Attendify+ Data Structure & Flow Clarification Questions

# 🔶 STUDENTS

Unique Identification

- Should each student have a unique StudentID (e.g., BCA-2022-045) across their entire degree?

- Or is roll number only meaningful within a department + batch?

Batch and Semester

- How do you identify a batch? Year + Session? (2022-Fall, 2023-Spring)?

- Do students automatically move to the next semester every 6 months, or is it manually approved?

- Can a student ever repeat or skip a semester?

Program Linkage

- Can students change department (e.g., BCA to BBA)? Or once assigned, fixed?

# 🔶 TEACHERS

Department Mapping

- Can a teacher be assigned to more than one department (like BCA and BBA)? Confirmed ?

- Should the teacher have a primary department?

Subject Assignment per Semester

- How often is subject assignment done? Every semester?

- Can a teacher teach multiple subjects in different semesters (e.g., "Web Programming" in Sem 4, "PHP" in Sem 5)?

- Fixed Subjects or Dynamic Each Semester?

- Is there a fixed subject list per semester, or does it vary per academic session?

# 🔶 SUBJECTS & SEMESTERS

Curriculum Management

- Will admin define subjects per semester per department manually? (e.g., for BCA Sem 4: DBMS, PHP, JavaScript…)

- Can subjects be reused across departments?

Electives/Optional Subjects

- Do some semesters offer elective subjects? If so:

- Can students choose their subjects?

- Or are electives assigned by admin?

# 🔶 ENROLLMENT STRUCTURE

Enrollment Process

- When a new semester starts, will admin:

- Shift all students to the next semester?

- Assign teachers to current semester subjects?

- Should we preserve history (who taught what, who studied what, in which semester)?

Academic Calendar

- Is there a central calendar table needed for tracking:

- Semester Start/End Dates?

- Attendance active period?

# 🔶 EXTRA

Seminar/Workshop Handling

- Are seminars tied to subjects or departments or random?

- Are attendance rules the same for workshops (entry + exit scan)?

User Login System

- Are teacher/student login credentials linked to their profile table or kept separately?

- Will roles be stored in login\_tbl and reference student\_tbl, teacher\_tbl?