Functional Requirement 3

Student Attendance Check-in
This function allows students to check in their attendance during the allowed class time. Students must be logged in and can only check in once per class session. The system will record the check in time and update the attendance status automatically.

Pseudocode
1. START
2. READ studentID
3. READ password
4. IF studentID AND password is true THEN
      4.1 READ scannedCode, currentTime
      4.2 IF scannedCode is VALID AND currentTime IS WITHIN classSession THEN
          4.2.1 SET attendanceStatus = "Present"
          4.2.2 RECORD attendanceStatus FOR studentID
          4.2.3 DISPLAY "Attendance recorded successfully"
      4.3 ELSE
          4.3.1 DISPLAY "Invalid code or time expired"
      4.4 END IF
5. ELSE
      5.1 DISPLAY "Invalid login"
6. END IF
7. END

Flowchart

START

READ studentID, password

Is studentID and password TRUE? — TRUE → READ scannedCode, currentTime

FALSE

Is scannedCode is valid AND currentTime is within the session? — TRUE → SET attendanceStatus = "Present"

FALSE

DISPLAY "Invalid login"

DISPLAY "Invalid code or time expired"

RECORD attendanceStatus

DISPLAY "Attendance recorded successfully"

END