

# Individual Contribution Report

## SwingAI - AI-Powered Cricket Performance Analysis Platform

### Role & Responsibilities

#### Medical Reports, Player Profiles & Documentation Lead

Managed the medical reporting system with comprehensive injury tracking, individual player profile pages, coach-specific dashboard features, theming infrastructure, and complete project documentation.

### Key Contributions

#### 1. Medical Reports System

Component	File	Contribution
Medical Reports Page	src/pages/MedicalReports.tsx	Built comprehensive injury tracking dashboard with severity levels and recovery progress.
Medical Data Model	src/pages/MedicalReports.tsx	Defined MedicalReport interface with 15 fields including treatment plans and doctor assignments.
Injury Severity	src/pages/MedicalReports.tsx	Implemented 4-tier severity classification with color-coded badges.
Search & Filter	src/pages/MedicalReports.tsx	Search by name/injury; filter by severity and status.

#### 2. Player Profile Pages

##### Technical Highlights:

- Created detailed individual player pages with 3-tab navigation (Overview / Analysis / History).
- Implemented Skills Radar chart with 6 dimensions (Speed, Consistency, Form, etc.).
- Handled URL parameters for player ID (/team/:id) for dynamic data loading.

#### 3. Coach Dashboard Features

- Coach View Toggle:** Switched between Player and Coach layouts seamlessly.
- Injury Alerts:** Built a dedicated panel with severity indicators and status tracking.
- Report Generation:** Developed a PDF report modal with team summaries and actionable recommendations.

#### 4. Theme System & Styling

**Unified Color Scheme:** Extended theme.json to include a full suite of bowling-specific colors (main, light, dark, accent) to match the green/cream batting theme.

```
"bowling": {  
  "main": "#48A111",  
  "light": "#58B81E",  
  "dark": "#25671E"  
}
```

## 5. Project Documentation

- **README.md:** Wrote 800+ lines covering installation, technology stack, and metrics.
- **AGENTS.md:** Created a 1000+ line guide for AI agent code generation and verification.

## Problem Solving

Challenge (Medical Privacy): **Handled sensitive health information by implementing local-only data storage logic.** Challenge (Theme Consistency): Managed 10+ CSS custom properties to ensure bowling and batting views felt like a unified product.

## Impact & Outcomes

- **User Experience:** Delivered professional report generation for team stakeholders.
- **Code Quality:** Achieved 100% type-safe models for all medical and player data.
- **AI Readiness:** Established the AGENTS.md standard to prevent LLM hallucinations during future contributions.