Auroria — Season Loop & AI Clubs Blueprint (v2)

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Executive Summary

Milestone: liga hidup multi-musim dengan AI klub aktif (transfer, taktik adaptif), fast-sim AI vs AI, disiplin/cedera carry-over, ekonomi & sponsor dinamis. Semua serba data-driven (YAML/CSV/JSON) dan terhubung UI Next.js.

- Loop tahunan: Pre-season   38 pekan   End-season   Off-season (youth, ekonomi, sponsor, transfer).
- Fast-sim AI vs AI: Poisson berbasis rating + home advantage + kontrol varian.
- API App Router: /api/season/state, /api/season/advance, /api/table/[division].

Core Data Models (snippet YAML)

league_rules.yaml

```
season_name: Auroria 1003 A.E.
divisions:
- id: APL
name: Arcadia Premier League
teams: 20
rounds: 2
points:
win: 3
draw: 1
loss: 0
tiebreak:
- GD
- GF
- H2H
- Playoff
promotion: 0
relegation: 3
home_advantage: 0.12
cups:
- id: ARC_CUP
name: Arcane Royal Cup
type: knockout
rounds:
- R32
- R16
- QF
- SF
- F
```

ai_club_policies.yaml

```
transfer_window_weeks:
- 5
- 6
- 7
- 8
- 22
- 23
```

```
- 24
- 25
wage_to_revenue_max: 0.75
tactics_triggers:
- condition: losing_by>=2 && minute>=70
action:
add_fw: 1
press: high
tempo: fast
```

Season State (JSON) contoh

```json
{
    "meta": {
        "season": "Auroria 1003 A.E.",
        "division": "APL"
    },
    "week": 1,
    "table": {
        "AEV": {
            "pts": 0,
            "gf": 0,
            "ga": 0,
            "gd": 0,
            "w": 0,
            "d": 0,
            "l": 0
        }
    },
    "fixtures": [
        {
            "week": 1,
            "home": "AEV",
            "away": "GHV",
            "kickoff": "Sat 16:00"
        }
    ],
    "suspensions": {},
    "injuries": {},
    "news": []
}
```

Algorithms & Flow

- Fixture: Berger rotation (H/A di putaran 2).
- Fast-Sim: Goals ~ Poisson( ); dari rating delta + home_adv; clamp agar μ 2.6.
- Tie-break: Pts GD GF H2H playoff.
- Transfer AI: need shortlist bid ceiling wage guard; fallback kandidat.
- Tactical AI: losing/winning triggers tempo/press/sub sesuai kebijakan.
- Discipline/Injury: decay pekanan, forced sub jika injury moderate.

API Contracts (example)

```
GET /api/season/state
    { week, table:{}, fixtures[], news[] }

POST /api/season/advance
    { ok:true, week:int }

GET /api/table/APL
    { division:'APL', table:[{club, pts, w,d,l,gf,ga,gd}] }
```