

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 <code>MedicalReport</code> 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.