code

```
```jsx
import React, { useState, useEffect, useContext, createContext, useRef } from 'react';
// Mock Data
const mockCourses = [
{
 id: 1,
 title: "Introduction to Web Development",
 instructor: "Alice Johnson",
 duration: "8 weeks",
 price: 99.99,
 image: "https://placehold.co/400x200/3b82f6/fffff?text=Web+Dev",
 description: "Learn HTML, CSS, and JavaScript from scratch.",
 media: [
 { type: 'video', src: 'https://example.com/video1.mp4', duration: '15:30', title: 'HTML Basics'
},
 { type: 'audio', src: 'https://example.com/audio1.mp3', duration: '12:15', title: 'CSS
Fundamentals' },
 { type: 'video', src: 'https://example.com/video2.mp4', duration: '20:45', title: 'JavaScript
Intro'}
],
 progress: 60
 },
 {
 id: 2,
```

```
title: "Data Science with Python",
 instructor: "Bob Smith",
 duration: "10 weeks",
 price: 149.99,
 image: "https://placehold.co/400x200/10b981/ffffff?text=Data+Science",
 description: "Master data analysis and machine learning.",
 media: [
 { type: 'video', src: 'https://example.com/video3.mp4', duration: '18:20', title: 'Pandas
Overview' },
 { type: 'audio', src: 'https://example.com/audio2.mp3', duration: '10:05', title: 'NumPy
Basics' }
],
 progress: 30
},
 {
 id: 3,
 title: "UI/UX Design Principles",
 instructor: "Carol Lee",
 duration: "6 weeks",
 price: 89.99,
 image: "https://placehold.co/400x200/8b5cf6/ffffff?text=Design",
 description: "Create beautiful and intuitive user interfaces.",
 media: [
 { type: 'video', src: 'https://example.com/video4.mp4', duration: '22:10', title: 'Design
Thinking' }
],
 progress: 0
```

```
}
];
const mockUser = {
 id: 1,
 name: "John Doe",
 email: "john@example.com",
 enrolledCourses: [1, 2],
 completedCourses: 1,
 totalHours: 45
};
// Contexts
const AuthContext = createContext();
const ThemeContext = createContext();
const CartContext = createContext();
// Auth Provider
const AuthProvider = ({ children }) => {
 const [user, setUser] = useState(null);
 const [loading, setLoading] = useState(true);
 useEffect(() => {
 // Simulate checking for stored token
 const token = localStorage.getItem('authToken');
 if (token) {
```

```
setUser(mockUser);
 }
 setLoading(false);
}, []);
const login = (email, password) => {
 // Simulate API call
 return new Promise((resolve) => {
 setTimeout(() => {
 if (email && password) {
 const token = 'mock-jwt-token-' + Date.now();
 localStorage.setItem('authToken', token);
 setUser(mockUser);
 resolve({ success: true });
 } else {
 resolve({ success: false, error: 'Invalid credentials' });
 }
 }, 500);
});
};
const logout = () => {
 localStorage.removeItem('authToken');
 setUser(null);
};
```

```
return (
 <AuthContext.Provider value={{ user, loading, login, logout }}>
 {children}
 </AuthContext.Provider>
);
};
// Theme Provider
const ThemeProvider = ({ children }) => {
 const [darkMode, setDarkMode] = useState(() => {
 const saved = localStorage.getItem('darkMode');
 return saved ? JSON.parse(saved) : false;
});
 useEffect(() => {
 localStorage.setItem('darkMode', JSON.stringify(darkMode));
 if (darkMode) {
 document.documentElement.classList.add('dark');
 } else {
 document.documentElement.classList.remove('dark');
 }
 }, [darkMode]);
 return (
 <ThemeContext.Provider value={{ darkMode, setDarkMode }}>
 {children}
```

```
</ThemeContext.Provider>
);
};
// Cart Provider
const CartProvider = ({ children }) => {
 const [cart, setCart] = useState(() => {
 const saved = localStorage.getItem('cart');
 return saved ? JSON.parse(saved) : [];
});
 useEffect(() => {
 localStorage.setItem('cart', JSON.stringify(cart));
 }, [cart]);
 const addToCart = (course) => {
 setCart(prev => {
 if (!prev.find(item => item.id === course.id)) {
 return [...prev, course];
 }
 return prev;
 });
};
 const removeFromCart = (courseld) => {
 setCart(prev => prev.filter(item => item.id !== courseld));
```

```
};
 const clearCart = () => {
 setCart([]);
};
 const isInCart = (courseld) => {
 return cart.some(item => item.id === courseld);
};
 const total = cart.reduce((sum, course) => sum + course.price, 0);
 return (
 <CartContext.Provider value={{ cart, addToCart, removeFromCart, clearCart, isInCart, total</pre>
}}>
 {children}
 </CartContext.Provider>
);
};
// Custom Hook for Canvas Visualization
const useCanvasVisualization = (ref, data) => {
 useEffect(() => {
 if (!ref.current || !data) return;
 const canvas = ref.current;
```

```
const ctx = canvas.getContext('2d');
const { width, height } = canvas;
// Clear canvas
ctx.clearRect(0, 0, width, height);
// Draw gradient background
const gradient = ctx.createLinearGradient(0, 0, width, height);
gradient.addColorStop(0, 'rgba(59, 130, 246, 0.3)');
gradient.addColorStop(1, 'rgba(16, 185, 129, 0.3)');
ctx.fillStyle = gradient;
ctx.fillRect(0, 0, width, height);
// Draw data visualization
const max = Math.max(...data);
const barWidth = width / data.length - 10;
data.forEach((value, index) => {
 const x = index * (barWidth + 10) + 5;
 const barHeight = (value / max) * (height - 40);
 const y = height - barHeight - 20;
 // Draw bar
 ctx.fillStyle = `hsl(${index * 45}, 70%, 50%)`;
 ctx.fillRect(x, y, barWidth, barHeight);
```

```
// Add glow effect
 ctx.shadowColor = ctx.fillStyle;
 ctx.shadowBlur = 10;
 ctx.fillRect(x, y, barWidth, barHeight);
 ctx.shadowBlur = 0;
 // Draw label
 ctx.fillStyle = 'rgba(255, 255, 255, 0.8)';
 ctx.font = '12px system-ui';
 ctx.textAlign = 'center';
 ctx.fillText(value, x + barWidth / 2, height - 5);
 });
 // Draw axes
 ctx.strokeStyle = 'rgba(255, 255, 255, 0.3)';
 ctx.lineWidth = 1;
 ctx.beginPath();
 ctx.moveTo(0, height - 20);
 ctx.lineTo(width, height - 20);
 ctx.stroke();
}, [ref, data]);
// Components
const Header = () => {
```

**}**;

```
const { user, logout } = useContext(AuthContext);
 const { darkMode, setDarkMode } = useContext(ThemeContext);
 const { cart } = useContext(CartContext);
 return (
 <header className="bg-white dark:bg-gray-800 shadow-md sticky top-0 z-50">
 <div className="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8">
 <div className="flex justify-between items-center h-16">
 <div className="flex items-center">
 <h1 className="text-2xl font-bold text-blue-600 dark:text-blue-400">EduStream</h1>
 </div>
 <div className="flex items-center space-x-6">
 <but
 onClick={() => setDarkMode(!darkMode)}
 className="p-2 rounded-full hover:bg-gray-200 dark:hover:bg-gray-700 transition-
colors"
 aria-label="Toggle dark mode"
 {darkMode?(
 <svg className="w-5 h-5 text-yellow-300" fill="currentColor" viewBox="0 0 20 20">
 <path fillRule="evenodd" d="M10 2a1 1 0 011 1v1a1 1 0 11-2 0V3a1 1 0 011-1zm4 8a4
4 0 11-8 0 4 4 0 018 0zm-.464 4.95l.707.707a1 1 0 001.414-1.414l-.707-.707a1 1 0 00-1.414
1.414zm2.12-10.607a1 1 0 010 1.414l-.706.707a1 1 0 11-1.414-1.414l.707-.707a1 1 0 011.414
OzM17 11a1 1 O 100-2h-1a1 1 O 100 2h1zm-7 4a1 1 O 011 1v1a1 1 O 11-2 Ov-1a1 1 O 011-1zM5.05
6.464A1 1 0 106.465 5.05l-.708-.707a1 1 0 00-1.414 1.414l.707.707zm1.414 8.486l-.707.707a1 1
0 01-1.414-1.414l.707-.707a1 1 0 011.414 1.414zM4 11a1 1 0 100-2H3a1 1 0 000 2h1z"
clipRule="evenodd" />
 </svg>
```

```
):(
 <svg className="w-5 h-5 text-gray-700" fill="currentColor" viewBox="0 0 20 20">
 <path d="M17.293 13.293A8 8 0 016.707 2.707a8.001 8.001 0 1010.586 10.586z" />
 </svg>
)}
 </button>
 {user?(
 <div className="flex items-center space-x-4">
 <div className="relative">
 <button className="flex items-center space-x-1 text-gray-700 dark:text-gray-200</pre>
hover:text-blue-600 dark:hover:text-blue-400">
 <svg className="w-5 h-5" fill="none" stroke="currentColor" viewBox="0 0 24 24">
 <path strokeLinecap="round" strokeLinejoin="round" strokeWidth={2} d="M3"</pre>
3h18v18H3V3z" />
 <path strokeLinecap="round" strokeLinejoin="round" strokeWidth={2} d="M9"
7h6m-6 4h6m-6 4h6" />
 </svg>
 {cart.length}
 </button>
 \{cart.length > 0 \&\& (
 <div className="absolute -top-2 -right-2 bg-red-500 text-white text-xs rounded-</pre>
full w-5 h-5 flex items-center justify-center">
 {cart.length}
 </div>
)}
 </div>
```

```
<div className="flex items-center space-x-2">
 {user.name}
 <but
 onClick={logout}
 className="text-sm bg-red-500 hover:bg-red-600 text-white px-3 py-1 rounded-
md transition-colors"
 Logout
 </button>
 </div>
 </div>
):(
 <button className="bg-blue-600 hover:bg-blue-700 text-white px-4 py-2 rounded-</pre>
md transition-colors">
 Login
 </button>
)}
 </div>
 </div>
 </div>
 </header>
);
};
const LoginForm = () => {
 const { login } = useContext(AuthContext);
```

```
const [formData, setFormData] = useState({ email: ", password: " });
const [errors, setErrors] = useState({});
const [loading, setLoading] = useState(false);
const validate = () => {
 const newErrors = {};
 if (!formData.email) {
 newErrors.email = 'Email is required';
 } else if (!/\S+@\S+\.\S+/.test(formData.email)) {
 newErrors.email = 'Email is invalid';
 }
 if (!formData.password) {
 newErrors.password = 'Password is required';
 } else if (formData.password.length < 6) {
 newErrors.password = 'Password must be at least 6 characters';
 }
 setErrors(newErrors);
 return Object.keys(newErrors).length === 0;
};
const handleChange = (e) => {
 const { name, value } = e.target;
 setFormData(prev => ({ ...prev, [name]: value }));
```

```
// Real-time validation
 if (errors[name]) {
 validate();
 }
};
 const handleSubmit = async (e) => {
 e.preventDefault();
 if (validate()) {
 setLoading(true);
 const result = await login(formData.email, formData.password);
 if (!result.success) {
 setErrors({ form: result.error });
 }
 setLoading(false);
 }
};
 return (
 <div className="max-w-md mx-auto bg-white dark:bg-gray-800 p-8 rounded-lg shadow-</pre>
lg">
 <h2 className="text-2xl font-bold mb-6 text-center text-gray-800 dark:text-white">Login
to EduStream</h2>
 {errors.form && (
```

```
<div className="mb-4 p-3 bg-red-100 dark:bg-red-900 text-red-700 dark:text-red-200
rounded-md">
 {errors.form}
 </div>
)}
 <form onSubmit={handleSubmit} noValidate>
 <div className="mb-4">
 <label className="block text-gray-700 dark:text-gray-300 mb-2">Email</label>
 <input
 type="email"
 name="email"
 value={formData.email}
 onChange={handleChange}
 className={`w-full px-3 py-2 border rounded-md focus:outline-none focus:ring-2
focus:ring-blue-500 dark:bg-gray-700 dark:border-gray-600 ${
 errors.email?'border-red-500':'border-gray-300'
 }`}
 placeholder="Enter your email"
 />
 {errors.email && {errors.email}}
 </div>
 <div className="mb-6">
 <label className="block text-gray-700 dark:text-gray-300 mb-2">Password</label>
 <input
 type="password"
```

```
name="password"
 value={formData.password}
 onChange={handleChange}
 className={`w-full px-3 py-2 border rounded-md focus:outline-none focus:ring-2
focus:ring-blue-500 dark:bg-gray-700 dark:border-gray-600 ${
 errors.password?'border-red-500':'border-gray-300'
 }`}
 placeholder="Enter your password"
 />
 {errors.password && {errors.password}}
 </div>
 <but
 type="submit"
 disabled={loading}
 className="w-full bg-blue-600 hover:bg-blue-700 disabled:bg-blue-400 text-white py-
2 px-4 rounded-md transition-colors flex items-center justify-center"
 {loading?(
 <>
 <svg className="animate-spin -ml-1 mr-3 h-5 w-5 text-white" fill="none" viewBox="0 0
24 24">
 <circle className="opacity-25" cx="12" cy="12" r="10" stroke="currentColor"</pre>
strokeWidth="4"></circle>
 <path className="opacity-75" fill="currentColor" d="M4 12a8 8 0 018-8V0C5.373 0 0
5.373 0 12h4zm2 5.291A7.962 7.962 0 014 12H0c0 3.042 1.135 5.824 3 7.938l3-2.647z"></path>
 </svg>
 Logging in...
```

```
</>
):(
 'Login'
)}
 </button>
 </form>
 </div>
);
};
const MediaGallery = ({ course }) => {
 const [currentMedia, setCurrentMedia] = useState(course.media[0]);
 const [isPlaying, setIsPlaying] = useState(false);
 const [currentTime, setCurrentTime] = useState(0);
 const [duration, setDuration] = useState(0);
 const videoRef = useRef(null);
 const audioRef = useRef(null);
 const canvasRef = useRef(null);
 const handlePlayPause = () => {
 if (currentMedia.type === 'video' && videoRef.current) {
 if (isPlaying) {
 videoRef.current.pause();
 } else {
 videoRef.current.play();
 }
```

```
setIsPlaying(!isPlaying);
 } else if (currentMedia.type === 'audio' && audioRef.current) {
 if (isPlaying) {
 audioRef.current.pause();
 } else {
 audioRef.current.play();
 }
 setIsPlaying(!isPlaying);
 }
};
const handleTimeUpdate = (time) => {
 setCurrentTime(time);
 // Update canvas visualization with time data
 if (canvasRef.current) {
 const ctx = canvasRef.current.getContext('2d');
 const width = canvasRef.current.width;
 const height = canvasRef.current.height;
 // Draw progress indicator
 ctx.fillStyle = 'rgba(59, 130, 246, 0.5)';
 ctx.fillRect(0, height - 10, (time / duration) * width, 10);
 }
};
```

const handleLoadedMetadata = (mediaDuration) => {

```
setDuration(mediaDuration);
};
 const handleMediaChange = (media) => {
 setCurrentMedia(media);
 setCurrentTime(0);
 setIsPlaying(false);
};
// Simulate analytics data for canvas
 const analyticsData = [25, 45, 30, 60, 40, 75, 55];
 useCanvasVisualization(canvasRef, analyticsData);
 return (
 <div className="bg-white dark:bg-gray-800 rounded-lg shadow-lg overflow-hidden">
 <div className="p-6">
 <h3 className="text-xl font-bold mb-4 text-gray-800 dark:text-white">{course.title}</h3>
 {/* Media List */}
 <div className="mb-6">
 <h4 className="font-semibold mb-3 text-gray-700 dark:text-gray-300">Course
Materials</h4>
 <div className="space-y-2">
 {course.media.map((media, index) => (
 <but
```

```
key={index}
 onClick={() => handleMediaChange(media)}
 className={`w-full text-left p-3 rounded-lg transition-colors flex items-center space-
x-3 ${
 currentMedia === media
 ? 'bg-blue-100 dark:bg-blue-900 text-blue-800 dark:text-blue-200'
 : 'hover:bg-gray-100 dark:hover:bg-gray-700'
 }`}
 {media.type === 'video' ? (
 <svg className="w-5 h-5 text-red-500" fill="currentColor" viewBox="0 0 20 20">
 <path fillRule="evenodd" d="M4 3a2 2 0 00-2 2v10a2 2 0 002 2h12a2 2 0 002-2V5a2</p>
2 0 00-2-2H4zm12 12H4l4-8 3 6 2-4 3 6z" clipRule="evenodd" />
 </svg>
):(
 <svg className="w-5 h-5 text-green-500" fill="currentColor" viewBox="0 0 20 20">
 <path fillRule="evenodd" d="M9.383 3.076A1 1 0 0110 4v12a1 1 0 01-</p>
1.617.793L4.828 13H2a1 1 0 01-1-1V8a1 1 0 011-1h2.828l3.555-3.793A1 1 0 019.383 3.076zM15
8a1 1 0 011-1h1a1 1 0 011 1v4a1 1 0 01-1 1h-1a1 1 0 01-1-1V8z" clipRule="evenodd" />
 </svg>
)}
 {media.title}
 {media.duration}

 </button>
))}
 </div>
 </div>
```

```
{/* Media Player */}
<div className="bg-gray-900 rounded-lg overflow-hidden">
 {currentMedia.type === 'video' ? (
 <video
 ref={videoRef}
 src={currentMedia.src}
 className="w-full"
 onPlay={() => setIsPlaying(true)}
 onPause={() => setIsPlaying(false)}
 onEnded={() => setIsPlaying(false)}
 onTimeUpdate={(e) => handleTimeUpdate(e.target.currentTime)}
 onLoadedMetadata={(e) => handleLoadedMetadata(e.target.duration)}
 />
):(
 <audio
 ref={audioRef}
 src={currentMedia.src}
 onPlay={() => setIsPlaying(true)}
 onPause={() => setIsPlaying(false)}
 onEnded={() => setIsPlaying(false)}
 onTimeUpdate={(e) => handleTimeUpdate(e.target.currentTime)}
 onLoadedMetadata={(e) => handleLoadedMetadata(e.target.duration)}
 />
)}
```

```
{/* Custom Controls */}
 <div className="p-4 bg-gray-800">
 <div className="flex items-center space-x-4">
 <but
 onClick={handlePlayPause}
 className="text-white hover:text-blue-400 transition-colors"
 >
 {isPlaying?(
 <svg className="w-6 h-6" fill="currentColor" viewBox="0 0 20 20">
 <path fillRule="evenodd" d="M18 10a8 8 0 11-16 0 8 8 0 0116 0zM7 8a1 1 0 012</pre>
0v4a1 1 0 11-2 0V8zm5-1a1 1 0 00-1 1v4a1 1 0 102 0V8a1 1 0 00-1-1z" clipRule="evenodd" />
 </svg>
):(
 <svg className="w-6 h-6" fill="currentColor" viewBox="0 0 20 20">
 <path fillRule="evenodd" d="M10 18a8 8 0 100-16 8 8 0 000 16zM9.555 7.168A1 1 0</p>
008 8v4a1 1 0 001.555.832l3-2a1 1 0 000-1.664l-3-2z" clipRule="evenodd" />
 </svg>
)}
 </button>
 <div className="flex-1">
 <div className="w-full bg-gray-600 rounded-full h-1">
 <div
 className="bg-blue-500 h-1 rounded-full transition-all"
 style={{ width: `${duration? (currentTime / duration) * 100 : 0}%` }}
 ></div>
 </div>
```

```
<div className="text-xs text-gray-400 mt-1">
 {Math.floor(currentTime / 60)}:{Math.floor(currentTime % 60).toString().padStart(2,
'O')} /
 {Math.floor(duration / 60)}:{Math.floor(duration % 60).toString().padStart(2, '0')}
 </div>
 </div>
 </div>
 </div>
 </div>
 {/* Canvas Visualization */}
 <div className="mt-6">
 <h4 className="font-semibold mb-3 text-gray-700 dark:text-gray-300">Learning
Analytics</h4>
 <canvas
 ref={canvasRef}
 width={400}
 height={150}
 className="w-full bg-gray-100 dark:bg-gray-700 rounded-lg"
 />
 </div>
 </div>
 </div>
);
};
```

const CourseCard = ({ course }) => {

```
const { addToCart, isInCart } = useContext(CartContext);
const [showMedia, setShowMedia] = useState(false);
return (
 <div className="bg-white dark:bg-gray-800 rounded-lg shadow-md overflow-hidden"</pre>
transition-all hover:shadow-lg">

 <div className="p-6">
 <h3 className="text-xl font-bold mb-2 text-gray-800 dark:text-white">{course.title}</h3>
 by {course.instructor}
 {course.description}
 <div className="flex items-center justify-between mb-4">
 ${course.price}

 {course.duration}
 </div>
 {course.progress > 0 && (
 <div className="mb-4">
 <div className="flex justify-between text-sm text-gray-600 dark:text-gray-400 mb-1">
 Progress
 {course.progress}%
 </div>
 <div className="w-full bg-gray-200 dark:bg-gray-700 rounded-full h-2">
 <div
```

```
className="bg-green-500 h-2 rounded-full transition-all"
 style={{ width: `${course.progress}%` }}
 ></div>
 </div>
 </div>
)}
 <div className="flex space-x-2">
 <but
 onClick={() => setShowMedia(!showMedia)}
 className="flex-1 bg-gray-200 dark:bg-gray-700 hover:bg-gray-300 dark:hover:bg-
gray-600 text-gray-800 dark:text-white py-2 px-4 rounded-md transition-colors text-sm"
 >
 {showMedia? 'Hide Materials': 'View Materials'}
 </button>
 {!isInCart(course.id) && (
 <but
 onClick={() => addToCart(course)}
 className="bg-blue-600 hover:bg-blue-700 text-white py-2 px-4 rounded-md
transition-colors text-sm"
 Add to Cart
 </button>
)}
 </div>
```

```
{showMedia && (
 <div className="mt-4 pt-4 border-t border-gray-200 dark:border-gray-700">
 <h4 className="font-semibold mb-2 text-gray-700 dark:text-gray-300">Media
Files</h4>
 <div className="space-y-1">
 {course.media.map((media, index) => (
 <div key={index} className="text-sm text-gray-600 dark:text-gray-400 flex items-</pre>
center space-x-2">
 {media.type === 'video' ? '&' : ',;'}
 {media.title}
 ({media.duration})
 </div>
))}
 </div>
 </div>
)}
 </div>
 </div>
);
};
const Dashboard = () => {
const { user } = useContext(AuthContext);
 const { cart } = useContext(CartContext);
 const stats = [
```

```
{ label: 'Total Hours', value: user?.totalHours || 0, icon: 'O' },
 { label: 'Courses in Progress', value: user?.enrolledCourses?.length | 0, icon: '@' },
 { label: 'Achievements', value: 5, icon: '\textbf{Y}' }
];
return (
 <div className="bg-white dark:bg-gray-800 rounded-lg shadow-lg p-6">
 <h2 className="text-2xl font-bold mb-6 text-gray-800 dark:text-white">Dashboard</h2>
 {/* Stats Grid */}
 <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-4 gap-6 mb-8">
 {stats.map((stat, index) => (
 <div key={index} className="bg-gradient-to-br from-blue-50 to-indigo-50 dark:from-</pre>
gray-700 dark:to-gray-800 p-6 rounded-lg">
 <div className="flex items-center justify-between">
 <div>
 {stat.label}
{stat.value}
 </div>
 {stat.icon}
 </div>
 </div>
))}
 </div>
 {/* Recent Activity */}
```

```
<div className="mb-8">
 <h3 className="text-xl font-semibold mb-4 text-gray-800 dark:text-white">Recent
Activity</h3>
 <div className="space-y-3">
 {mockCourses.slice(0, 3).map((course, index) => (
 <div key={index} className="flex items-center p-4 bg-gray-50 dark:bg-gray-700</pre>
rounded-lg">
 <img src={course.image} alt={course.title} className="w-16 h-16 object-cover"</pre>
rounded-lg mr-4"/>
 <div className="flex-1">
 <h4 className="font-medium text-gray-800 dark:text-white">{course.title}</h4>
 Progress:
{course.progress}%
 </div>
 <div className="text-right">
 2 hours ago
 </div>
 </div>
))}
 </div>
 </div>
 {/* Cart Summary */}
 \{cart.length > 0 \&\& (
 <div className="bg-blue-50 dark:bg-blue-900/30 p-6 rounded-lg">
 <h3 className="text-xl font-semibold mb-4 text-gray-800 dark:text-white">Shopping
Cart</h3>
 <div className="space-y-3 mb-4">
```

```
{cart.map(course => (
 <div key={course.id} className="flex justify-between items-center">
 {course.title}
 ${course.price}

 </div>
))}
 </div>
 <div className="flex justify-between items-center pt-4 border-t border-blue-200</p>
dark:border-blue-800">
 Total:
 <span className="font-bold text-lg text-blue-600 dark:text-blue-</pre>
400">${cart.reduce((sum, course) => sum + course.price, 0).toFixed(2)}
 </div>
 </div>
)}
 </div>
);
};
const CourseCatalog = () => {
 return (
 <div>
 <div className="flex justify-between items-center mb-8">
 <h2 className="text-3xl font-bold text-gray-800 dark:text-white">Courses</h2>
 <div className="flex items-center space-x-4">
```

```
<select className="bg-white dark:bg-gray-800 border border-gray-300 dark:border-</p>
gray-600 rounded-md px-3 py-2">
 <option>All Categories
 <option>Web Development
 <option>Data Science/option>
 <option>Design</option>
 </select>
 </div>
 </div>
 <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-8">
 {mockCourses.map(course => (
 <CourseCard key={course.id} course={course} />
))}
 </div>
 </div>
);
};
const App = () => {
 const [activeTab, setActiveTab] = useState('dashboard');
 return (
 <AuthProvider>
 <ThemeProvider>
 <CartProvider>
```

```
<div className="min-h-screen bg-gray-100 dark:bg-gray-900 transition-colors</pre>
duration-200">
 <Header />
 <main className="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8 py-8">
 <div className="mb-8">
 <nav className="flex space-x-8 border-b border-gray-200 dark:border-gray-700">
 {['dashboard', 'courses', 'media'].map((tab) => (
 <but
 key={tab}
 onClick={() => setActiveTab(tab)}
 className={`py-4 px-1 border-b-2 font-medium text-sm capitalize transition-
colors ${
 activeTab === tab
 ? 'border-blue-500 text-blue-600 dark:text-blue-400'
 : 'border-transparent text-gray-500 hover:text-gray-700 hover:border-gray-300
dark:text-gray-400 dark:hover:text-gray-300'
 }`}
 >
 {tab}
 </button>
))}
 </nav>
 </div>
 {activeTab === 'dashboard' && <Dashboard />}
 {activeTab === 'courses' && <CourseCatalog />}
```

```
{activeTab === 'media' && <MediaGallery course={mockCourses[0]} />}
 </main>
 <footer className="bg-white dark:bg-gray-800 shadow-md mt-12">
 <div className="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8 py-8">
 <div className="text-center text-gray-600 dark:text-gray-400">
 <h3 className="text-xl font-bold text-blue-600 dark:text-blue-400 mb-
2">EduStream</h3>
 © 2024 EduStream. All rights reserved.
 </div>
 </div>
 </footer>
 </div>
 </CartProvider>
 </ThemeProvider>
 </AuthProvider>
);
};
export default App;
```