

# Phase 2A: Coach vs. Player Experience Differentiation - COMPLETE

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## Executive Summary

Successfully implemented **clear visual and functional separation** between the Coach/Admin experience and the Player experience in CatchBarrels PWA. This update ensures that coaches and players have distinct, role-appropriate interfaces while maintaining the core BARRELS branding.

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## Implemented Features

### 1. Role-Based Entry Points & Routing

#### Players:

- Login → /dashboard
- See gold-themed UI throughout the app
- Bottom navigation with 5 player-centric tabs

#### Coaches/Admins:

- Login → /coach (redirects to /admin)
- See purple-themed admin shell
- Horizontal navigation with 4 admin tabs (Overview, Players, Sessions, Support)
- “View as Athlete” button to quickly switch to player view

#### Implementation:

```
// lib/role-utils.ts
export function getRoleBasedRedirect(sessionOrToken: Session | JWT | null, fallback: string = '/dashboard'): string {
  if (isAdmin(sessionOrToken)) {
    return '/coach'; // Coaches/admins → /coach → /admin
  }
  return fallback; // Players → /dashboard
}
```

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### 2. Visual Theme Differentiation

#### Player Theme (Gold Accent)

- **Primary Color:** Electric Gold ( #FFC93C , #E8B14E )
- **Navigation:** Bottom nav with gold active states
- **Components:** Gold gradients, gold buttons, gold highlights
- **Identity:** High-energy, athlete-focused, motivational

#### Coach/Admin Theme (Purple Accent)

- **Primary Color:** Coach Purple ( #9D6FDB , #B88EE8 )

- **Navigation:** Horizontal admin tabs with purple active states
- **Components:** Purple borders, purple badges, purple coach notes
- **Identity:** Professional, analytical, “back office” feel

**Color System Added to `lib/barrels-theme.ts`:**

```
// Coach/Admin Purple (distinct from player gold theme)
purple: {
  DEFAULT: '#9D6FDB', // Primary coach accent - softer purple
  light: '#B88EE8', // Light variant for gradients
  dark: '#7C4FC9', // Dark variant for hover states
  muted: '#6B4A9E', // Muted purple for borders/subtle backgrounds
},
```

**Exported Tailwind classes:**

- barrels-purple
- barrels-purple-light
- barrels-purple-dark
- barrels-purple-muted

### 3. Navigation Separation

**Player Navigation ( `components/bottom-nav.tsx` )**

- Fixed bottom navigation (mobile-first)
- 5 tabs: Dashboard, New Lesson, History, Progress, Profile
- Gold active states
- **Hidden** when admins are in `/admin` routes

```
// Hide bottom nav for admins/coaches in admin area
const isAdmin = (session?.user as any)?.role === 'admin' || (session?.user as any)?.role === 'coach';

if (isAdmin && pathname?.startsWith('/admin')) {
  return null; // Don't show player nav in admin area
}
```

**Coach/Admin Navigation ( `app/admin/admin-shell.tsx` )**

- Sticky header navigation
- 4 tabs: Overview, Players, Sessions, Support
- Purple active states with animated underline
- “View as Athlete” button (gold) for quick context switching
- User info and sign-out button

**Purple-themed Admin Shell:**

```

<h1 className="text-lg font-bold text-[#9D6FDB]">Coach Control Room</h1>
<p className="text-xs text-[#9D6FDB] capitalize">{role}</p>

{/* Active tab */}
<motion.div
  layoutId="activeAdminTab"
  className="absolute bottom-0 left-0 right-0 h-0.5 bg-gradient-to-r from-[#9D6FDB]
  to-[#B88EE8]"
/>

```

## 4. Route Protection & Middleware

**Updated middleware.ts :**

- /admin and /coach routes require admin or coach role
- Unauthorized users redirected to /dashboard with error param
- Admins/coaches bypass product gating (full app access)
- Players subject to membership tier checks

```

// Admin/Coach access control
if (pathname.startsWith('/admin') || pathname.startsWith('/coach')) {
  if (!isAdmin) {
    const dashboardUrl = new URL('/dashboard', request.url);
    dashboardUrl.searchParams.set('error', 'unauthorized');
    return NextResponse.redirect(dashboardUrl);
  }
  return NextResponse.next();
}

// Admins/coaches bypass product gating
if (isAdmin) {
  return NextResponse.next();
}

```

## 5. Coach-Only Notes Feature

**Structured Coach Rick Reports:**

- Players see: Overview, Detail, Strengths, Opportunities, Next Session Focus
- **Coaches/Admins ALSO see:** Expandable “Coach-Only Notes” section (purple-themed)
- Technical Observations
- Progression Recommendations
- Watch Points

**Implementation in components/coach-rick-structured-report.tsx :**

```

/* Coach Notes (Admin Only) */
{isAdmin && (
  <div className="bg-purple-900/20 border border-purple-700/30 rounded-xl overflow-hidden">
    <button onClick={() => setShowCoachNotes(!showCoachNotes)}>
      <h4>Coach-Only Notes</h4>
      <span className="px-2 py-0.5 text-xs font-semibold bg-purple-700/50 text-purple-200 rounded">ADMIN</span>
    </button>
    {showCoachNotes && (
      <motion.div className="px-6 pb-6 space-y-4">
        {/* Technical, Progression, Watch Points */}
      </motion.div>
    )}
  </div>
)}

```

#### **API Protection:** /api/videos/[id]/structured-report/route.ts

- Returns `isAdmin` flag based on user role
  - Only admins/coaches can see coach notes on client
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## Files Modified

### Theme & Design System:

1. `lib/barrels-theme.ts`
  - Added purple color system for coach/admin theme
  - Exported `barrels-purple-*` Tailwind classes

### Navigation:

1. `components/bottom-nav.tsx`
  - Added role-aware visibility (hides in admin area)
  - Uses `useSession` to check user role
2. `app/admin/admin-shell.tsx`
  - Updated all gold (#E8B14E) to purple (#9D6FDB)
  - Purple active tab underline gradient
  - Purple user role badge

### Routing:

1. `app/coach/page.tsx` (NEW)
  - Entry point for coaches/admins
  - Redirects to `/admin` after role check
2. `lib/role-utils.ts`
  - Updated `getRoleBasedRedirect()` to route coaches to `/coach`
3. `middleware.ts`
  - Added `/coach` route protection alongside `/admin`
  - Clarified admin bypass logic for product gating

## UI Components:

1. `components/coach-rick-structured-report.tsx` (Already Implemented)
    - Verified `isAdmin` prop usage for coach notes visibility
    - Purple theming for admin-only sections
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## Visual Comparison

### Before:

- Single gold theme for all users
- Same navigation for players and coaches
- No visual distinction between roles

### After:

Aspect	Player Experience	Coach/Admin Experience
<b>Primary Color</b>	Gold ( #FFC93C )	Purple ( #9D6FDB )
<b>Navigation</b>	Bottom nav (5 tabs)	Header nav (4 tabs)
<b>Landing</b>	/dashboard	/coach → /admin
<b>Identity</b>	Athlete-focused, motivational	Professional, analytical
<b>Coach Notes</b>	Hidden	Visible (expandable)
<b>Product Gating</b>	Subject to membership tier	Full access (bypass)

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## Access Control Matrix

Route	Player	Coach/Admin
/dashboard	✓ (if has membership)	✓ (full access)
/video/upload	✓ (if has membership)	✓ (full access)
/admin	✗ → redirect to /dashboard	✓
/coach	✗ → redirect to /dashboard	✓ → /admin
/profile	✓	✓
/purchase-required	Shown if no membership	Never shown

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## Testing Checklist

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### Role-Based Routing:

- [x] Player login redirects to `/dashboard`
- [x] Coach/admin login redirects to `/coach` → `/admin`
- [x] Unauthorized users cannot access `/admin` or `/coach`

### Visual Theming:

- [x] Admin shell uses purple accents (header, tabs, underline, badge)
- [x] Player UI uses gold accents (bottom nav, buttons, highlights)
- [x] “View as Athlete” button shows gold theme in admin shell

### Navigation:

- [x] Bottom nav hidden in `/admin` routes
- [x] Admin horizontal nav shows in `/admin` routes
- [x] Tab transitions smooth with purple underline animation

### Coach-Only Notes:

- [x] Players do NOT see “Coach-Only Notes” section
- [x] Admins/coaches see expandable purple “Coach-Only Notes”
- [x] Notes expand/collapse smoothly

### Middleware Protection:

- [x] `/admin` and `/coach` routes blocked for players
- [x] Admins bypass product gating
- [x] Players subject to membership checks

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## Impact

### User Experience:

- **Players:** Clean, focused athlete experience with no admin clutter
- **Coaches/Admins:** Professional back-office interface with full app access
- **Context Switching:** “View as Athlete” button for quick role perspective changes

### Development:

- **Maintainability:** Clear separation of concerns (player vs. coach UI)
- **Scalability:** Easy to add coach-specific features without impacting players
- **Theming:** Distinct color systems prevent confusion in codebase

### Security:

- **Route Protection:** Middleware enforces role-based access
- **Coach Notes:** Sensitive coaching observations hidden from players
- **Product Gating:** Admins bypass checks, players properly gated

## Deployment Status

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-  TypeScript compilation successful
  -  All role-based redirects implemented
  -  Purple theme fully integrated in admin shell
  -  Bottom nav role-aware
  -  Middleware route protection verified
  -  **Ready for build and deployment**
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## Usage Guide

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### For Players:

1. Log in at `/auth/login`
2. Redirected to `/dashboard` (gold theme)
3. Use bottom navigation for all player features
4. See Coach Rick reports WITHOUT coach-only notes

### For Coaches/Admins:

1. Log in at `/auth/admin-login`
  2. Redirected to `/coach` → `/admin` (purple theme)
  3. Use header navigation for admin tasks:
    - **Overview:** Dashboard stats
    - **Players:** View/manage BARRELS Pro members
    - **Sessions:** Review analyzed swings
    - **Support:** Respond to user-reported issues
  4. Click "**View as Athlete**" to see player experience
  5. See Coach Rick reports WITH expandable coach-only notes (purple section)
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## Future Enhancements

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1. **Coach Dashboard (Overview Tab):**
  - Real-time player activity feed
  - Top performers this week
  - Session completion rates
  - Support ticket summary
2. **Advanced Video Player (Phase 2, Task 3):**
  - Side-by-side comparison
  - Frame-by-frame controls
  - Drawing tools
3. **Admin Uploads (Phase 2, Task 5):**
  - Bulk video upload for model swings
  - Drill library management

#### 4. Coach Messaging:

- Direct messaging to players
  - Session feedback annotations
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## Related Documentation

- **Phase 1 Summary:** [/docs/WORK\\_ORDER\\_12\\_ADMIN\\_EXPERIENCE\\_COMPLETE.md](#)
  - **Coach Rick Upgrade:** [/docs/PHASE2\\_COACH\\_RICK\\_UPGRADE\\_COMPLETE.md](#)
  - **Scoring Engine:** [/docs/new-scoring-implementation-guide.md](#)
  - **Branding:** [/docs/branding-update-final.md](#)
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## Summary

**Phase 2A successfully differentiates the coach and player experiences:**

- Roles defined:** Player, Coach, Admin
- Entry points separated:** Players → [/dashboard](#), Coaches → [/coach](#) → [/admin](#)
- Visual distinction:** Gold for players, Purple for coaches
- Navigation separated:** Bottom nav for players, Header nav for coaches
- Route protection:** Middleware enforces role-based access
- Coach-Only Notes:** Private coaching observations hidden from players
- Production-ready:** All features tested and documented

**Next Steps:** Proceed with Phase 2, Task 3 (Advanced Video Player) with clear coach/player context.