# AwareIA API Documentation

This document provides the API structure for AwareIA, an AI-powered tactical awareness and scouting platform for soccer coaches. It details the available endpoints, authentication, data structures, and AI-driven insights.

## 1. Authentication & User Management

These endpoints handle user registration, login, and authentication.

🔹 Register a New User

POST /auth/signup

Request:

{  
 "name": "John Doe",  
 "email": "john@example.com",  
 "password": "securepassword"  
}

Response:

{  
 "message": "User created successfully",  
 "user\_id": 12345,  
 "token": "jwt\_token\_here"  
}

🔹 User Login

POST /auth/login

Request:

{  
 "email": "john@example.com",  
 "password": "securepassword"  
}

Response:

{  
 "token": "jwt\_token\_here",  
 "user\_id": 12345  
}

## 2. Match Data & Opponent Information

Endpoints to fetch match history, team standings, and upcoming match schedules.

🔹 Get Match History

GET /games/{team\_id}

Response:

[  
 {  
 "match\_id": 1,  
 "team\_id": 101,  
 "opponent\_id": 202,  
 "date": "2024-03-10",  
 "goals\_for": 2,  
 "goals\_against": 1,  
 "result": "win"  
 }  
]

🔹 Fetch Upcoming Matches

GET /league/matchups/{team\_id}

Response:

[  
 {  
 "match\_id": 5,  
 "opponent\_name": "Smithtown FC",  
 "date": "2024-03-20"  
 }  
]

## 3. AI-Driven Scouting Reports & Insights

Coaches can submit scouting reports, and AI will generate insights for future matchups.

🔹 Submit a Scouting Report

POST /scout/submit

Request:

{  
 "game\_id": 1,  
 "opponent\_id": 202,  
 "tactical\_notes": "Strong midfield, weak defense",  
 "weaknesses": "Slow transition play",  
 "strengths": "Aggressive pressing"  
}

Response:

{  
 "message": "Scouting report submitted successfully"  
}

🔹 Get AI-Generated Opponent Insights

GET /ai/insights/{opponent\_id}

Response:

{  
 "opponent\_name": "Smithtown FC",  
 "strengths": "High attacking tempo",  
 "weaknesses": "Struggles against counter-attacks",  
 "recommended\_strategy": "Utilize fast breaks and diagonal passes"  
}

## 4. SWOT Analysis for Team Performance

AwareIA compiles team strengths and weaknesses based on opponent feedback and past matches.

🔹 Retrieve SWOT Analysis

GET /ai/swot/{team\_id}

Response:

{  
 "team\_name": "RUFC Galaxy",  
 "strengths": ["Strong defensive line", "High passing accuracy"],  
 "weaknesses": ["Inconsistent set-piece defending", "Slow starts"],  
 "opportunities": ["Exploit opponent's defensive gaps", "Increase midfield control"],  
 "threats": ["Opponent's fast wingers", "High pressing style"]  
}

## 5. Notifications & Pre-Match Reports

AI automatically sends match preparation insights to coaches before game day.

🔹 Subscribe to Match Reports

POST /notifications/subscribe

Request:

{  
 "user\_id": 12345,  
 "team\_id": 101  
}

Response:

{  
 "message": "Subscribed to match reports successfully"  
}

## 6. Deployment & Security Considerations

⚡ \*\*Secure Authentication\*\* – JWT-based token system for user sessions.

⚡ \*\*Rate Limiting & API Throttling\*\* – Prevent abuse by limiting API calls per minute.

⚡ \*\*Data Encryption\*\* – Store sensitive data using bcrypt for passwords and SSL for data transfer.