* AI Onboarding Wizard - Component Library Documentation

Version: 1.0.0

Last Updated: December 28, 2024

Status: V PRODUCTION READY

Components: 10/10 Complete

Component Overview

Main Container

• OnboardingWizard.jsx - Master component orchestrating the entire flow

Step Components (1-9)

- 1. WelcomeStep.jsx Introduction and trust indicators
- 2. **ExperienceStep.jsx** 4-tier experience assessment
- 3. RiskToleranceStep.jsx Interactive risk profiling
- 4. InvestmentGoalsStep.jsx Multi-goal selection
- 5. **TradingStyleStep.jsx** Style and timeframe configuration
- 6. PlatformPreferencesStep.jsx Platform integration selection
- 7. **StrategySelectionStep.jsx** Al-powered strategy recommendations
- 8. **CustomizationStep.jsx** AI personality and communication preferences

9. **ReviewCompletionStep.jsx** - Profile summary and setup finalization



Color Palette

```
CSS
/* Primary Gradients */
--gradient-blue: from-blue-500 to-cyan-500
--gradient-purple: from-purple-500 to-violet-500
--gradient-green: from-green-500 to-emerald-500
--gradient-orange: from-orange-500 to-red-500
--gradient-indigo: from-indigo-500 to-purple-500
/* Background Gradients */
--bg-blue: from-blue-50 to-indigo-50
--bg-green: from-green-50 to-emerald-50
--bg-purple: from-purple-50 to-violet-50
/* Status Colors */
--success:
--warning: #f59e0b
--error: #ef4444
--info:
```

Typography Scale

```
/* Headers */
h1: text-3xl font-bold (30px)
h2: text-2xl font-bold (24px)
h3: text-lg font-semibold (18px)
h4: text-sm font-semibold (14px)

/* Body Text */
body: text-base (16px)
small: text-sm (14px)
tiny: text-xs (12px)
```

Spacing System

```
CSS
/* Consistent spacing using Tailwind scale */
xs: 0.5rem (8px)
sm: 0.75rem (12px)
base: 1rem (16px)
lg: 1.5rem (24px)
xl: 2rem (32px)
2xl: 3rem (48px)
```



Component API Reference

OnboardingWizard.jsx

Main container component managing the entire onboarding flow

```
JSX
<OnboardingWizard
  userId={string}
                         // User identifier
  sessionId={string}
                         // Session tracking ID
 isDemo={boolean}
                         // Demo mode flag
 onComplete={function} // Completion callback
 onStepChange={function} // Step navigation callback
  initialStep={number}
                         // Starting step (default: 0)
/>
```

State Management:

```
JavaScript
{
  currentStep: number,
  responses: object,
  isLoading: boolean,
  sessionId: string,
```

```
completedSteps: number[]
}
```

Step Component Pattern

All step components follow this consistent API:

```
<StepComponent
onResponse={function} // Response submission callback
isLoading={boolean} // Loading state
responses={object} // Previous responses for context
onBack={function} // Back navigation callback
stepIndex={number} // Current step index
/>
```

Response Format:

```
JavaScript

// Each step returns structured data
{
   stepId: string,
   data: object,
   timestamp: string,
   isValid: boolean
}
```

Responsive Design Specifications

Breakpoint Strategy

```
/* Mobile First Approach */
default: 320px+ (mobile)
```

```
sm: 640px+ (mobile landscape)
md: 768px+ (tablet)
lg: 1024px+ (desktop)
xl: 1280px+ (large desktop)
```

Grid Layouts

```
// Responsive grid pattern used throughout
<div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6">
    {/* Cards adapt to screen size */}
</div>
```

Touch Targets

- Minimum 44px touch targets for mobile
- Increased padding on interactive elements
- Swipe gesture support for step navigation

% Animation System

Framer Motion Patterns

```
// Standard entry animation
const fadeInUp = {
  initial: { y: 20, opacity: 0 },
  animate: { y: 0, opacity: 1 },
  transition: { delay: index * 0.1 }
}

// Hover interactions
const hoverScale = {
  whileHover: { scale: 1.02 },
  whileTap: { scale: 0.98 }
}
```

```
// Progress animations
const progressBar = {
  initial: { width: 0 },
  animate: { width: `${progress}%` },
  transition: { duration: 0.5 }
}
```

Performance Optimizations

- Lazy loading for step components
- Optimized animation triggers
- Reduced motion support for accessibility

API Integration

Backend Endpoints

```
JavaScript

// Session Management
POST /api/onboarding/initialize
GET /api/onboarding/session/{id}
POST /api/onboarding/session/{id}/response

// AI Analysis
POST /api/onboarding/analyze
GET /api/onboarding/recommendations

// Completion
POST /api/onboarding/complete
GET /api/onboarding/summary/{id}
```

Request/Response Schemas

```
JavaScript
```

```
// Step Response Format
  sessionId: "uuid",
  stepId: "experience_assessment",
    experience: "intermediate",
   confidence: 0.85
  timestamp: "2024-12-28T10:30:00Z"
}
// AI Analysis Response
  recommendations: [
      type: "strategy",
      confidence: 0.92,
      reasoning: "Based on your profile...",
      data: { strategyId: "trend_following" }
    }
  ],
  insights: {
    riskAlignment: "good",
    experienceMatch: "excellent"
  }
}
```

® State Management

Redux Store Structure

```
JavaScript

{
  onboarding: {
    session: {
     id: string,
      userId: string,
      isDemo: boolean,
      startedAt: timestamp,
      completedAt: timestamp
  },
```

```
progress: {
      currentStep: number,
      completedSteps: number[],
      totalSteps: 9
    },
    responses: {
      experience: string,
      risk_tolerance: string,
      investment_goals: string[],
      trading_style: string,
      platform_preferences: string[],
      selected_strategies: string[],
      ai_personality: string,
      communication_style: string,
      notification_settings: object,
      alert_frequency: number,
      preferred_channels: string[]
    },
    ui: {
      isLoading: boolean,
      currentError: string,
      validationErrors: object
    }
  }
}
```

Action Creators

```
JavaScript

// Navigation Actions
navigateToStep(stepIndex)
goToNextStep()
goToPreviousStep()

// Response Actions
submitStepResponse(stepId, data)
updateResponse(stepId, data)
validateStep(stepId)

// Session Actions
initializeSession(userId, isDemo)
completeOnboarding()
resumeSession(sessionId)
```

Gamma Subscription Integration

Tier Access Control

```
JavaScript
const TIER_ACCESS = {
  basic: {
    platforms: ['tradingview'],
    strategies: ['trend_following_ma', 'dividend_growth'],
    features: ['basic_alerts', 'simple_analysis']
  },
  professional: {
    platforms: ['tradingview', 'metatrader', 'thinkorswim'],
    strategies: ['all_basic', 'momentum_breakout', 'options_income'],
    features: ['advanced_alerts', 'detailed_analysis', 'backtesting']
  },
  enterprise: {
    platforms: ['all'],
    strategies: ['all'],
    features: ['all', 'custom_strategies', 'api_access']
  }
}
```

Upgrade Flow Integration

```
JSX

// Upgrade modal component

<UpgradeModal
   requiredTier="professional"
   feature="Advanced Strategies"
   currentTier="basic"
   onUpgrade={handleUpgrade}
   onCancel={handleCancel}
/>
```



Demo Configuration

```
JavaScript
const DEMO_RESPONSES = {
  experience: 'advanced',
  risk_tolerance: 'aggressive',
  investment_goals: ['growth', 'speculation'],
  trading_style: 'day_trading',
  platform_preferences: ['tradingview', 'metatrader'],
  selected_strategies: ['momentum_breakout', 'mean_reversion_rsi'],
  ai_personality: 'growth_optimizer',
  communication_style: 'detailed',
  notification_settings: {
    tradingAlerts: true,
   marketNews: true,
    performanceReports: true,
    educationalContent: false,
    systemUpdates: false
  },
  alert_frequency: 4,
  preferred_channels: ['app', 'email']
}
```

Demo Mode Features

- Pre-filled responses for optimal showcase
- Accelerated step transitions
- Disabled form submissions
- Optional demo banner overlay
- Investor presentation optimizations

Analytics Integration

Event Tracking

JavaScript

```
// Step completion tracking
trackEvent('onboarding_step_completed', {
  stepId: 'experience_assessment',
  stepIndex: 1,
  timeSpent: 45000, // milliseconds
  userId: 'user123',
  sessionId: 'session456'
})
// Abandonment tracking
trackEvent('onboarding_abandoned', {
  stepId: 'risk_tolerance',
  stepIndex: 2,
  timeSpent: 120000,
 reason: 'navigation_away'
})
// Completion tracking
trackEvent('onboarding_completed', {
  totalTime: 480000,
  stepsCompleted: 9,
  upgradeTriggered: true,
  trialActivated: true
})
```

Performance Metrics

- Step completion rates
- Time spent per step
- Abandonment points analysis
- Conversion to subscription
- Demo mode usage statistics



Pre-Deployment

All 10 components tested individually
Mobile responsiveness verified
API integration tested
Demo mode functionality verified
Performance benchmarks met
Accessibility compliance checked

Production Configuration

```
JavaScript

// Environment variables
REACT_APP_API_BASE_URL=https://api.platform.com
REACT_APP_DEMO_MODE_ENABLED=true
REACT_APP_ANALYTICS_ENABLED=true
REACT_APP_SUBSCRIPTION_GATING=true
```

Bundle Optimization

- Lazy loading implemented
- Code splitting by step
- Image optimization
- Bundle size < 500KB target

© Success Metrics

Technical KPIs

• Load time: <2 seconds

• Step transition: <300ms

- Mobile responsiveness: 100%
- Accessibility score: >90
- Bundle size: <500KB

Business KPIs

- Completion rate: >85%
- Subscription conversion: >15%
- Time to complete: <10 minutes
- User satisfaction: >4.5/5
- Demo engagement: >90%



Maintenance & Updates

Component Versioning

- Semantic versioning (1.0.0)
- Backward compatibility maintained
- Migration guides for updates
- Component deprecation notices

Future Enhancements

- A/B testing framework integration
- Advanced personalization algorithms
- Multi-language support
- Voice interaction capabilities

• Accessibility improvements

Support & Documentation

Developer Resources

- Component playground for testing
- Storybook integration for UI documentation
- TypeScript definitions
- Unit test coverage >90%

Integration Support

- Slack channel: #ai-onboarding-integration
- Documentation wiki
- Video tutorials
- Code review guidelines

* This component library represents the most advanced onboarding system in fintech, delivering enterprise-grade UX with AI-powered personalization that creates immediate competitive advantage!