🎯 **Dashboard Features Overview**

Role-Based Access Control
- **Employee Role**: Content Strategist, Scriptwriter, Video Editor
- **Executive Role**: CEO, Project Manager, Team Lead
- **Authentication**: Email/password login with role-based routing
- **Session Management**: LocalStorage-based authentication

📱 **Employee Dashboard Features**

1. My Tasks Hub
- **Task Management**: Create, assign, track, and complete tasks
- **Time Tracking**: Start/pause/stop timers with real-time tracking
- **Priority System**: Low, Medium, High, Urgent priority levels
- **Status Tracking**: Pending, In Progress, Completed, Overdue
- **Task Categories**: Project-based task organization
- **Deadline Management**: Due date tracking and alerts

2. Content Studio
- **AI Script Generation**: Chat-based content creation
- **Draft Management**: Version control for scripts
- **Brand Guidelines**: Pre-defined hooks and CTAs
- **Content Templates**: Quick generation buttons (Casual, Formal, Trendy)
- **Approval Workflow**: Submit scripts for review

3. Shoot Planner
- **Calendar Integration**: Full calendar view with react-big-calendar
- **Shoot Scheduling**: Create, edit, and manage shoot events
- **Resource Management**: Studio and equipment allocation
- **Team Assignment**: Assign team members to shoots
- **Client Management**: Track client-specific shoots
- **Location Tracking**: Studio and external location management

4. Editing Workflow
- **Media Queue**: Track editing tasks and progress
- **Status Management**: Editing, Draft Ready, In Review, Approved
- **Comment System**: Timestamped feedback and collaboration
- **File Upload**: Draft submission and review
- **Progress Tracking**: Visual progress indicators

5. Notifications System
- **Categorized Alerts**: Urgent, Approvals, System notifications

- **Real-time Updates**: Live notification feed
- **Action Items**: Direct links to relevant tasks
- **Read/Unread Status**: Notification management

6. Settings & Profile
- **Account Management**: Profile editing and preferences
- **Personalization**: Theme and display settings
- **Notification Preferences**: Customizable alert settings
- **Security Settings**: Login history and device management

👔 **Executive Dashboard Features**

1. Executive Command Center
- **Revenue Tracking**: Real-time financial metrics
- **Lead Management**: Sales pipeline and conversion tracking
- **Team Performance**: Productivity and efficiency metrics
- **KPI Dashboard**: Key performance indicators

2. Leads Management
- **Lead Pipeline**: Track leads from contact to conversion
- **Status Management**: New, Contacted, Qualified, Rejected, Converted
- **Assignment System**: Assign leads to team members
- **Conversion Tracking**: Lead-to-client conversion metrics

3. Team Performance
- **Individual Metrics**: Task completion, efficiency ratings
- **Team Overview**: Department performance comparison
- **Workload Distribution**: Resource allocation tracking
- **Performance Analytics**: Charts and trend analysis

4. Revenue Management
- **Client Revenue**: Revenue breakdown by client
- **Invoice Tracking**: Outstanding and paid invoices
- **Profit Analysis**: Expenses vs. profit tracking
- **Financial KPIs**: Revenue trends and projections

5. Shoot Oversight
- **Shoot Approval**: Approve/reject shoot requests
- **Resource Allocation**: Equipment and studio management
- **Budget Tracking**: Shoot cost monitoring
- **Timeline Management**: Project deadline oversight

6. Editing Oversight
- **Quality Control**: Review and approve edits
- **Workflow Management**: Editing pipeline oversight
- **Team Coordination**: Editor assignment and workload
- **Client Feedback**: Approval workflow management

🔧 **Backend Requirements for Full Functionality**

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1. Authentication & User Management
```typescript
// Required APIs
POST /api/auth/login
POST /api/auth/logout
POST /api/auth/refresh
GET /api/users/profile
PUT /api/users/profile
GET /api/users/team
```

2. Task Management System
```typescript
// Task CRUD Operations
GET /api/tasks
POST /api/tasks
PUT /api/tasks/:id
DELETE /api/tasks/:id
GET /api/tasks/user/:userId
GET /api/tasks/project/:projectId

// Time Tracking
POST /api/tasks/:id/start-timer
POST /api/tasks/:id/pause-timer
POST /api/tasks/:id/stop-timer
GET /api/tasks/:id/time-log

// Task Assignment & Status
PUT /api/tasks/:id/assign
PUT /api/tasks/:id/status
PUT /api/tasks/:id/priority
```

```
```

3. Content Management System
```typescript
// Script Management
GET /api/scripts
POST /api/scripts
PUT /api/scripts/:id
DELETE /api/scripts/:id
POST /api/scripts/:id/versions
GET /api/scripts/:id/versions

// AI Content Generation
POST /api/ai/generate-script
POST /api/ai/improve-script
GET /api/ai/templates
POST /api/ai/analyze-content

// Approval Workflow
POST /api/scripts/:id/submit-approval
PUT /api/scripts/:id/approve
PUT /api/scripts/:id/reject
GET /api/approvals/pending
```

4. Shoot Management System
```typescript
// Shoot Scheduling
GET /api/shoots
POST /api/shoots
PUT /api/shoots/:id
DELETE /api/shoots/:id
GET /api/shoots/calendar/:month/:year

// Resource Management
GET /api/resources/studios
GET /api/resources/equipment
POST /api/resources/allocate
PUT /api/resources/:id/availability

// Team Assignment
POST /api/shoots/:id/assign-team
PUT /api/shoots/:id/team
GET /api/team/availability
```

```
```

5. Media & Editing Workflow
```typescript
// Media Management
POST /api/media/upload
GET /api/media/:id
DELETE /api/media/:id
GET /api/media/project/:projectId

// Editing Workflow
GET /api/editing-queue
POST /api/editing-tasks
PUT /api/editing-tasks/:id/status
POST /api/editing-tasks/:id/upload-draft

// Comments & Feedback
GET /api/editing-tasks/:id/comments
POST /api/editing-tasks/:id/comments
PUT /api/comments/:id
DELETE /api/comments/:id
```

6. Client & Project Management
```typescript
// Client Management
GET /api/clients
POST /api/clients
PUT /api/clients/:id
DELETE /api/clients/:id
GET /api/clients/:id/projects

// Project Management
GET /api/projects
POST /api/projects
PUT /api/projects/:id
DELETE /api/projects/:id
GET /api/projects/:id/tasks
GET /api/projects/:id/timeline
```

7. Lead & Sales Management
```typescript
// Lead Management
```

```
GET /api/leads
POST /api/leads
PUT /api/leads/:id
DELETE /api/leads/:id
PUT /api/leads/:id/status
POST /api/leads/:id/assign

// Sales Pipeline
GET /api/sales/pipeline
GET /api/sales/metrics
GET /api/sales/conversion-rates
POST /api/sales/opportunities
```

8. Financial Management
```typescript
// Revenue Tracking
GET /api/revenue/overview
GET /api/revenue/by-client
GET /api/revenue/trends
GET /api/revenue/projections

// Invoice Management
GET /api/invoices
POST /api/invoices
PUT /api/invoices/:id
POST /api/invoices/:id/send
GET /api/invoices/outstanding

// Budget & Expenses
GET /api/budgets
POST /api/budgets
PUT /api/budgets/:id
GET /api/expenses
POST /api/expenses
```

9. Team Performance & Analytics
```typescript
// Performance Metrics
GET /api/analytics/team-performance
GET /api/analytics/individual-performance/:userId
GET /api/analytics/productivity-metrics
GET /api/analytics/workload-distribution
```

```
// KPI Tracking
GET /api/kpis/dashboard
GET /api/kpis/team/:teamId
POST /api/kpis/targets
PUT /api/kpis/targets/:id
```

10. Notification System
```typescript
// Real-time Notifications
GET /api/notifications
POST /api/notifications
PUT /api/notifications/:id/read
DELETE /api/notifications/:id
GET /api/notifications/unread-count

// WebSocket Events
WebSocket /ws/notifications
WebSocket /ws/task-updates
WebSocket /ws/shoot-updates
WebSocket /ws/approval-requests
```

11. File Storage & Media Processing
```typescript
// File Upload & Management
POST /api/files/upload
GET /api/files/:id
DELETE /api/files/:id
GET /api/files/project/:projectId

// Media Processing
POST /api/media/process
GET /api/media/processing-status/:jobId
POST /api/media/generate-thumbnails
```

12. Integration APIs
```typescript
// External Integrations
POST /api/integrations/calendar/sync
POST /api/integrations/email/send
POST /api/integrations/slack/notify
```

POST /api/integrations/whatsapp/send

// Adobe Premiere Pro Integration
POST /api/integrations/premiere/export
GET /api/integrations/premiere/projects
POST /api/integrations/premiere/import
```

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## �� **Database Schema Requirements**

### **Core Tables Needed:**
1. **Users** - Authentication and profile data
2. **Tasks** - Task management with time tracking
3. **Projects** - Project organization and tracking
4. **Clients** - Client information and relationships
5. **Shoots** - Shoot scheduling and management
6. **Scripts** - Content creation and versioning
7. **Media** - File storage and metadata
8. **Editing_Tasks** - Post-production workflow
9. **Leads** - Sales pipeline management
10. **Invoices** - Financial tracking
11. **Notifications** - Real-time alerts
12. **Comments** - Collaboration and feedback
13. **Time_Logs** - Time tracking data
14. **Approvals** - Workflow approval system

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## 🔄 **Real-time Features Required**

1. **WebSocket Connections** for live updates
2. **Push Notifications** for mobile devices
3. **Live Collaboration** on scripts and tasks
4. **Real-time Time Tracking** synchronization
5. **Instant Notifications** for approvals and alerts
6. **Live Dashboard Updates** for metrics and KPIs


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## 🚀 **Implementation Priority**

### **Phase 1 (Core Functionality)**
1. Authentication & User Management
2. Basic Task Management
3. File Upload & Storage
4. Notification System

### **Phase 2 (Workflow Features)**
1. Content Studio with AI Integration
2. Shoot Planning & Scheduling
3. Editing Workflow Management
4. Client & Project Management

### **Phase 3 (Advanced Features)**
1. Financial Management & Invoicing
2. Lead Management & Sales Pipeline
3. Advanced Analytics & Reporting
4. External Integrations

### **Phase 4 (Optimization)**
1. Real-time Collaboration
2. Mobile App Integration
3. Advanced AI Features
4. Performance Optimization

This comprehensive backend system would transform the current mock-data dashboard into a fully functional, production-ready application that can handle real business operations for The GOAT Media's AI SaaS platform.