Yestoryd Mobile UI & PWA Implementation Plan

Date: January 18, 2026
Target Completion: 4 weeks
Owner: Amit Kumar Rai

Executive Summary

This plan addresses mobile UI inconsistencies impacting 80%+ of Yestoryd's user base, followed by PWA enhancement for app-like experience. The approach prioritizes the parent-facing conversion funnel first, then coach portal fixes.

Phase 1: Design System Standardization (Week 1)

1.1 Create Shared Component Library

File: components/ui/design-tokens.ts

```typescript

```

```javascript
// Brand Colors
export const colors = {
  primary: '#FF0099',     // Hot Pink - Primary CTAs
  secondary: '#00ABFF',   // Electric Blue - Secondary actions
  accent: '#FFDE00',      // Yellow - Highlights (use #E6C600 on white)
  premium: '#7B008B',     // Deep Purple - Gradients
  whatsapp: '#25D366',    // WhatsApp CTAs only

  // Grayscale (dark theme)
  bg: {
    primary: '#0f1419',   // Main background
    secondary: '#1a1f2e', // Card background
    tertiary: '#2a2f3e',  // Elevated elements
  },
  text: {
    primary: '#ffffff',
    secondary: '#9ca3af', // gray-400
    tertiary: '#6b7280',  // gray-500
  },
  border: '#374151',      // gray-700
};


// Spacing (mobile-first)
export const spacing = {
  xs: '0.25rem',   // 4px
  sm: '0.5rem',    // 8px
  md: '1rem',      // 16px
  lg: '1.5rem',    // 24px
  xl: '2rem',      // 32px
};


// Border Radius
export const radius = {
  sm: '0.5rem',    // 8px - badges, inputs
  md: '0.75rem',   // 12px - buttons
  lg: '1rem',      // 16px - cards
  xl: '1.5rem',    // 24px - modals, large cards
  full: '9999px',  // pills, avatars
};


// Touch Targets (WCAG 2.5.5)
export const touch = {
  min: '44px',     // Minimum touch target
  recommended: '48px',
};
```

1.2 Mobile-First Tailwind Classes

File: `tailwind.config.js` additions

```javascript
theme: {
  extend: {
    screens: {
      'xs': '375px',   // iPhone SE
      'sm': '640px',   // Large phones
      'md': '768px',   // Tablets
      'lg': '1024px',  // Desktop
    },
    fontSize: {
      'mobile-xs': ['0.75rem', { lineHeight: '1rem' }],
      'mobile-sm': ['0.875rem', { lineHeight: '1.25rem' }],
      'mobile-base': ['1rem', { lineHeight: '1.5rem' }],
      'mobile-lg': ['1.125rem', { lineHeight: '1.75rem' }],
      'mobile-xl': ['1.25rem', { lineHeight: '1.75rem' }],
    },
    spacing: {
      'safe-bottom': 'env(safe-area-inset-bottom)',
      'safe-top': 'env(safe-area-inset-top)',
    },
  },
}
```

1.3 Shared UI Components

Component	File	Purpose
Button	components/ui/Button.tsx	Consistent CTAs with touch targets
Card	components/ui/Card.tsx	Unified card styling
Input	components/ui/Input.tsx	Form inputs with focus states
LoadingSpinner	components/ui/LoadingSpinner.tsx	Pink spinner (🔴 #FF0099)
MobileNav	components/ui/MobileNav.tsx	Bottom navigation bar
PageContainer	components/ui/PageContainer.tsx	Safe area + max-width

Button Component Example:

```tsx
tsx
```

```tsx
// components/ui/Button.tsx
interface ButtonProps {
  variant: 'primary' | 'secondary' | 'whatsapp' | 'ghost';
  size: 'sm' | 'md' | 'lg';
  fullWidth?: boolean;
  children: React.ReactNode;
}

const variants = {
  primary: 'bg-[#FF0099] hover:bg-[#FF0099]/90 text-white',
  secondary: 'bg-gray-700 hover:bg-gray-600 text-white',
  whatsapp: 'bg-[#25D366] hover:bg-[#25D366]/90 text-white',
  ghost: 'bg-transparent hover:bg-gray-800 text-gray-300',
};

const sizes = {
  sm: 'h-9 px-3 text-sm',
  md: 'h-11 px-4 text-base min-h-[44px]', // Touch-friendly
  lg: 'h-14 px-6 text-lg min-h-[48px]',   // Large CTA
};

export const Button = ({ variant, size, fullWidth, children }: ButtonProps) => (
  <button
    className={cn(
      'rounded-xl font-medium transition-colors',
      'focus:outline-none focus:ring-2 focus:ring-[#FF0099]/50',
      'active:scale-[0.98]', // Mobile feedback
      variants[variant],
      sizes[size],
      fullWidth && 'w-full'
    )}
  >
    {children}
  </button>
);
```

Phase 2: Parent-Facing Mobile Audit (Week 1-2)

2.1 Critical Pages to Audit

Priority	Page	Mobile Issues to Check
P0	Landing Page (/)	Hero text overflow, CTA visibility, scroll indicators

Priority	Page	Mobile Issues to Check
P0	Assessment (/assessment)	Audio controls, progress indicator, recording button size
P0	Results (/assessment/results/[id])	Score display, CTA buttons, share functionality
P0	Enroll (/enroll)	Form layout, input spacing, calendar picker
P1	Parent Login (/parent/login)	OTP input, keyboard handling
P1	Parent Dashboard (/parent)	Navigation, session cards, rAI chat widget
P2	Payment Success	Receipt display, next steps

2.2 Mobile Audit Checklist

For each page, verify:

Layout:

☐ No horizontal scroll on 375px viewport
☐ Content visible without zooming
☐ Safe area padding (notch devices)
☐ Proper spacing between elements

Touch Targets:

☐ All buttons ≥ 44px height
☐ Adequate spacing between clickable elements (8px minimum)
☐ No accidental taps on adjacent elements

Typography:

☐ Readable text size (minimum 16px for body)
☐ Proper line height (1.5 for paragraphs)
☐ No text truncation cutting off meaning

Forms:

☐ Input fields have 16px+ font (prevents iOS zoom)
☐ Labels visible and associated
☐ Error messages visible on mobile
☐ Keyboard doesn't obscure active input

Performance:

☐ Images lazy-loaded
☐ No layout shifts on load
☐ Touch feedback on interactions

2.3 Known Issues by Page

Landing Page `/`

Issue: Hero section too tall on mobile, CTA below fold

Fix: Reduce hero padding, move CTA into hero section

Issue: Pricing cards horizontal scroll breaks on small screens

Fix: Stack vertically on mobile with swipe indicator

Issue: Testimonials carousel controls too small

Fix: Increase dot size, add swipe gesture support

Assessment `/assessment`

Issue: Recording button may be too small for thumb reach

Fix: Center button, minimum 64px diameter, add visual pulse

Issue: Progress indicator unclear on mobile

Fix: Use step dots with current step highlighted

Issue: Audio playback controls inconsistent across devices

Fix: Use custom audio player with larger controls

Results `/assessment/results/[id]`

Issue: Score breakdown table overflows

Fix: Card-based layout instead of table on mobile

Issue: Multiple CTAs compete for attention

Fix: Primary CTA (Book Call) sticky at bottom, secondary scrollable

Issue: PDF download doesn't work well on mobile

Fix: Native share sheet instead of download

Enroll `/enroll`

Issue: Form too long, abandonment risk
Fix: Progressive disclosure, show one section at a time

Issue: Date/time picker not mobile-friendly
Fix: Use native date input or bottom sheet picker

Issue: WhatsApp opt-in checkbox hard to tap
Fix: Larger checkbox, tap target includes label

2.4 Implementation Tasks

Task	Effort	Owner	Status
Create design tokens file	2h	Dev	▪
Build Button component	2h	Dev	▪
Build Card component	1h	Dev	▪
Build Input component	2h	Dev	▪
Build MobileNav component	3h	Dev	▪
Audit Landing Page	2h	Dev	▪
Fix Landing Page issues	4h	Dev	▪
Audit Assessment flow	2h	Dev	▪
Fix Assessment issues	6h	Dev	▪
Audit Results page	2h	Dev	▪
Fix Results page issues	4h	Dev	▪
Audit Enroll page	2h	Dev	▪
Fix Enroll page issues	4h	Dev	▪
Audit Parent Dashboard	3h	Dev	▪
Fix Parent Dashboard issues	6h	Dev	▪
Total	**~40h**		

Phase 3: Coach Portal Mobile Fixes (Week 2)

Reference: Coach UI Audit Report (January 14, 2026)

3.1 Quick Wins (Already Documented)

Fix	Effort	Files
Sessions page: Change blue buttons to pink	1h	`app/coach/sessions/page.tsx`
Sessions page: Change spinner to pink	15m	`app/coach/sessions/page.tsx`
Standardize background to `bg-gray-900`	1h	All coach pages
Remove CoachLayout from earnings/templates	30m	2 files
Standardize card `rounded-2xl`	2h	All coach pages
Add sticky headers	2h	dashboard, students, earnings

Total Coach Fixes: 6-9 hours

3.2 Mobile-Specific Coach Fixes

Issue	Fix	Effort
Session cards cramped on mobile	Stack vertically, expand tap area	2h
Student list hard to scan	Add avatars, larger touch targets	2h
Discovery call notes truncated	Expandable cards	1h
Earnings chart unreadable	Simplified bar chart on mobile	2h

Phase 4: PWA Enhancement (Week 3-4)

4.1 PWA Requirements

Feature	Priority	Effort
Web App Manifest	P0	1h
Service Worker (caching)	P0	4h
Add to Home Screen prompt	P0	2h
Offline assessment results	P1	4h

Feature	Priority	Effort
Push notifications	P2	6h
App icons (all sizes)	P0	2h
Splash screens	P1	2h

4.2 Web App Manifest

File: `public/manifest.json`

```json



```

```json
{
  "name": "Yestoryd - Reading Intelligence",
  "short_name": "Yestoryd",
  "description": "AI-Powered Reading Assessment & Coaching for Children",
  "start_url": "/",
  "display": "standalone",
  "background_color": "#0f1419",
  "theme_color": "#FF0099",
  "orientation": "portrait",
  "icons": [
    {
      "src": "/icons/icon-72x72.png",
      "sizes": "72x72",
      "type": "image/png"
    },
    {
      "src": "/icons/icon-96x96.png",
      "sizes": "96x96",
      "type": "image/png"
    },
    {
      "src": "/icons/icon-128x128.png",
      "sizes": "128x128",
      "type": "image/png"
    },
    {
      "src": "/icons/icon-144x144.png",
      "sizes": "144x144",
      "type": "image/png"
    },
    {
      "src": "/icons/icon-152x152.png",
      "sizes": "152x152",
      "type": "image/png"
    },
    {
      "src": "/icons/icon-192x192.png",
      "sizes": "192x192",
      "type": "image/png",
      "purpose": "any maskable"
    },
    {
      "src": "/icons/icon-384x384.png",
      "sizes": "384x384",
      "type": "image/png"
    },
```

```json
    {
      "src": "/icons/icon-512x512.png",
      "sizes": "512x512",
      "type": "image/png"
    }
  ],
  "categories": ["education", "kids"],
  "screenshots": [
    {
      "src": "/screenshots/assessment.png",
      "sizes": "750x1334",
      "type": "image/png",
      "form_factor": "narrow"
    }
  ]
}
```

4.3 Service Worker Strategy

File: `public/sw.js`

```javascript

```

```javascript
const CACHE_NAME = 'yestoryd-v1';
const STATIC_ASSETS = [
  '/',
  '/offline.html',
  '/icons/icon-192x192.png',
  '/fonts/inter.woff2',
];

// Install: Cache static assets
self.addEventListener('install', (event) => {
  event.waitUntil(
    caches.open(CACHE_NAME).then((cache) => cache.addAll(STATIC_ASSETS))
  );
});

// Fetch: Network-first for API, Cache-first for static
self.addEventListener('fetch', (event) => {
  const { request } = event;

  // Skip non-GET requests
  if (request.method !== 'GET') return;

  // API calls: Network only (don't cache)
  if (request.url.includes('/api/')) {
    event.respondWith(fetch(request));
    return;
  }

  // Static assets: Cache-first
  event.respondWith(
    caches.match(request).then((cached) => {
      return cached || fetch(request).then((response) => {
        // Cache successful responses
        if (response.ok) {
          const clone = response.clone();
          caches.open(CACHE_NAME).then((cache) => cache.put(request, clone));
        }
        return response;
      });
    }).catch(() => {
      // Offline fallback for navigation
      if (request.mode === 'navigate') {
        return caches.match('/offline.html');
      }
    })
```

```
  );
});
```

4.4 Add to Home Screen Prompt

File: components/InstallPrompt.tsx

```tsx

```

```
'use client';

import { useState, useEffect } from 'react';
import { X, Download } from 'lucide-react';

export function InstallPrompt() {
  const [deferredPrompt, setDeferredPrompt] = useState<any>(null);
  const [showPrompt, setShowPrompt] = useState(false);

  useEffect(() => {
    const handler = (e: Event) => {
      e.preventDefault();
      setDeferredPrompt(e);

      // Show after 2 assessment completions or 3 visits
      const visits = parseInt(localStorage.getItem('visits') || '0') + 1;
      localStorage.setItem('visits', visits.toString());

      if (visits >= 3 && !localStorage.getItem('pwa-dismissed')) {
        setShowPrompt(true);
      }
    };

    window.addEventListener('beforeinstallprompt', handler);
    return () => window.removeEventListener('beforeinstallprompt', handler);
  }, []);

  const handleInstall = async () => {
    if (!deferredPrompt) return;
    deferredPrompt.prompt();
    const { outcome } = await deferredPrompt.userChoice;
    if (outcome === 'accepted') {
      // Track install in analytics
    }
    setDeferredPrompt(null);
    setShowPrompt(false);
  };

  const handleDismiss = () => {
    localStorage.setItem('pwa-dismissed', 'true');
    setShowPrompt(false);
  };

  if (!showPrompt) return null;

  return (
```

```
    <div className="fixed bottom-4 left-4 right-4 z-50 bg-gray-800 rounded-2xl p-4 shadow-xl border border-gray-700">
      <button
        onClick={handleDismiss}
        className="absolute top-2 right-2 p-2 text-gray-400 hover:text-white"
      >
        <X size={20} />
      </button>

      <div className="flex items-center gap-4">
        <div className="w-12 h-12 bg-[#FF0099] rounded-xl flex items-center justify-center">
          <Download className="text-white" size={24} />
        </div>
        <div className="flex-1">
          <h3 className="font-semibold text-white">Install Yestoryd</h3>
          <p className="text-sm text-gray-400">Quick access from your home screen</p>
        </div>
      </div>

      <button
        onClick={handleInstall}
        className="w-full mt-4 bg-[#FF0099] text-white py-3 rounded-xl font-medium"
      >
        Add to Home Screen
      </button>
    </div>
  );
}
```

4.5 Offline Assessment Results

Cache assessment results in IndexedDB for offline viewing:

```typescript
```

```ts
// lib/offline-storage.ts
import { openDB } from 'idb';

const DB_NAME = 'yestoryd-offline';
const STORE_NAME = 'assessments';

export async function saveAssessmentOffline(id: string, data: any) {
  const db = await openDB(DB_NAME, 1, {
    upgrade(db) {
      db.createObjectStore(STORE_NAME, { keyPath: 'id' });
    },
  });

  await db.put(STORE_NAME, { id, data, savedAt: Date.now() });
}

export async function getOfflineAssessment(id: string) {
  const db = await openDB(DB_NAME, 1);
  return db.get(STORE_NAME, id);
}
```

4.6 iOS-Specific Meta Tags

File: `app/layout.tsx` additions

```tsx
<head>
  <meta name="apple-mobile-web-app-capable" content="yes" />
  <meta name="apple-mobile-web-app-status-bar-style" content="black-translucent" />
  <meta name="apple-mobile-web-app-title" content="Yestoryd" />
  <link rel="apple-touch-icon" href="/icons/icon-180x180.png" />
  <link rel="apple-touch-startup-image" href="/splash/launch.png" />

  {/* Viewport for PWA */}
  <meta
    name="viewport"
    content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no, viewport-fit=cover"
  />
</head>
```

Phase 5: Testing & QA (Week 4)

5.1 Device Testing Matrix

Device	OS	Screen	Priority
Samsung Galaxy A12	Android 11	720x1600	P0 (budget phone)
Redmi Note 10	Android 12	1080x2400	P0 (popular in India)
iPhone SE	iOS 15	750x1334	P0 (small iPhone)
iPhone 13	iOS 16	1170x2532	P1
OnePlus Nord	Android 13	1080x2400	P1
iPad Mini	iPadOS	1536x2048	P2

5.2 PWA Testing Checklist

☐ Lighthouse PWA score ≥ 90
☐ Install prompt appears correctly
☐ App launches from home screen
☐ Offline page displays
☐ Assessment results viewable offline
☐ Service worker updates correctly
☐ iOS "Add to Home Screen" works
☐ Android "Install App" works

5.3 Performance Targets

Metric	Target	Tool
First Contentful Paint	< 1.8s	Lighthouse
Largest Contentful Paint	< 2.5s	Lighthouse
Time to Interactive	< 3.5s	Lighthouse
Cumulative Layout Shift	< 0.1	Lighthouse
Mobile Usability	100%	Google Search Console

Timeline Summary

Week	Focus	Deliverables
Week 1	Design System + Landing/Assessment	Shared components, 2 pages mobile-ready
Week 2	Results/Enroll/Parent + Coach Portal	3 pages mobile-ready, coach fixes
Week 3	PWA Setup	Manifest, SW, install prompt, icons
Week 4	Testing + Polish	Device testing, performance optimization

Success Metrics

Metric	Current	Target	Measurement
Mobile bounce rate	Unknown	< 40%	Google Analytics
Assessment completion (mobile)	Unknown	> 70%	Database
Mobile conversion rate	Unknown	+20%	Funnel tracking
PWA installs	0	100+ in first month	Analytics
Lighthouse Mobile Score	Unknown	> 85	Lighthouse CI

Dependencies & Blockers

Item	Status	Notes
App icons (all sizes)	🟪 Needed	Rucha to provide base icon
Splash screens	🟪 Needed	Match brand colors
Offline page design	🟪 Needed	Simple branded page
Push notification server	🟪 Future	Requires web-push setup

Risk Mitigation

Risk	Impact	Mitigation
iOS PWA limitations	Medium	Clear documentation on iOS behavior
Service worker bugs	High	Thorough testing, versioned caches
Low-end device performance	High	Test on ₹8,000 phones early
Touch target regressions	Medium	Automated accessibility testing

Plan created: January 18, 2026
To be reviewed: After Week 2 completion