# EA Sports College Football – Feature Proposal (Forage Software Engineering Program – Task One)

Author: Ismail Muhammad

# **Feature Proposal: Crowd Momentum System**

#### Overview

The Crowd Momentum System models stadium energy where fan reactions influence on field performance. Loud cheering, chants, and crowd intensity can trigger temporary boosts or disruptions, making home field advantage truly impactful and reflecting the emotional core of college football.

### **Objectives & Value**

- Authenticity: Captures the passion of college crowds and the '12th man' effect.
- Strategy: Momentum swings reward clutch plays and disciplined coaching.
- Engagement: Adds narrative weight to comebacks, turnovers, and rivalry moments.

## **Key Mechanics**

- Team Momentum Meter fills on impactful events (TDs, sacks, interceptions, 4th down stops).
- Home■Field Advantage scales meter gain and audio intensity for the home team.
- Gameplay effects: High momentum grants focus/confidence buffs (quicker reads, cleaner routes); hostile noise can cause visiting miscommunications (missed audibles, occasional false starts).
- Interactive presentation: Adaptive crowd audio, dynamic camera shake at peaks, and on screen overlays communicate state without clutter.

# **Example Gameplay Scenario**

Down four late in Q4, the home defense snags an interception. The crowd erupts, the meter spikes, and the defense receives a short term awareness boost while the visiting offense struggles with snap timing amid deafening noise. The swing flips the game's outcome.

#### **Technical Considerations**

- Implementation: Event listeners publish momentum updates; audio mixer layers chants/volume by meter thresholds; temporary attribute modifiers apply via existing gameplay systems; accessibility option to limit camera shake/noise.
- Testing: Ensure momentum benefits do not snowball excessively; simulate CPU vs CPU games with varied teams/stadium sizes; telemetry to calibrate thresholds post■launch.