Lawn Bowls Scoring Software – Data-Driven System Design

Objective

To develop a user-friendly and analytics-driven lawn bowls scoring software that captures match data seamlessly while ensuring smooth usability in outdoor conditions (sunlight/floodlights). The system will balance on-field quick inputs with backend analytics to enable strategic insights, game analysis, and storytelling.

System Overview

What the Software Will Do

- 1. 1. Frontend (For Players/Scorers on Field)
- Enable quick and simple data entry per End (score, jack position, playstyle, etc.).
- - Support high-contrast UI for outdoor/floodlight visibility.
- Avoid complex text inputs; use checkboxes, dropdowns, and toggles.
- 2. 2. Backend (For Data Analytics & Insights)
- Process Win Probability, Pressure Index, Performance Trends.
- - Store match history for player analytics & storytelling.
- Auto-calculate strategic game metrics.

How to Do It (UI/UX Design & Flow)

1. Frontend UI Elements (Scorer Input)

- End Number → Auto-incremented (Editable if needed)
- Team A & Team B Score → Number Picker (0-9)
- Confirm Score? → Checkbox (Prevents accidental entries)
- Jack Placement → Dropdown (Short / Medium / Long)
- Winning Shot Type → Dropdown (Draw / Drive / Weighted / Other)
- Last Bowl Impact? → Toggle (Yes/No)
- Touchers Count \rightarrow Number Picker (0-4)
- End Type (Tactical Summary) → Dropdown (Defensive / Aggressive / Balanced / Comeback)
- Notable Play? → Checkbox (Game-Changing Moment)
- Manual Notes → Short Text (15-word limit, optional)

2. Backend Processing & Data Analytics

- Leader After Each End → Auto-calculated
- Margin of Lead → Auto-calculated
- Win Probability Per End \rightarrow Computed Algorithmically
- Pressure Index Per End → Based on score gap & bowl count
- Shot Accuracy & Performance Trends \rightarrow AI-driven analysis

Developer Task List

See the attached Excel file for a detailed breakdown of tasks.