# AI Onboarding Wizard - API Documentation

Version: 1.0.0

**Base URL:** https://api.platform.com/v1

Authentication: Bearer Token

**Content-Type:** application/json

### API Overview

The AI Onboarding API provides intelligent, real-time analysis and personalization for user onboarding flows. It supports session management, step-by-step response processing, AI-powered recommendations, and completion tracking.

### **Core Capabilities**

- Session Management Create, resume, and track onboarding sessions
- Al Analysis Real-time response analysis and personalized recommendations
- Progress Tracking Step completion and user journey analytics
- Subscription Integration Tier-based feature gating and upgrade flows
- **Demo Mode** Investor presentation and demo capabilities



### **Bearer Token Authentication**

```
Plain Text

Authorization: Bearer {access_token}
```

### **API Key Authentication (Demo Mode)**

```
Plain Text

X-API-Key: {api_key}

X-Demo-Mode: true
```

### **Session Management**

### **Initialize Onboarding Session**

**POST** /onboarding/initialize

Creates a new onboarding session for a user.

### **Request Body:**

```
{
    "userId": "user_12345",
    "isDemo": false,
    "subscriptionTier": "basic",
    "metadata": {
        "source": "dashboard",
        "referrer": "organic",
        "userAgent": "Mozilla/5.0..."
    }
}
```

```
{
    "success": true,
    "data": {
        "sessionId": "session_67890",
        "userId": "user_12345",
        "currentStep": 0,
        "totalSteps": 9,
        "isDemo": false,
        "subscriptionTier": "basic",
        "createdAt": "2024-12-28T10:30:00Z",
        "expiresAt": "2024-12-28T22:30:00Z"
    }
}
```

#### **Error Responses:**

```
{
    "success": false,
    "error": {
        "code": "INVALID_USER",
        "message": "User not found or inactive",
        "details": {}
    }
}
```

### **Get Session Details**

**GET** /onboarding/session/{sessionId}

Retrieves current session state and progress.

```
JSON

{
    "success": true,
    "data": {
```

```
"sessionId": "session_67890",
    "userId": "user_12345",
    "currentStep": 3,
    "totalSteps": 9,
    "completedSteps": [0, 1, 2],
    "responses": {
      "experience": "intermediate",
      "risk_tolerance": "moderate",
      "investment_goals": ["growth", "learning"]
    },
    "aiInsights": {
      "profileStrength": 0.85,
      "recommendationConfidence": 0.92,
      "riskAlignment": "excellent"
    },
    "progress": {
      "completionPercentage": 33,
      "estimatedTimeRemaining": 420,
      "averageStepTime": 45
    }
  }
}
```

### Step Response Processing

### **Submit Step Response**

**POST** /onboarding/session/{sessionId}/response

Processes user response for a specific step with AI analysis.

```
"loss_tolerance": 15
},
"metadata": {
    "timeSpent": 45000,
    "interactionCount": 3,
    "hesitationPoints": ["volatility_comfort"]
}
```

```
JSON
  "success": true,
  "data": {
    "stepId": "risk_tolerance",
    "processed": true,
    "aiAnalysis": {
      "confidence": 0.88,
      "insights": [
        "Risk tolerance aligns well with intermediate experience level",
        "Position sizing preference indicates good risk awareness"
      ],
      "recommendations": [
          "type": "strategy_filter",
          "message": "Based on your risk profile, I'll focus on strategies
with 8-12% maximum drawdown",
          "data": {
            "maxDrawdown": 12,
            "riskCategories": ["low", "medium"]
          }
        }
      ],
      "warnings": [],
      "nextStepOptimizations": {
        "investment_goals": {
          "emphasize": ["growth", "income"],
          "deemphasize": ["speculation"]
        }
      }
    },
    "progress": {
      "currentStep": 3,
      "completionPercentage": 33,
      "nextStep": "investment_goals"
```

```
}
}
}
```

### **Advance to Next Step**

**POST** /onboarding/session/{sessionId}/next

Advances session to the next step with Al-optimized content.

#### **Request Body:**

```
{
    "currentStepId": "risk_tolerance",
    "direction": "forward"
}
```

```
JSON
  "success": true,
  "data": {
    "nextStep": {
      "stepId": "investment_goals",
      "stepIndex": 3,
      "title": "Investment Goals",
      "description": "Select your primary investment objectives",
      "aiOptimizations": {
        "recommendedGoals": ["growth", "income"],
        "personalizedMessage": "Based on your moderate risk tolerance, these
goals align well with your profile",
        "goalDescriptions": {
         "growth": "Capital appreciation through strategic investments -
matches your risk profile perfectly",
          "income": "Regular income generation - complements your moderate
approach"
        }
      }
```

```
},
   "progress": {
        "currentStep": 3,
        "completionPercentage": 33,
        "stepsRemaining": 6
    }
}
```

### **@** Al Recommendations

### **Get Personalized Recommendations**

**GET** /onboarding/session/{sessionId}/recommendations

Retrieves AI-powered recommendations based on current user profile.

#### **Query Parameters:**

- category Filter by recommendation type (strategies, platforms, goals)
- limit Maximum number of recommendations (default: 10)

```
"maxDrawdown": "8-12%",
          "complexity": "intermediate",
          "timeCommitment": "30-60 min/day"
        },
        "aiInsights": {
          "profileAlignment": "excellent",
          "riskMatch": "perfect",
          "experienceMatch": "good",
          "goalAlignment": "high"
        }
      }
    ],
    "meta": {
      "totalRecommendations": 6,
      "averageConfidence": 0.87,
      "profileCompleteness": 0.75
    }
  }
}
```

### **Analyze Response Compatibility**

**POST** /onboarding/analyze/compatibility

Analyzes compatibility between user responses and potential selections.

```
"userProfile": {
    "experience": "beginner",
    "risk_tolerance": "conservative",
    "investment_goals": ["learning", "income"]
},
    "targetSelection": {
        "type": "strategy",
        "id": "momentum_breakout",
        "metadata": {
            "difficulty": "advanced",
            "riskLevel": "high",
            "timeCommitment": "high"
}
```

```
}
}
```

```
JSON
  "success": true,
  "data": {
    "compatibility": {
      "overall": "poor",
      "score": 0.25,
      "factors": {
        "experience": {
          "match": "poor",
          "score": 0.1,
          "reason": "Advanced strategy not suitable for beginner level"
        },
        "risk": {
          "match": "poor",
          "score": 0.2,
          "reason": "High-risk strategy conflicts with conservative
tolerance"
        },
        "goals": {
          "match": "fair",
          "score": 0.4,
          "reason": "Strategy can provide learning opportunities"
        }
      }
    },
    "recommendations": {
      "action": "suggest_alternative",
      "message": "This strategy may be too advanced for your current
experience level. Consider starting with trend-following strategies.",
      "alternatives": [
        {
          "id": "trend_following_ma",
          "title": "Moving Average Trend Following",
          "compatibility": 0.88
        }
   }
 }
}
```

### Strategy Management

### **Get Available Strategies**

**GET** /onboarding/strategies

Retrieves available trading strategies with filtering options.

#### **Query Parameters:**

- tier Filter by subscription tier (basic, professional, enterprise)
- difficulty Filter by difficulty level (beginner, intermediate, advanced, expert)
- risk\_level Filter by risk level (low, medium, high)
- category Filter by strategy category

```
JSON
  "success": true,
  "data": {
    "strategies": [
        "id": "trend_following_ma",
        "name": "Moving Average Trend Following",
        "category": "trend_following",
        "description": "Follow market trends using moving average
crossovers",
        "difficulty": "beginner",
        "riskLevel": "medium",
        "requiredTier": "basic",
        "performance": {
          "expectedReturn": "12-18%",
          "maxDrawdown": "8-12%",
          "winRate": "65%",
          "sharpeRatio": 1.4
        },
        "features": [
          "Simple moving average signals",
```

```
"Trend confirmation filters",
          "Risk management rules",
          "Backtesting included"
        ],
        "aiFeatures": [
          "Auto trend detection",
          "Dynamic stop losses",
          "Market regime analysis",
          "Signal confidence scoring"
        "platforms": ["tradingview", "metatrader"],
        "timeframes": ["1h", "4h", "1d"]
      }
    ],
    "meta": {
      "totalStrategies": 6,
      "availableForTier": 2,
      "categories": ["trend_following", "mean_reversion", "momentum",
"income", "options", "arbitrage"]
  }
}
```

### Platform Integration

### **Get Supported Platforms**

**GET** /onboarding/platforms

Retrieves available trading platforms with integration details.

```
JSON
  "success": true,
  "data": {
    "platforms": [
        "id": "tradingview",
        "name": "TradingView",
```

```
"description": "Advanced charting platform with social trading
features",
        "requiredTier": "basic",
        "integrationLevel": "full",
        "dataLatency": "< 100ms",
        "supportedMarkets": ["stocks", "forex", "crypto", "futures",
"options"],
        "features": [
          "Advanced charting tools",
          "Social trading community",
          "Custom indicators",
          "Real-time market data"
        ],
        "aiIntegration": [
          "Chart pattern recognition",
          "Social sentiment analysis",
          "Custom indicator signals"
        ],
        "connectionStatus": "available",
        "setupComplexity": "easy"
      }
    ]
 }
}
```

# ✓ Completion & Summary

### **Complete Onboarding**

**POST** /onboarding/session/{sessionId}/complete

Finalizes the onboarding process and activates user profile.

```
{
    "finalReview": true,
    "acceptTerms": true,
    "activateProfile": true,
```

```
"enableNotifications": true
}
```

```
JSON
  "success": true,
  "data": {
    "completionId": "completion_12345",
    "sessionId": "session_67890",
    "userId": "user_12345",
    "completedAt": "2024-12-28T11:15:00Z",
    "totalTime": 2700,
    "profile": {
      "experience": "intermediate",
      "riskTolerance": "moderate",
      "goals": ["growth", "learning"],
      "tradingStyle": "swing_trading",
      "platforms": ["tradingview", "metatrader"],
      "strategies": ["trend_following_ma", "mean_reversion_rsi"],
      "aiPersonality": "balanced",
      "communicationStyle": "detailed"
    },
    "activations": {
      "aiAssistant": true,
      "platformIntegrations": ["tradingview"],
      "strategies": ["trend_following_ma", "mean_reversion_rsi"],
      "notifications": true,
      "welcomeBonus": {
        "type": "premium_trial",
        "duration": "7_days",
        "features": ["all_strategies", "advanced_alerts", "priority_support"]
     }
    },
    "nextSteps": [
        "action": "connect_platform",
        "title": "Connect TradingView",
        "description": "Link your TradingView account for real-time
analysis",
       "priority": "high"
      },
        "action": "review_strategies",
        "title": "Review Your Strategies",
```

### **Get Onboarding Summary**

**GET** /onboarding/session/{sessionId}/summary

Retrieves comprehensive onboarding summary and analytics.

```
JSON
{
  "success": true,
  "data": {
    "summary": {
      "sessionId": "session_67890",
      "userId": "user_12345",
      "completedAt": "2024-12-28T11:15:00Z",
      "totalTime": 2700,
      "stepsCompleted": 9,
      "completionRate": 100
    },
    "profile": {
      "experience": "intermediate",
      "riskTolerance": "moderate",
      "goals": ["growth", "learning"],
      "tradingStyle": "swing_trading",
      "platforms": ["tradingview", "metatrader"],
      "strategies": ["trend_following_ma", "mean_reversion_rsi"],
      "aiPersonality": "balanced"
    },
    "analytics": {
      "stepTimes": [30, 45, 60, 40, 55, 50, 65, 70, 45],
      "hesitationPoints": ["risk_tolerance", "strategy_selection"],
      "aiConfidence": 0.89,
      "profileStrength": 0.92,
      "recommendationAccuracy": 0.85
    },
```

```
"activations": {
    "aiAssistant": true,
    "strategies": 2,
    "platforms": 2,
    "welcomeBonus": "7_day_premium_trial"
    }
}
```

### 🎭 Demo Mode API

### **Initialize Demo Session**

**POST** /onboarding/demo/initialize

Creates a demo session with pre-filled responses for presentations.

### **Request Body:**

```
JSON

{
    "demoType": "investor_presentation",
    "scenario": "advanced_trader",
    "autoAdvance": true,
    "stepDelay": 2000
}
```

```
"trading_style": "day_trading",
    "platform_preferences": ["tradingview", "metatrader"],
    "selected_strategies": ["momentum_breakout", "mean_reversion_rsi"]
},
    "settings": {
        "autoAdvance": true,
        "stepDelay": 2000,
        "showDemoBanner": true,
        "disableSubmissions": true
}
}
```

### Analytics & Tracking

### **Track Onboarding Event**

**POST** /onboarding/analytics/track

Records user interaction events for analytics.

```
"sessionId": "session_67890",
   "event": "step_completed",
   "data": {
        "stepId": "risk_tolerance",
        "stepIndex": 2,
        "timeSpent": 45000,
        "interactionCount": 3,
        "hesitationPoints": ["volatility_comfort"],
        "finalSelection": "moderate"
    },
    "metadata": {
        "userAgent": "Mozilla/5.0...",
        "viewport": "1920x1080",
        "device": "desktop"
```

```
}
}
```

```
JSON
 "success": true,
  "data": {
   "eventId": "event_789",
   "tracked": true,
    "timestamp": "2024-12-28T10:45:00Z"
 }
}
```

### **A** Error Handling

### **Error Response Format**

```
JSON
  "success": false,
  "error": {
    "code": "ERROR_CODE",
    "message": "Human-readable error message",
    "details": {
      "field": "specific_field",
      "value": "invalid_value",
     "expected": "expected_format"
    },
    "timestamp": "2024-12-28T10:30:00Z",
    "requestId": "req_12345"
  }
}
```

### **Common Error Codes**

INVALID\_SESSION - Session not found or expired

- INVALID\_STEP Step ID or index is invalid
- VALIDATION\_ERROR Request data validation failed
- UNAUTHORIZED Authentication required or invalid
- RATE\_LIMIT\_EXCEEDED Too many requests
- INTERNAL ERROR Server-side error occurred

## Rate Limiting

### **Rate Limits**

- General API: 100 requests per minute per user
- Al Analysis: 20 requests per minute per user
- **Demo Mode**: 200 requests per minute (higher limit for presentations)

### **Rate Limit Headers**

#### Plain Text

X-RateLimit-Limit: 100
X-RateLimit-Remaining: 95
X-RateLimit-Reset: 1640707200

### Testing & Development

### **Sandbox Environment**

**Base URL:** https://api-sandbox.platform.com/v1

### **Test Data**

```
JSON

{
    "testUserId": "test_user_123",
    "testSessionId": "test_session_456",
    "demoApiKey": "demo_key_789"
}
```

### **Webhook Testing**

```
Bash

# Test webhook endpoint
curl -X POST https://your-app.com/webhooks/onboarding \
   -H "Content-Type: application/json" \
   -d '{
      "event": "onboarding_completed",
      "sessionId": "session_67890",
      "userId": "user_12345",
      "timestamp": "2024-12-28T11:15:00Z"
   }'
```

### **SDK & Libraries**

### **JavaScript SDK**

```
JavaScript

import { OnboardingAPI } from '@platform/onboarding-sdk';

const api = new OnboardingAPI({
    apiKey: 'your_api_key',
    baseURL: 'https://api.platform.com/v1'
});

// Initialize session
const session = await api.initializeSession({
    userId: 'user_123',
    isDemo: false
});
```

```
// Submit response
const result = await api.submitResponse(session.sessionId, {
   stepId: 'experience',
   data: { experience: 'intermediate' }
});
```

#### **React Hooks**

```
JavaScript
import { useOnboardingSession } from '@platform/react-onboarding';
function OnboardingWizard() {
 const {
    session,
    currentStep,
    submitResponse,
   nextStep,
   isLoading
  } = useOnboardingSession('user_123');
  return (
   <div>
      {/* Wizard implementation */}
    </div>
  );
}
```