**BUSINESS RULES**

1. An Accountis used to log in to our SPMS web application. An Accounthas a name (first name, last name), local address, phone number, email address, password (?), account type.
2. An account type can only be one of the following: Admin, Student, Faculty etc.
3. An Accreditation Manualwill have documentId (identifier), document title, document URL, upload date, upload time, year.
4. A Studentwill have a studentID, studentType (e.g graduate or undergraduate), cgpa, department, major(s), minor(s), date of admission, potential year for graduation.
5. A Studentmust belong to only one department, and a departmentmay have many students.
6. Each Studentmay register for multiple OfferedCourses. An Offered Coursemay be registered by multiple Students. Studentscan only register for exactly one Sectionof an Offered Course.
7. A Faculty may be assigned to multiple Sections of multiple Offered Courses. A Section will always have one Faculty assigned to it.
8. An Admin will have a role and tasks. Despite having more functionalities in SPMS than any other user type, their own attributes will not be related in any other way.
9. A Department has many Courses, but a Course belongs to exactly one Department.
10. 11. A Course has courseid, course name, course description and a credit hour count.
11. 12. A Course may have multiple courses as prerequisites, and a course may be a prerequisite of another course.
12. A Department can offer certain courses as Offered Courses every Semester.
13. 14. A Semester has multiple Offered Courses but Offered Courses will belong to only one Semester every semester. A Semester has semester season (e.g. Autumn , Summer, etc.), year, start date and end date.
14. A Course may have multiple other courses as their prerequisites, and a course may be a prerequisite of multiple Courses.
15. A Course Assessment belongs to only one Section of an Offered Course. A Course Assessment must have multiple Questions. With each Question mapped to a specific Course Outcomes. Course Assessment will have course assessment id, course assessment title, total marks.
16. A Question will have courseAssessmentID and questioNo as its identifier. It will also have full marks, description and only one assigned course ID because a Question may be mapped to only one Course outcome. A student answers many questions, and a question is answered by many students.
17. A Faculty may be assigned to a department.
18. A Course Outcome has course outcome id and courseID as its identifier. Other attributes include course outcome description, domain level and pass threshold.
19. An Offered Course may have multiple Course Outcomes.
20. A course outcome may be mapped to multiple questions within a course.
21. A course outcome can be assigned to exactly one Offered Course. Program Learning Outcomes must be assigned on at least one Course Outcomes. A Course Outcome must be assigned multiple Program Learning Outcomes.
22. A Program Learning Outcomes will have PLOid (identifier), PLO title and PLO description. A program learning outcome must be mapped to at least one course learning outcome.