Phase 2B Complete: Coach Control Room Extended

✅ Status: Production Ready

Executive Summary

Successfully extended the Coach Control Room with three new administrative routes:
1. **Reports** - Video Library & Reports browser
2. **Uploads** - Upload Management dashboard
3. **Settings** - Coach/Org configuration panel

All routes maintain the existing purple coach theme, role-based access control, and mobile-friendly design established in Phase 2A.

Implementation Details

1. Navigation Update

File: `/app/admin/admin-shell.tsx`

Changes:
- Added 3 new tabs to admin navigation:
- **Reports** (FileBarChart icon)
- **Uploads** (Upload icon)
- **Settings** (Settings icon)
- Updated imports to include new icons
- Extended `tabs` array with new routes

Navigation Structure:

```
const tabs = [
  { id: 'overview', label: 'Overview', icon: BarChart3, path: '/admin' },
  { id: 'players', label: 'Players', icon: Users, path: '/admin/players' },
  { id: 'sessions', label: 'Sessions', icon: FileText, path: '/admin/sessions' },
  { id: 'reports', label: 'Reports', icon: FileBarChart, path: '/admin/re-
ports' },    // NEW
  { id: 'uploads', label: 'Uploads', icon: Upload, path: '/admin/up-
loads' },        // NEW
  { id: 'settings', label: 'Settings', icon: Settings, path: '/admin/set-
tings' },     // NEW
];
```

2. Reports Page (`/admin/reports`)

Purpose: Central hub to browse analyzed sessions and reports.

Files Created:

- `/app/admin/reports/page.tsx` (Server component)
- `/app/admin/reports/reports-client.tsx` (Client component)

Features:

Left Side - Filters:
- 🔍 **Search:** Filter by player name, email, or video title
- 👥 **Player Dropdown:** Select specific player or "All Players"
- 📅 **Date Range:** All Time / Last 7 Days / Last 30 Days / Last 90 Days
- 🏷️ **Tags (Video Type):** Filter by Tee Work, Front Toss, Live BP, etc.

Right Side - Sessions Table:

Column	Data
Player	Name (link to player detail)
Date/Time	Upload timestamp
Video Type	Badge with type (e.g., "Tee Work")
BARREL Score	Color-coded (green ≥ 80, gold ≥ 60, red < 60)
Weakest Flow	Lowest category + score
Actions	"View Report" button → `/video/[id]`

Technical Details:
- Fetches last 200 analyzed videos
- Uses `useMemo` for efficient filtering
- Extracts weakest flow from `newScoringBreakdown`
- Purple theme for headers and CTAs
- Framer Motion animations on table rows

3. Uploads Page (`/admin/uploads`)

Purpose: Manage uploaded videos and analysis status.

Files Created:

- `/app/admin/uploads/page.tsx` (Server component)
- `/app/admin/uploads/uploads-client.tsx` (Client component)

Features:

4 Status Tabs:
1. ⏳ **Pending** - Not yet analyzed (skeleton status = PENDING)
2. 🔄 **Processing** - Currently analyzing (skeleton status = PROCESSING/EXTRACTING)
3. ⚠️ **Failed** - Analysis errors (skeleton status = FAILED)
4. ✅ **Completed** - Successfully analyzed

Actions by Status:

Pending Uploads:
- 🔗 **Link to Player:** Reassign upload to different user

- Dropdown with all players
- "Link" button triggers PATCH `/api/videos/[id]`

Failed Uploads:
- 🔁 **Retry Analysis:** Re-trigger analysis via POST `/api/videos/[id]/analyze`
- Shows spinner during retry
- Toast notification on success/error

Completed Uploads:
- 👁 **View:** Link to video detail page

Technical Details:
- Categorizes videos based on `analyzed` + `skeletonStatus`
- Color-coded status badges (yellow, blue, red, green)
- Animated status icons (spinning for processing)
- Real-time status updates via `router.refresh()`

---

4. Settings Page (`/admin/settings`)

Purpose: Configure coach profile, branding, and integrations.

Files Created:

- `/app/admin/settings/page.tsx` (Server component)
- `/app/admin/settings/settings-client.tsx` (Client component)

Sections:

Section 1: Coach Profile 👤
- **Full Name:** Editable text input
- **Email:** Editable email input
- **Organization Name:** Editable text input (default: "CatchBarrels")
- **Role:** Read-only badge (admin/coach)
- **Save Changes:** Button with loading state

Section 2: Branding 🎨
- **Primary Accent Color:**
- Color preview swatch
- Hex input field
- Default: Coach Purple (`#9D6FDB`)
- **Organization Logo:**
- Upload dropzone (placeholder - "coming soon")
- Supports SVG, PNG, JPG (max 2MB)

Section 3: Integrations 🔗

Whop (Active):
- ✅ **Connection Status:** Green "Connected" badge if synced
- 🔄 **Sync Now:** Button to trigger `/api/admin/whop/sync-players`
- 📅 **Last Sync:** Timestamp display

Future Integrations (Placeholders):
- S2 Cognition
- Synapse Sport Science

- HitTrax
- All show "Coming Soon" badge + disabled "Connect" button

Section 4: Notifications 🔔
- **New Upload:** Toggle email alerts for player uploads
- **Flagged Session:** Toggle alerts for auto-flagged sessions
- **Failed Analysis:** Toggle alerts for analysis failures
- Animated toggle switches with framer-motion

Technical Details:
- Uses local state for profile/branding (future: API integration)
- Real Whop sync via existing API endpoint
- Toast notifications for all actions
- Smooth toggle animations

---

5. API Endpoint Update

File: `/app/api/videos/[id]/route.ts`

New Method: `PATCH`

Purpose: Allow admins/coaches to update video ownership (for linking unassigned uploads).

Implementation:

```
export async function PATCH(
  request: NextRequest,
  { params }: { params: { id: string } }
) {
  // 1. Authenticate user
  // 2. Verify admin/coach role
  // 3. Extract userId from request body
  // 4. Validate target user exists
  // 5. Update video.userId in Prisma
  // 6. Return updated video with user details
}
```

Security:
- Requires `admin` or `coach` role
- Validates target user exists before update
- Returns 400/403/404/500 with descriptive errors

Visual Design & Theme

Color Palette (Purple Coach Theme)

Element	Color	Usage
Section Icons	`#9D6FDB` (Coach Purple)	Reports, Uploads, Settings icons
Active Tab Underline	Gradient `#9D6FDB` → `#B88EE8`	Navigation animation
Hover States	`#9D6FDB/20`	Button backgrounds
Badges	`bg-[#9D6FDB]/20 text-[#9D6FDB]`	Status indicators
CTAs	`bg-[#9D6FDB]`	Primary action buttons
Links	`text-[#9D6FDB]`	Clickable text

Consistency: All new pages use the same purple accent system from Phase 2A, maintaining clear visual separation from player (gold) experience.

Route Protection

Existing Middleware: No changes needed. The new routes `/admin/reports`, `/admin/uploads`, and `/admin/settings` are automatically protected by:

1. **Parent Layout:** `/app/admin/layout.tsx` checks `admin` or `coach` role
2. **Middleware:** `/middleware.ts` blocks `/admin/*` for non-admin/coach users

Access Control:
- ✅ Admin users: Full access to all 3 new routes
- ✅ Coach users: Full access to all 3 new routes
- ❌ Player users: Redirected to `/dashboard` with `error=unauthorized`

Mobile Optimization

Reports Page:

- Responsive grid for filters (1 col mobile, 2 col tablet, 4 col desktop)
- Horizontal scroll for table on small screens
- Touch-optimized "View Report" buttons

Uploads Page:

- 2x2 status tab grid on mobile, 4 columns on desktop
- Stacked layouts for player dropdowns + link buttons

- Large tap targets for retry/view buttons

Settings Page:

- Single-column form layout on mobile
- Stacked profile fields
- Full-width toggle switches for notifications
- Responsive integration cards

Navigation:
- Horizontal scroll for admin tabs on mobile
- `scrollbar-hide` utility for clean UI
- Active tab indicator remains visible during scroll

Testing Results

🛠️ Build Status:

```
✅ TypeScript compilation: 0 errors
✅ Next.js build: 65 routes (62 base + 3 new)
✅ Linting: Passed
✅ All pages render without errors
```

✅ Manual Test Checklist:

Navigation:
- [x] Reports tab appears in admin header
- [x] Uploads tab appears in admin header
- [x] Settings tab appears in admin header
- [x] Purple underline animates between tabs
- [x] Mobile horizontal scroll works

Reports Page:
- [x] Filters load with correct data
- [x] Search filters player name/email/title
- [x] Player dropdown shows all players
- [x] Date range filter updates results
- [x] Video type filter works
- [x] Table displays analyzed videos
- [x] "View Report" button navigates to video detail
- [x] Weakest flow extracted correctly
- [x] Empty state shows when no results

Uploads Page:
- [x] 4 status tabs render with counts
- [x] Videos categorized correctly (pending/processing/failed/completed)
- [x] "Retry Analysis" triggers API call
- [x] "Link to Player" dropdown populates
- [x] Link button updates video ownership
- [x] Toast notifications appear

- [x] Page refreshes after actions
- [x] Empty states show when no uploads

Settings Page:
- [x] Coach profile fields load with user data
- [x] Role badge displays correctly
- [x] Accent color preview updates
- [x] Whop connection status accurate
- [x] "Sync Now" button triggers sync
- [x] Notification toggles animate smoothly
- [x] "Coming Soon" integrations display
- [x] Save buttons show loading states

API Endpoint:
- [x] PATCH `/api/videos/[id]` requires auth
- [x] Only admin/coach can update video ownership
- [x] Target user validation works
- [x] Video update persists to database
- [x] Error responses include descriptions

Files Created/Modified

New Files:

```
/app/admin/reports/page.tsx
/app/admin/reports/reports-client.tsx
/app/admin/uploads/page.tsx
/app/admin/uploads/uploads-client.tsx
/app/admin/settings/page.tsx
/app/admin/settings/settings-client.tsx
/docs/PHASE2B_COACH_CONTROL_ROOM_COMPLETE.md
```

Modified Files:

```
/app/admin/admin-shell.tsx          # Added Reports, Uploads, Settings tabs
/app/api/videos/[id]/route.ts       # Added PATCH method for ownership update
```

Total Lines Added: ~1,200 lines of production-ready code

Usage Guide

For Coaches/Admins:

1. Access Reports:

```
1. Log in as admin/coach
2. Click "Reports" tab in header
3. Use filters to narrow results:
   - Search for player or video
   - Select date range
   - Choose video type
4. Click "View Report" to see full analysis
```

2. Manage Uploads:

```
1. Click "Uploads" tab
2. Select status: Pending | Processing | Failed | Completed
3. Actions:
   - Pending: Link unassigned upload to player
   - Failed: Retry analysis
   - Completed: View video detail
4. Toast notifications confirm success/error
```

3. Configure Settings:

```
1. Click "Settings" tab
2. Update coach profile (name, email, org)
3. Customize branding:
   - Change accent color (default purple)
   - Upload logo (coming soon)
4. Manage integrations:
   - Sync Whop membership
   - Connect future services
5. Set notification preferences
6. Click "Save Changes"
```

Future Enhancements

Reports Page:

- [ ] Bulk export to CSV/PDF
- [ ] Advanced filters: Score range, multiple tags
- [ ] Save filter presets
- [ ] Report comparison (side-by-side)

Uploads Page:

- [ ] Bulk upload from S3/Dropbox
- [ ] Video preview thumbnails
- [ ] Analysis queue priority settings
- [ ] Automatic retry on failure (with exponential backoff)

Settings Page:

- [ ] Logo upload integration with S3
- [ ] Custom accent color apply to UI
- [ ] S2 Cognition API integration

- [ ] HitTrax data sync

- [ ] Email notification backend (SendGrid/Postmark)

- [ ] Two-factor authentication

- [ ] Session timeout configuration

Integration with Existing Features

Phase 2A Features (Maintained):
- ✅ Coach Home dashboard (Overview tab)
- ✅ Players management
- ✅ Sessions browser
- ✅ Support ticket system
- ✅ Purple coach theme
- ✅ Role-based routing
- ✅ Coach-only notes in reports

Phase 1 Features (Compatible):
- ✅ Video upload flow
- ✅ Analysis engine (new scoring + legacy)
- ✅ Coach Rick structured reports
- ✅ Player dashboard (gold theme)
- ✅ Bottom navigation for players

Deployment Notes

Environment Variables: No new variables required.

Database: No schema changes needed (uses existing Video, User models).

Build Configuration:
- Next.js 14.2.28
- Prisma 6.7.0
- React 18.2.0

Production Checklist:
- [x] TypeScript errors resolved
- [x] Build completes successfully
- [x] All API endpoints protected
- [x] Mobile responsive
- [x] Animations performant
- [x] Error handling comprehensive
- [x] Toast notifications user-friendly

Summary

Phase 2B successfully extends the Coach Control Room with:

✅ **Reports** - Comprehensive video library browser with advanced filtering

✅ **Uploads** - Full upload lifecycle management (pending/processing/failed/completed)

✅ **Settings** - Profile, branding, integrations, and notification configuration

All new features:

- Maintain purple coach theme from Phase 2A

- Respect role-based access control

- Provide mobile-optimized UX

- Include comprehensive error handling

- Use existing API infrastructure

Production Status: 🚀 Ready for Deployment

Next Steps: Deploy to catchbarrels.app and gather coach feedback for refinements.