In this Case Study we are going to develop a customized "School Management System" application using Force.com platform.

This application is supposed to provide solutions to automate complete process of a School Management System following processes to reduce manual efforts and time.

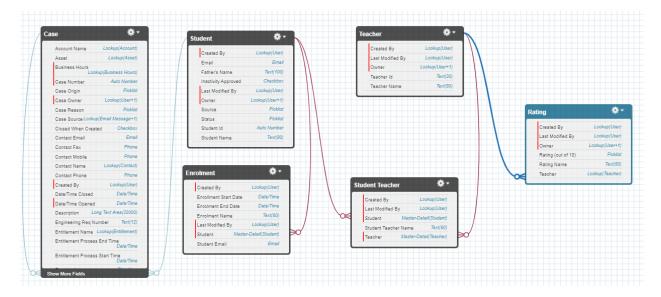
- <u>Different Entities would be</u>: Student, Enrolments, Teacher, Student Teacher, Cases, Ratings
- Description of different objects:
  - Student: To capture student details
  - o **Enrolment**: To capture admission/enrolment details for student
  - o **Teacher**: Details regarding Teacher
  - o **Student Teacher**: It's a Junction Object between Student and Teacher.
  - o Ratings: To capture feedback for performance regarding Teacher
  - o Cases: To capture different issues pertaining to Student/ from Student

#### • Object Wise Fields are: -

- Student: Name, Email, Father Name, Source (Picklist values based on Record Type),
  Student Id (Auto-Number), Status (Active/Inactive)-Picklist, Inactivity Approved
  (Checkbox)
- o **Enrolments:** Start Date, End Date, Student Email, Student (MD)
- o **Teacher:** Teacher Id (Auto-Number), Teacher Name
- Student Teacher: Student Teacher Name (Auto Number), Student (MD), Teacher (MD).
- Cases(standard): Case Origin, Description, Student (lookup on Student)
- o Ratings: Rating Name, Rating (out of 10), Teacher (LKP on Teacher)

Relationships among Objects as below:

# **ERD**:



# **Assumptions/Details**

- Possible values for source are: -
  - Marketing: Social Media, Newspaper
  - Non-Marketing: Direct, Referral.
- OWD would be Private by default unless stated for All Object.
- Possible values for Status are: Active and Inactive
- Users using our application have Profile similar to 'Cloned System Admin Profile i.e., Helpdesk Profile' for Helpdesk User with below permissions: -

Student: Read, Create

- Relationship between different combinations to be identified: -
  - Student & Teacher (Many to Many)
  - Student & Enrolment (One to Many)
  - Student & Case (One to Many)
  - Ratings & Teacher (One to Many)

- Following Fields should be visible for Student View: -
  - Marketing Record Type (RT): Name, Email, Father Name, Source, Status, Student Id, Inactivity Approved
  - Non-Marketing Record Type (RT): Name, Email, Father Name, Source, Status, Student
    Id, Inactivity Approved

# **Business Rules/Scenarios: -**

#### Validation Rules: -

- 1. User should not be able to enter new Student record without Email Id. Using Validation
- 2. Status for **Student** cannot be inactive while creating new record.
- 3. Enrolment Start Date can't be in past.

### Workflow Rules: -

- 4. If no status entered while **Student** creation, Assign status as active for Student.
- 5. Send email to 'Student email' on **Enrolment** creation (auto email population) -> we have to perform 2 actions.
  - a. Student Email field update on Appointment from Student Email Field
  - b. Email Alert

### **Process Builder**:

- 6. If Student become inactive than update all related child cases status to closed
- 7. Create a Dummy **Enrolment** whenever a new student record is created

#### Flows: -

- 8. Create a mechanism where user can submit feedback for Teacher on scale 0-10 using Screen flow.
- 9. If Status of **Student** is Active set source as direct (using record triggered)

# **Sharing Rules/Manual Sharing**

- 10. Share Student record with Mr. Sumit<<**Helpdesk User>>** if source is newspaper.
- 11. Share All Student with Mr. Sumit<<**Helpdesk User>>** which are created by admin

# **Field History Tracking**

12. All Changes on Student should be tracked.

#### **Assignment Rules**

- 13. Case assignment should be as follows: -
  - If Priority is High-> **High Priority Queue**
  - IF Priority is low-> Low Priority Queue

### **Escalation Rules**

- 14. Cases should be dealt as per below: -
  - High Priority Cases should be closed in 1 Hours otherwise assigned to Admin
  - o Low priority cases should be closed in 2 Hours otherwise assigned to Admin

### Approval process (Auto submission)

15. Whenever status got changed to **inactive (Picklist)** for a student, it should go to Admin for the approval and once Admin approved **'Inactivity approved'** checkbox must be checked.

Note: this checkbox is read only on page layout.

## Reports and dashboards

- 16. Information Required by Higher Management (create reports accordingly): -
  - Create a Dashboard which would give quick view about Students as per different sources.
  - o Create a dashboard which would give quick view about Teacher's ratings.

## **Permission Set**

17. One Student Mr. Sumit<<**Helpdesk user>>** having same profile needs edit access on student object

# **Data Loader**

- 18. Perform all operations on student object:
  - a. Export
  - b. Insert
  - c. Update
  - d. Delete
  - e. Upsert

#### Apex Batch & Schedulable:

19. Create a daily job to delete inactive students where Inactivity Approved is checked and Status in Inactive.

#### **Web Services**

20. Create a Webservices where you have to create a new record for Teacher's Object (Teacher Id, Teacher Name) from third party application using Workbench

### **LWC (Lightning Web Component)**

- 21. Create a LWC Component where you have to search Student details either by Name or email and then populate searched result
  - a. Searched result must include following fields:
    - a. Student Id, Name, email, Inactivity Approved