University Management System in Appian

Step 1: Create a New Appian Application

- 1. Log in to Appian Designer.
- 2. Click New -> Application.
- 3. Enter details:
-    - Name: University Management System
-    - Prefix: UMS_
-    - Description: An application for managing students, faculty, courses, enrollments, and exams
- 4. Click Create.

Step 2: Define Record Types (Entities)

- 2.1 Student Record: studentId, firstName, lastName, dateOfBirth, email, phone, address, program, semester
- 2.2 Faculty Record: facultyId, firstName, lastName, department, email, phone
- 2.3 Course Record: courseId, courseName, facultyId, description, credits
- 2.4 Enrollment Record: enrollmentId, studentId, courseId, semester, enrollmentDate
- 2.5 Exam Record: examId, courseId, examDate, examType, totalMarks
- 2.6 Exam Results Record: resultId, studentId, examId, marksObtained, grade

Step 3: Create Data Relationships

- - One-to-Many: Faculty to Courses
- - Many-to-Many: Students to Courses (via Enrollment)
- - One-to-Many: Courses to Exams
- - One-to-Many: Exams to Exam Results

Step 4: Build Interfaces

- 4.1 Student Management: Grid View, Profile Page, Add/Edit Form
- 4.2 Faculty Management: Grid View, Add/Edit Form
- 4.3 Course Management: Grid View, Assign Faculty, Details Page
- 4.4 Enrollment: Grid View, Enrollment Form
- 4.5 Exam Management: Grid View, Schedule Exam, Enter Results
- 4.6 Student Exam Results: Grid View, Download Report Card

Step 5: Develop Process Models

- 1. Student Enrollment Process
- 2. Faculty Assignment Process
- 3. Exam Scheduling Process
- 4. Exam Result Submission

Step 6: Configure User Roles & Security

- Roles: Admin (Full access), Faculty (Manage courses and exams), Student (View courses and results)
- Record-Level Security: Students view own data, Faculty manage assigned courses, Admins have full access.

Step 7: Test and Deploy

- 1. Run test cases for enrollment, exam scheduling, and result entry.
- 2. Validate security settings.
- 3. Deploy in Test before Production.