Project Design Phase Document

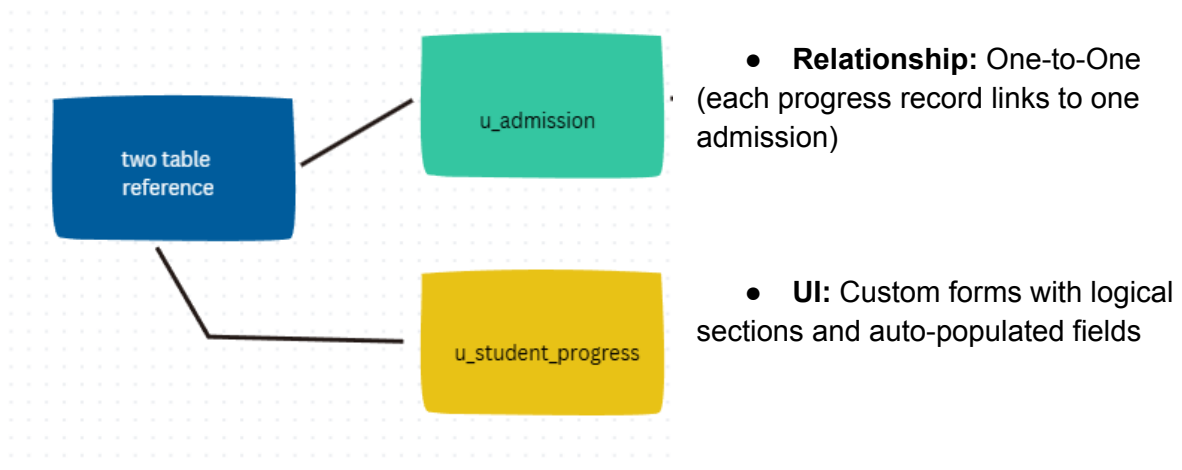|	
Date	2 November 2025
Team ID	NM2025TMID04318
Project Name	Educational Organisation using Service Now

1. Introduction

The Project Design Phase translates the requirements into a technical blueprint for implementation. This document outlines the data model, system architecture, form design, and integration strategy for the Educational Management System (EMS) in ServiceNow.

The design ensures:
- Data consistency through reference fields
- User-friendly interfaces via form layout
- Scalability for future enhancements

2.System Architecture

- **Relationship:** One-to-One (each progress record links to one admission)

- **UI:** Custom forms with logical sections and auto-populated fields

3.Data Model Design

Table1 : u_admission —>Admission Records

FIELD	TYPE	PURPOSE
admission_number	String	Unique ID (ADM-001)
student_name	String	Full name
grade	Choice	Academic level
father_cell	Phone	Parent contact
documents	Attachment	Application proof

Table2: u_student_progress —>Progress Tracking

FIELD	TYPE	PURPOSE
admission_record	Reference → u_admission	Links records
english, maths, science	Integer	Subject scores

4.Form Design

- Admission Form:
  Sections: "Student Info", "Parent Contact", "Documents"

- **Progress Form:**
  Dropdown: "Admission Record"

Auto-filled fields:
- Admission Number Grade
- Admission Number Student Name
- Admission Number Father Cell

Key Technique: Dot-Walking

5. Integration Strategy

COMPONENT	INTERGRATION METHOD	PURPOSE
Admission → Progress	Reference Field + Dot-Walking	Share data without duplication
Admission Number	Number Maintenance	Auto-generate ADM-001, ADM-002, etc.
Phone Validation	Client Script (onChange)	Ensure 10-digit mobile format
Future Workflow	Flow Designer (Planned)	Auto-approve → create student record