club]);

  const fetchNotices = async () => {
    try {
      let url = '/notices?';
      if (type) url += `type=${type}&`;
      if (department) url += `department=${department}&`;
      if (club) url += `club=${club}&`;
    }
  }
}
```

```

    const response = await api.get(url);
    setNotices(response.data.notices);
} catch (error) {
  console.error('Error fetching notices:', error);
} finally {
  setLoading(false);
}
};

const handleDelete = async (noticeId) => {
  if (window.confirm('Are you sure you want to delete this notice?')) {
    try {
      await api.delete(`/notices/${noticeId}`);
      fetchNotices();
    } catch (error) {
      alert('Failed to delete notice');
    }
  }
};

const canDeleteNotice = (notice) => {
  return (
    user.role === 'admin' ||
    notice.postedBy?._id === user.id
  );
};

if (loading) {
  return <div>Loading notices...</div>;
}

if (notices.length === 0) {
  return (
    <div>
      <p>No notices available.</p>
    </div>
  );
}

return (
  <div>
    {notices.map((notice) => (
      <NoticeCard
        key={notice._id}
        notice={notice}
        onDelete={handleDelete}
        canDelete={canDeleteNotice(notice)}
      />
    ))}
  </div>
);
};

export default NoticeList;

```

### 13. src/components/Admin/UserManagement.jsx

```

import React, { useState, useEffect } from 'react';
import api from '../../services/api';

const UserManagement = () => {
  const [users, setUsers] = useState([]);
  const [loading, setLoading] = useState(true);

  useEffect(() => {
    fetchUsers();
  }, []);

  const fetchUsers = async () => {
    try {

```

```

const response = await api.get('/users');
setUsers(response.data.users);
} catch (error) {
  console.error('Error fetching users:', error);
} finally {
  setLoading(false);
}
};

const togglePostingPrivilege = async (userId, currentStatus) => {
  try {
    await api.put(`users/${userId}/privileges`, {
      canPost: !currentStatus,
    });
    fetchUsers();
  } catch (error) {
    alert('Failed to update privileges');
  }
};

const updateRole = async (userId, newRole) => {
  try {
    await api.put(`users/${userId}/role`, { role: newRole });
    fetchUsers();
  } catch (error) {
    alert('Failed to update role');
  }
};

if (loading) {
  return <div>Loading users...</div>;
}

return (
  <div>
    <h2>User Management</h2>
    <div>
      &lt;table style={{ width: '100%', borderCollapse: 'collapse' }}&gt;
        &lt;thead&gt;
          &lt;tr style={{ borderBottom: '2px solid #dee2e6' }}&gt;
            &lt;th style={{ padding: '12px', textAlign: 'left' }}&gt;Name&lt;/th&gt;
            &lt;th style={{ padding: '12px', textAlign: 'left' }}&gt;Email&lt;/th&gt;
            &lt;th style={{ padding: '12px', textAlign: 'left' }}&gt;Role&lt;/th&gt;
            &lt;th style={{ padding: '12px', textAlign: 'left' }}&gt;Can Post&lt;/th&gt;
            &lt;th style={{ padding: '12px', textAlign: 'left' }}&gt;Actions&lt;/th&gt;
          &lt;/tr&gt;
        &lt;/thead&gt;
        &lt;tbody&gt;
          {users.map((user) => (
            &lt;tr key={user._id} style={{ borderBottom: '1px solid #dee2e6' }}&gt;
              &lt;td style={{ padding: '12px' }}&gt;{user.name}&lt;/td&gt;
              &lt;td style={{ padding: '12px' }}&gt;{user.email}&lt;/td&gt;
              &lt;td style={{ padding: '12px' }}&gt;
                &lt;select
                  value={user.role}
                  onChange={(e) => updateRole(user._id, e.target.value)}
                  style={{ padding: '5px' }}
                &gt;
                  &lt;option value="student"&gt;Student&lt;/option&gt;
                  &lt;option value="faculty"&gt;Faculty&lt;/option&gt;
                  &lt;option value="club_member"&gt;Club Member&lt;/option&gt;
                  &lt;option value="admin"&gt;Admin&lt;/option&gt;
                &lt;/select&gt;
              &lt;/td&gt;
              &lt;td style={{ padding: '12px' }}&gt;
                &lt;input
                  type="checkbox"
                  checked={user.canPost}
                  onChange={() => togglePostingPrivilege(user._id, user.canPost)}
                /&gt;
              &lt;/td&gt;
              &lt;td style={{ padding: '12px' }}&gt;

```

```

        <span>
          {user.canPost ? 'Can Post' : 'Cannot Post'}
        </span>
      &lt;/td&gt;
    &lt;/tr&gt;
  ))}
  &lt;/tbody&gt;
  &lt;/table&gt;
</div>
</div>
);
};

export default UserManagement;

```

#### 14. src/pages/Login.jsx

```

import React, { useState } from 'react';
import { useNavigate, Link } from 'react-router-dom';
import { useAuth } from '../context/AuthContext';

const Login = () => {
  const [formData, setFormData] = useState({
    email: '',
    password: '',
  });
  const [error, setError] = useState('');
  const [loading, setLoading] = useState(false);
  const navigate = useNavigate();
  const { login } = useAuth();

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

  const handleSubmit = async (e) => {
    e.preventDefault();
    setLoading(true);
    setError('');

    const result = await login(formData.email, formData.password);

    if (result.success) {
      navigate('/dashboard');
    } else {
      setError(result.message);
    }

    setLoading(false);
  };

  return (
    <div>
      <div>
        <h2>
          Login to Student Activities
        </h2>
        {error && <div>{error}</div>}
        &lt;form onSubmit={handleSubmit}&gt;
          <div>
            &lt;label&gt;Email&lt;/label&gt;
            &lt;input
              type="email"
              name="email"
              value={formData.email}

```

```

        onChange={handleChange}
        required
      /&gt;
    </div>

    <div>
      &lt;label&gt;Password&lt;/label&gt;
      &lt;input
        type="password"
        name="password"
        value={formData.password}
        onChange={handleChange}
        required
      /&gt;
    </div>

    &lt;button
      type="submit"
      className="btn btn-primary"
      style={{ width: '100%' }}
      disabled={loading}
    &gt;
      {loading ? 'Logging in...' : 'Login'}
    &lt;/button&gt;
  &lt;/form&gt;

  <p>
    Don't have an account? &lt;Link to="/register"&gt;Register here&lt;/Link&gt;
  </p>
</div>
</div>
);
};

export default Login;

```

## 15. src/pages/Register.jsx

```

import React, { useState, useEffect } from 'react';
import { useNavigate, Link } from 'react-router-dom';
import { useAuth } from '../context/AuthContext';
import api from '../services/api';

const Register = () => {
  const [formData, setFormData] = useState({
    name: '',
    email: '',
    password: '',
    role: 'student',
    department: '',
    club: '',
  });
  const [departments, setDepartments] = useState([]);
  const [clubs, setClubs] = useState([]);
  const [error, setError] = useState('');
  const [loading, setLoading] = useState(false);
  const navigate = useNavigate();
  const { register } = useAuth();

  useEffect(() => {
    fetchDepartments();
    fetchClubs();
  }, []);

  const fetchDepartments = async () => {
    try {
      const response = await api.get('/departments');
      setDepartments(response.data.departments);
    } catch (error) {
      console.error('Error fetching departments:', error);
    }
  };

```

```
};

const fetchClubs = async () => {
  try {
    const response = await api.get('/clubs');
    setClubs(response.data.clubs);
  } catch (error) {
    console.error('Error fetching clubs:', error);
  }
};

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

const handleSubmit = async (e) => {
  e.preventDefault();
  setLoading(true);
  setError('');

  const result = await register(formData);

  if (result.success) {
    navigate('/dashboard');
  } else {
    setError(result.message);
  }

  setLoading(false);
};

return (
  <div>
    <div>
      <h2>
        Register for Student Activities
      </h2>

      {error && <div>{error}</div>}

      <form onSubmit={handleSubmit}>
        <div>
          <label>Name</label>
          <input
            type="text"
            name="name"
            value={formData.name}
            onChange={handleChange}
            required
          />
        </div>

        <div>
          <label>Email</label>
          <input
            type="email"
            name="email"
            value={formData.email}
            onChange={handleChange}
            required
          />
        </div>

        <div>
          <label>Password</label>
          <input
            type="password"
            name="password"
          />
        </div>
      </form>
    </div>
  </div>
);
```

```

        value={formData.password}
        onChange={handleChange}
        required
        minLength={6}
      />
    </div>

    <div>
      &lt;label&gt;Role&lt;/label&gt;
      &lt;select name="role" value={formData.role} onChange={handleChange} required&gt;
        &lt;option value="student"&gt;Student&lt;/option&gt;
        &lt;option value="faculty"&gt;Faculty&lt;/option&gt;
        &lt;option value="club_member"&gt;Club Member&lt;/option&gt;
      &lt;/select&gt;
    </div>

    <div>
      &lt;label&gt;Department&lt;/label&gt;
      &lt;select name="department" value={formData.department} onChange={handleChange}&gt;
        &lt;option value=""&gt;Select Department (Optional)&lt;/option&gt;
        {departments.map((dept) =>
          &lt;option key={dept._id} value={dept._id}&gt;
            {dept.name}
          &lt;/option&gt;
        ))}
      &lt;/select&gt;
    </div>

    <div>
      &lt;label&gt;Club&lt;/label&gt;
      &lt;select name="club" value={formData.club} onChange={handleChange}&gt;
        &lt;option value=""&gt;Select Club (Optional)&lt;/option&gt;
        {clubs.map((club) =>
          &lt;option key={club._id} value={club._id}&gt;
            {club.name}
          &lt;/option&gt;
        ))}
      &lt;/select&gt;
    </div>

    &lt;button
      type="submit"
      className="btn btn-primary"
      style={{ width: '100%' }}
      disabled={loading}
    &gt;
      {loading ? 'Registering...' : 'Register'}
    &lt;/button&gt;
  </form>

  <p>
    Already have an account? &lt;Link to="/"&gt;Login here&lt;/Link&gt;
  </p>
</div>
</div>
);
};

export default Register;

```

## 16. src/pages/Dashboard.jsx

```

import React from 'react';
import { useAuth } from '../context/AuthContext';
import NoticeList from '../components/Notice/NoticeList';

const Dashboard = () => {
  const { user } = useAuth();

  return (

```

```

<div>
  <div>
    <h1>Welcome, {user.name}!</h1>
    <p>Role: <strong>{user.role}</strong></p>
    {user.department &amp;&amp; (
      <p>Department: <strong>{user.department.name}</strong></p>
    )}
    {user.club &amp;&amp; (
      <p>Club: <strong>{user.club.name}</strong></p>
    )}
    <p>
      Posting Privileges:{' '}
      <strong>{user.canPost || user.role === 'admin' ? 'Enabled' : 'Disabled'}</strong>
    </p>
  </div>

  <h2>Recent Notices</h2>
  &lt;NoticeList /&gt;
</div>
);
};

export default Dashboard;

```

## 17. src/pages/AcademicNotices.jsx

```

import React from 'react';
import NoticeList from '../components/Notice/NoticeList';

const AcademicNotices = () =&gt; {
  return (
    <div>
      <h1>Academic Notices</h1>
      &lt;NoticeList type="academic" /&gt;
    </div>
  );
};

export default AcademicNotices;

```

## 18. src/pages/ClubActivities.jsx

```

import React from 'react';
import NoticeList from '../components/Notice/NoticeList';

const ClubActivities = () =&gt; {
  return (
    <div>
      <h1>Club Activities</h1>
      &lt;NoticeList type="club" /&gt;
    </div>
  );
};

export default ClubActivities;

```

## 19. src/pages/CreateNotice.jsx

```

import React from 'react';
import { useNavigate } from 'react-router-dom';
import NoticeForm from '../components/Notice/NoticeForm';

const CreateNotice = () =&gt; {
  const navigate = useNavigate();

  const handleSuccess = () =&gt; {
    setTimeout(() =&gt; {

```

```

        navigate('/dashboard');
    }, 2000);
};

return (
<div>
<h1>Create New Notice</h1>
<NoticeForm onSuccess={handleSuccess} />;
</div>
);
};

export default CreateNotice;

```

## 20. src/pages/AdminPanel.jsx

```

import React from 'react';
import { useAuth } from '../context/AuthContext';
import { Navigate } from 'react-router-dom';
import UserManagement from '../components/Admin/UserManagement';

const AdminPanel = () => {
  const { user } = useAuth();

  if (user.role !== 'admin') {
    return <Navigate to="/dashboard" replace />;
  }

  return (
<div>
<h1>Admin Panel</h1>
<UserManagement />;
</div>
);
};

export default AdminPanel;

```

## Installation Instructions

### 1. Create React App

```
npx create-react-app frontend
cd frontend
```

### 2. Install Dependencies

```
npm install react-router-dom axios react-icons
```

### 3. Replace src folder

Replace the contents of the `src` folder with the files provided above.

### 4. Configure Environment

Create a `.env` file in the frontend root directory with your API URL.

## 5. Run the Application

```
npm start
```

The frontend will run on <http://localhost:3000>

### Features Summary

#### Authentication

- Login and Registration with JWT
- Protected routes
- Role-based access control

#### Notice Management

- View all notices (Academic/Club)
- Create text or PDF notices
- Filter by department or club
- Delete own notices (or all if admin)

#### Admin Features

- Manage user roles
- Grant/revoke posting privileges
- View all users

#### User Roles

- **Student:** View notices only
- **Faculty:** Can post academic notices (if granted)
- **Club Member:** Can post club notices (if granted)
- **Admin:** Full access to all features