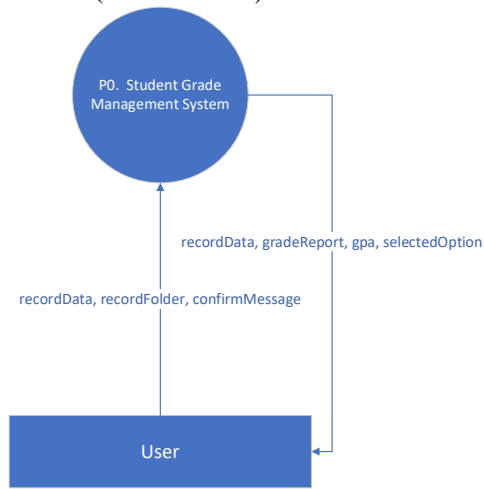


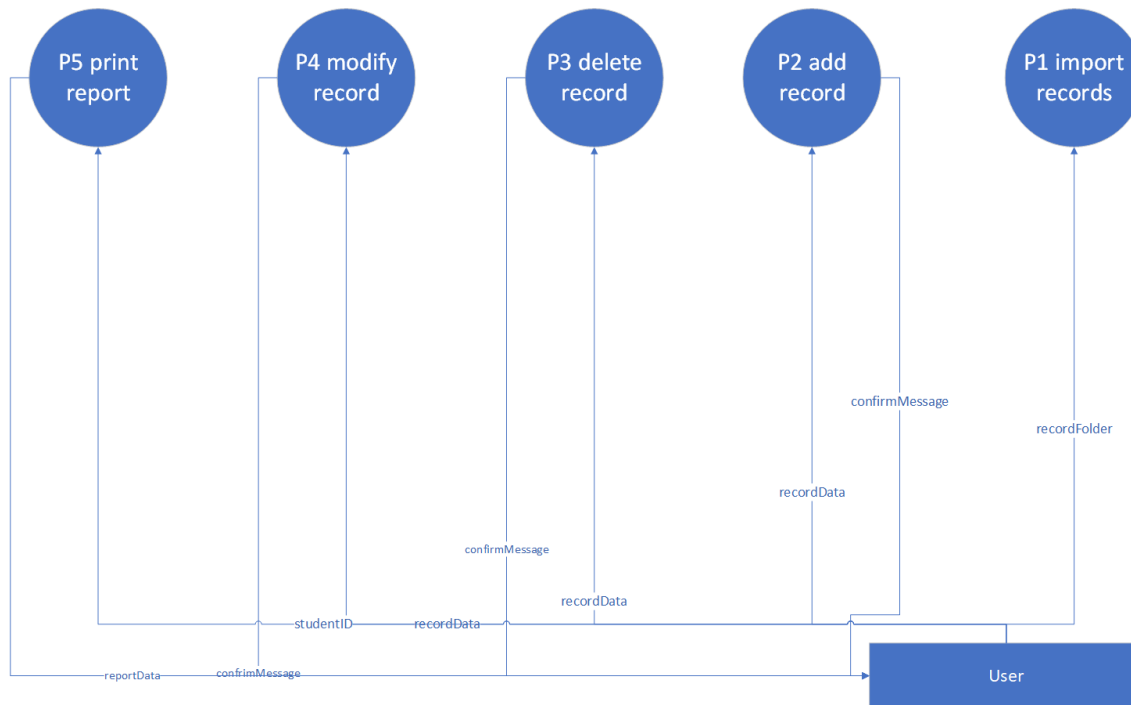
Data Dictionary

1. confirmMessage: Text displayed with a message box.
2. recordData (data structure): Data in a student grade record, including studentID, coursePrefix, courseNumber, grade, year, and semester.
3. selectedOption (data element): a Boolean value to decide to modify a grade record.
4. studentID (data element): 6-digits varchar.
5. coursePrefix (data element): 3-chars varchar.
6. courseNumber (data element): 3-chars varchar.
7. grade (data element): 1-char varchar.
8. year (data element): 4-digit varchar.
9. semester (data element): varchar.
10. hours (data element): digits varchar
11. overallGPA (data element): double.
12. recordFolder (data structure): data in Excel spreadsheet (comma-separated value: csv) with course grades for each student of a given semester and year including name, studentID, and grade and recordData.
13. retrievedData (data structure): name, overallGPA, and recordData.
14. reportData (data structure): report that includes name, overallGPA, studentID, courseNumber, coursePrefix, grade, year, semester, and hours.

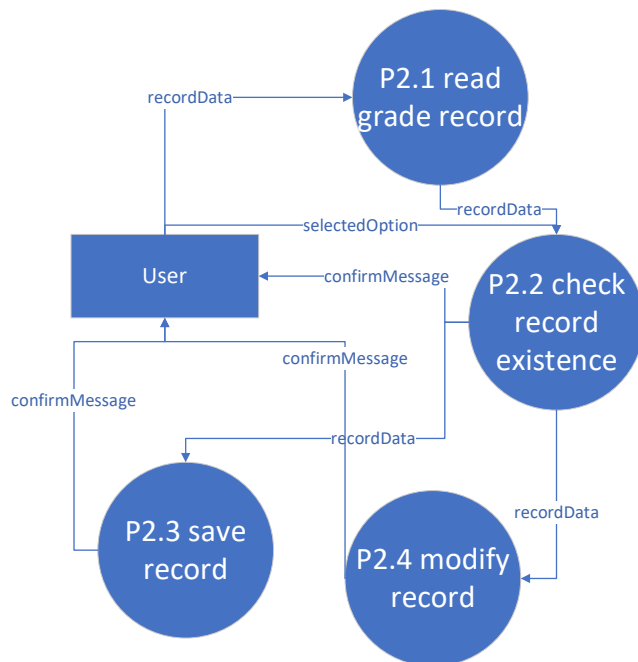
Level 0 (Context Level) DFD: The Student Grade Management System



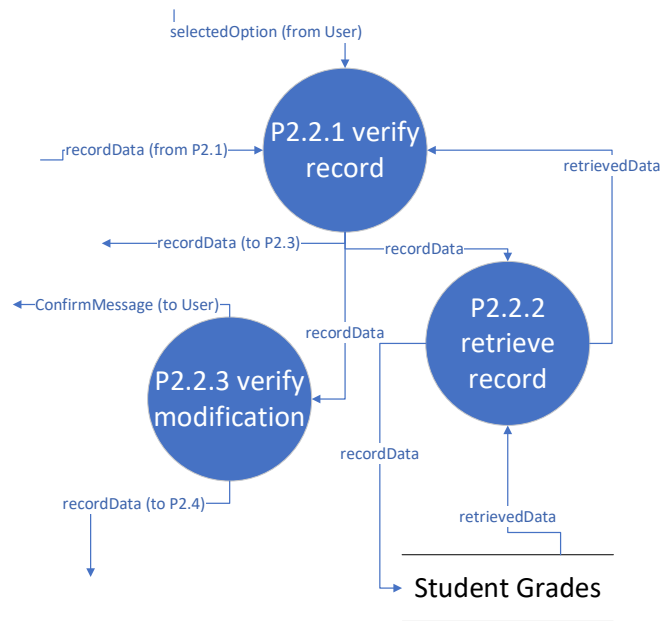
Level 1 DFD: Subsystems



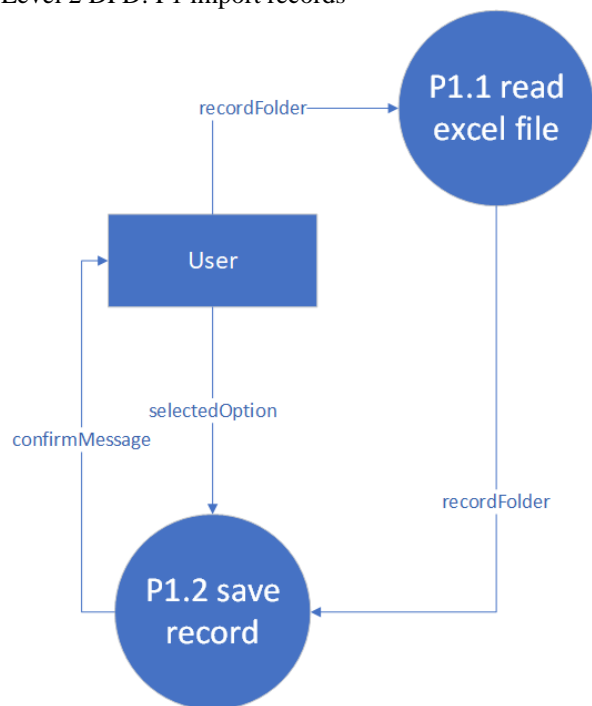
Level 2 DFD: P2 add record



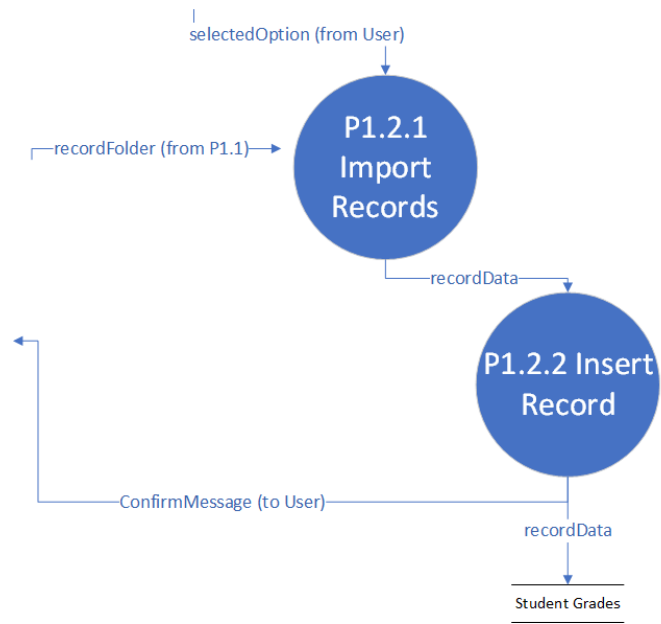
Level 3 DFD: P2.2 check record existence



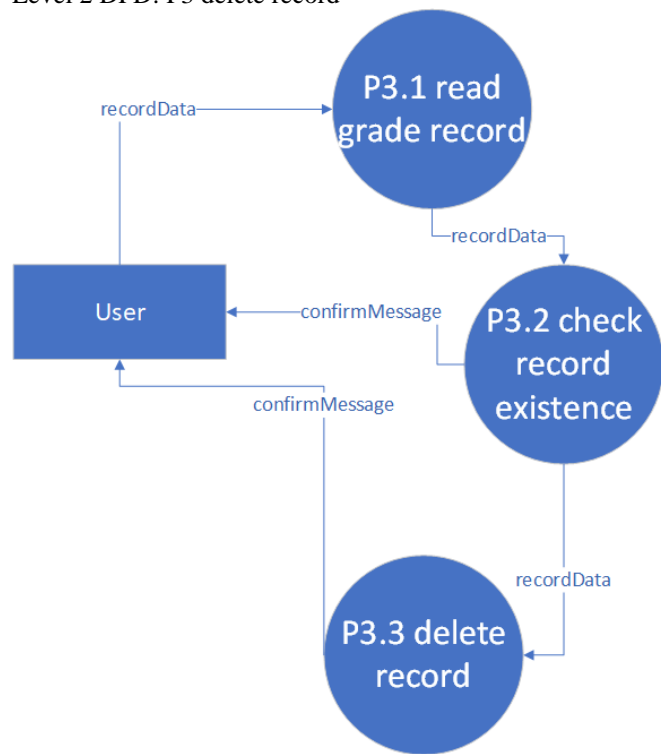
Level 2 DFD: P1 import records



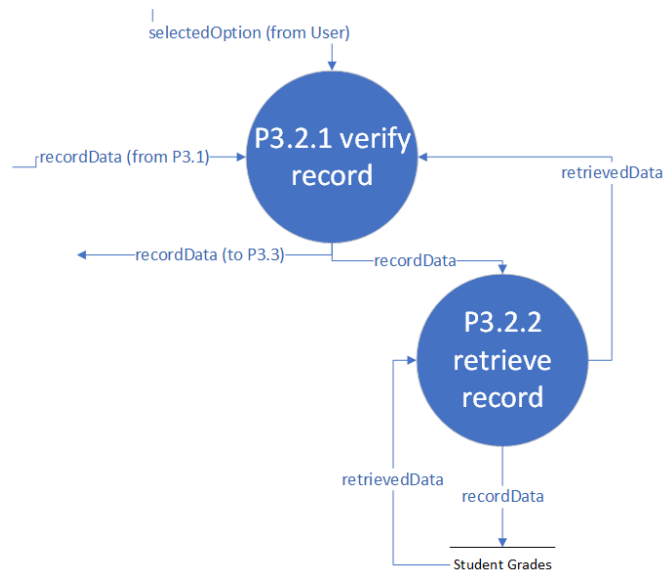
Level 3 DFD: P1.2 save record



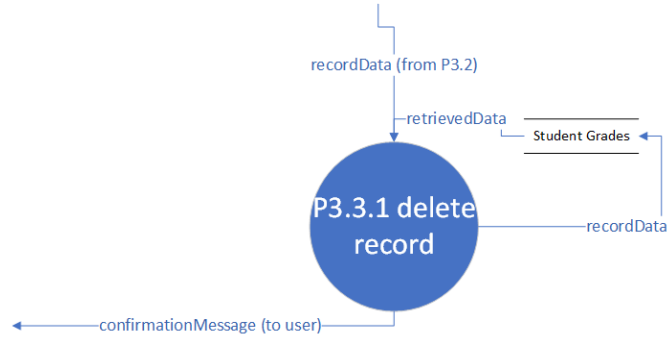
Level 2 DFD: P3 delete record



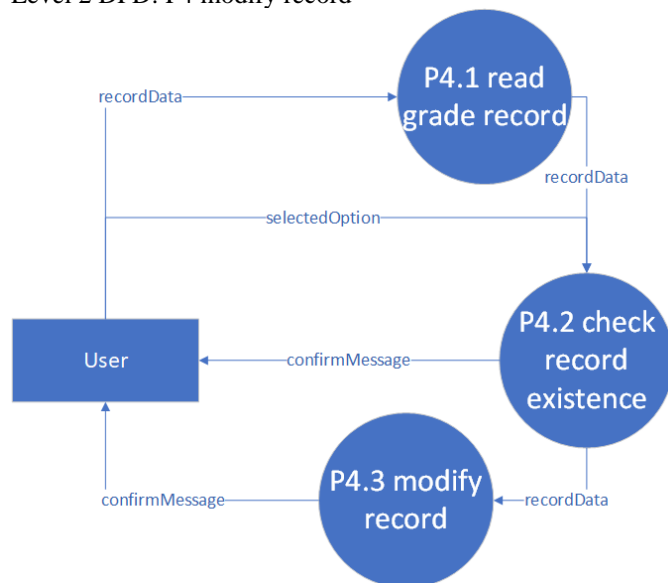
Level 3 DFD: P3.2 check record existence



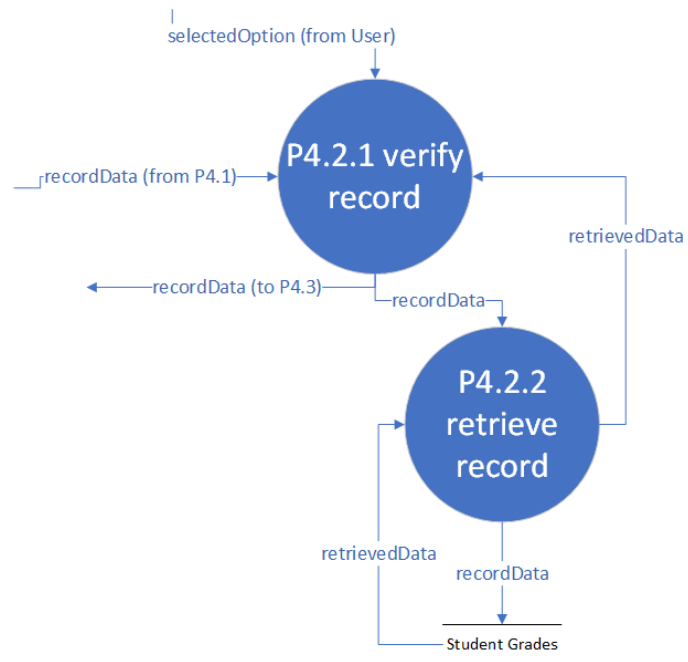
Level 3 DFD: P3.3 delete record



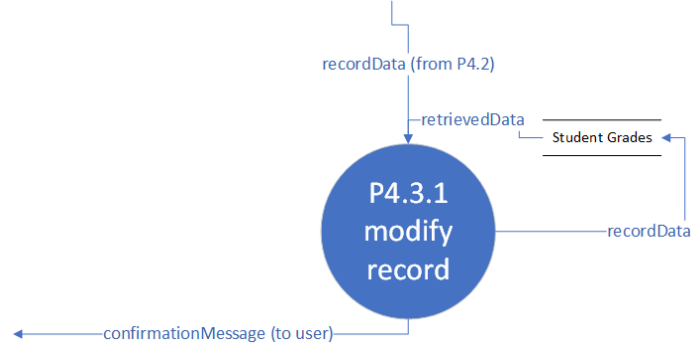
Level 2 DFD: P4 modify record



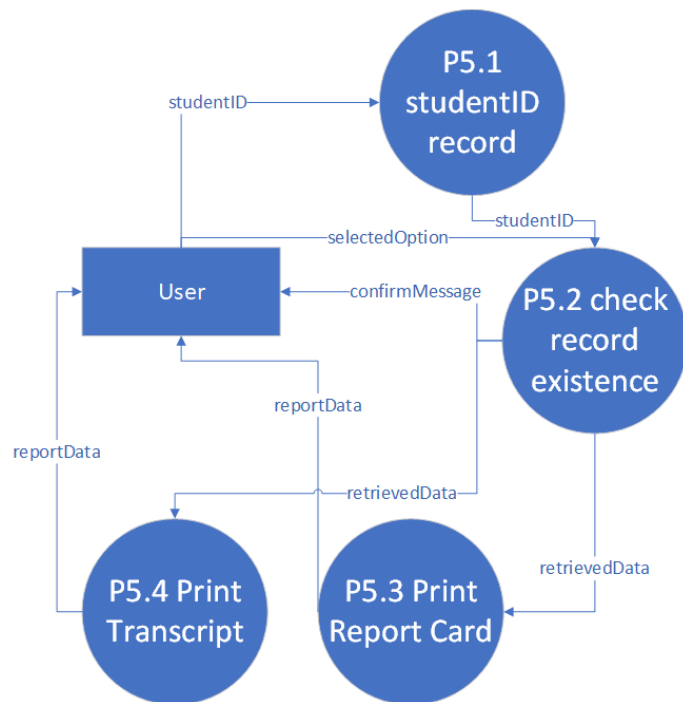
Level 3 DFD: P4.2 check record existence



Level 3 DFD: P4.3 modify record



Level 2 DFD: P5 print report



Level 3 DFD: P5.2 check record existence

