

# AttenTrack - Attention Assessment Platform

## Technical Documentation

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## 1. Project Overview

AttenTrack is a comprehensive attention assessment platform built on WordPress. It provides various attention tests, user management, subscription plans, and detailed analytics.

### Core Functionalities

- User Authentication (Google, Facebook, Phone)
- Subscription Management
- Attention Tests
- Progress Tracking
- Analytics Dashboard

## 2. System Architecture

### Technology Stack

- WordPress Core
- PHP 7.4+
- MySQL Database
- Bootstrap 5
- Firebase Authentication
- Razorpay Payment Gateway

### Directory Structure

```
wp-content/themes/attentrack/  
├── includes/  
│   ├── razorpay-config.php  
│   └── social-login-config.php  
├── templates/  
│   ├── tests/  
│   │   ├── test-phase-0-template.php  
│   │   └── trialtest3.php  
│   └── subscription.php  
├── functions.php  
└── index.php
```

## 3. Features Implementation

### 3.1 Attention Tests

- Multiple test types
- Randomized questions
- Time tracking
- Score calculation
- Progress saving

### 3.2 User Dashboard

- Test history
- Performance analytics
- Subscription status
- Profile management

### 3.3 Administration

- User management
- Test management
- Subscription oversight
- Payment tracking

## 4. Database Schema

### WordPress Core Tables

- wp\_users
- wp\_usermeta

### Custom Tables

```
-- Subscription Plans
CREATE TABLE wp_subscription_plans (
  id int(11) NOT NULL AUTO_INCREMENT,
  plan_name varchar(100) NOT NULL,
  access_limit int(11) NOT NULL,
  price decimal(10,2) NOT NULL,
  description text,
  PRIMARY KEY (id)
);

-- User Subscriptions
CREATE TABLE wp_user_subscriptions (
  id int(11) NOT NULL AUTO_INCREMENT,
  user_id bigint(20) NOT NULL,
  plan_id int(11) NOT NULL,
  start_date datetime NOT NULL,
  end_date datetime,
  access_count int(11) DEFAULT 0,
  status varchar(20) NOT NULL,
  PRIMARY KEY (id)
);
```

```
-- Payment Logs
CREATE TABLE wp_subscription_payment_logs (
  id int(11) NOT NULL AUTO_INCREMENT,
  user_id bigint(20) NOT NULL,
  plan_id int(11) NOT NULL,
  razorpay_order_id varchar(100),
  razorpay_payment_id varchar(100),
  amount decimal(10,2) NOT NULL,
  status varchar(20) NOT NULL,
  error_message text,
  created_at datetime NOT NULL,
  PRIMARY KEY (id)
);
```

## 5. Authentication System

### 5.1 Social Login Integration

- Google OAuth 2.0
- Facebook OAuth
- Phone Number (Firebase)

### 5.2 Configuration Requirements

```
// Google OAuth
define('GOOGLE_CLIENT_ID', 'YOUR_CLIENT_ID');
define('GOOGLE_CLIENT_SECRET', 'YOUR_CLIENT_SECRET');

// Facebook OAuth
define('FACEBOOK_APP_ID', 'YOUR_APP_ID');
define('FACEBOOK_APP_SECRET', 'YOUR_APP_SECRET');

// Firebase
define('FIREBASE_API_KEY', 'YOUR_API_KEY');
define('FIREBASE_PROJECT_ID', 'YOUR_PROJECT_ID');
```

## 6. Subscription System

### 6.1 Subscription Plans

#### 1. Stage 1: One-time Access

- Price: ₹99
- Single test access

#### 2. Stage 2: Two-person Access

- Price: ₹179
- Access for two users

#### 3. Stage 3: Three-person Access

- Price: ₹249
- Access for three users

#### 4. Stage 4: Unlimited Access

- Price: ₹499
- Unlimited user access

### 6.2 Payment Integration

- Razorpay payment gateway
- Secure payment processing
- Payment verification
- Transaction logging

### 6.3 Subscription Management

- Access control
- Usage tracking
- Renewal notifications
- Expiry handling

## 7. Test Management

### 7.1 Test Types

- Attention span assessment
- Cognitive performance
- Response time measurement
- Pattern recognition

### 7.2 Test Flow

1. User authentication
2. Subscription verification
3. Test selection
4. Test execution
5. Result calculation
6. Progress saving

## 8. Setup Instructions

### 8.1 Prerequisites

- WordPress 5.8+
- PHP 7.4+
- MySQL 5.7+
- Composer

### 8.2 Installation Steps

1. Clone repository
2. Install dependencies:

```
composer require razorpay/razorpay
composer require google/apiclient
composer require facebook/graph-sdk
```

### 3. Configure authentication:

- Set up Google OAuth credentials
- Configure Facebook App
- Set up Firebase project
- Configure Razorpay account

### 4. Database setup:

- Run WordPress installation
- Execute custom table creation scripts
- Import initial subscription plans

### 5. Theme activation:

- Activate AttenTrack theme
- Configure payment settings
- Set up email notifications

## 8.3 Configuration Files

Update the following configuration files with your credentials:

- `includes/razorpay-config.php`
- `includes/social-login-config.php`

## 8.4 Testing

1. Test social login functionality
2. Verify payment processing
3. Check subscription management
4. Validate test execution
5. Confirm email notifications

## Support and Maintenance

- Regular updates
- Security patches
- Bug fixes
- Feature enhancements