



Centralized Counselling Portal

Sharvil Turbadkar IST659

Project Summary

Background:

There are millions of students in India that pursue education abroad. With Spring 2018/Fall 2019 having as much as 10-15 million students as a tentative figure the scale of augmenting student experience is huge. As of now India does not have any system in place that helps students with a centralized experience.

Many students pursuing masters must go through an arduous process of paying hefty fees to commercialized counselors that too at the cost of getting stalled and not getting an individualized experience tailor-made for the student. The student must go through many hassles and mundane loads like getting recommendation from multiple teachers without having any prior knowledge of which teachers' recommendation would boost their profile the most.

Counselling companies have multiple students under their supervision and are all governed by a manager. Thus, catering to every student 's doubt and giving every student his respective university list becomes a hassle due to time constraint as there are many factors to be taken into consideration. Students must book appointments 2-3 weeks prior till which their process is stalled thus making it cumbersome for student to carry on with their formalities

Keeping legacy data to help future batches is also not in place as forms and log reports generated are backed by manual entries and making an accurate foolproof prediction for the student becomes very tough

Proposed Solution:

The solution I propose plans to make student experience hassle free by centralizing the experience gathering counsellors and students online on a single portal

Many Counsellors and students alike who have pursued their education abroad have prior knowledge of how the formalities and system fall into place. Their knowledge if they wish on sharing can be utilized utmost by signing them up on the portal.

Process

- A Counsellor signs in by filling in his necessary details.
- A student can sign in along with entering his essential details like his Name, Contact info, Academic Profile, Country of choice, Semester of choice, Major
- Upon evaluating his profile, the counsellor will suggest the student teachers to take recommendations from.
- After a teacher gets recommended, she can approve and sign the documents electronically by logging in and writing a letter of recommendation thus saving resources and time
- A counsellor then writes a sop and reviews the student's profile
- After Reviewing the entire profile, the counsellor suggests universities to apply to
- A counsellor tends to the student's needs by answering his questions and helping him in his other formalities like university registration, VISA and OFC
- After student gets placed successfully, he gives a review for his respective counsellor on different parameters
- This data is aggregated to review the counsellor and help further batch of students

Tables and Attributes

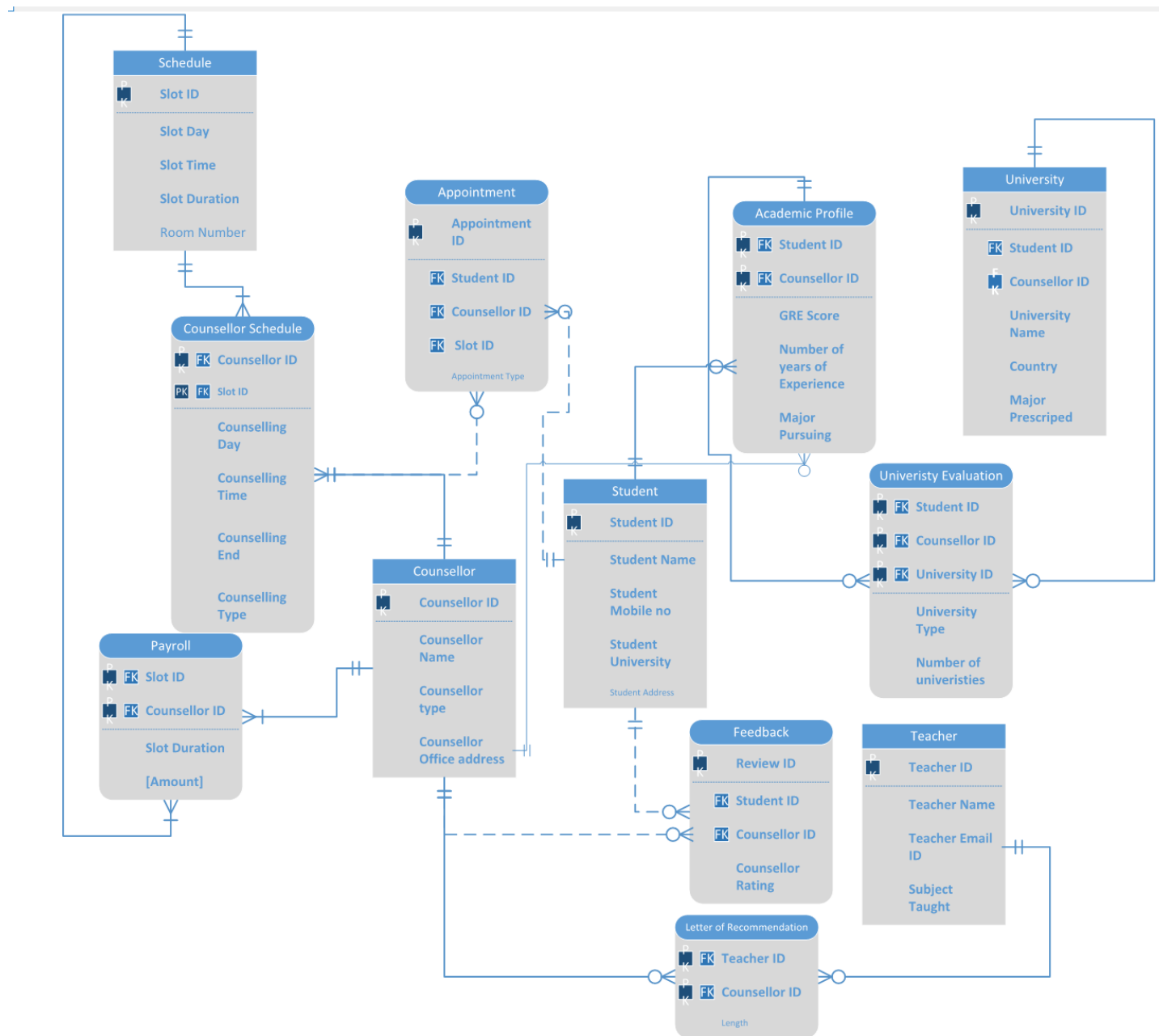
<u>DATAOBJECT:</u> Student Counselling	This database contains all the tables and relations that together build the Centralized Counselling Database.
Student	Stores Student Essential Details
Student ID Student Name Student Mobile Number Student Address	PRIMARY KEY: Each Student will have a unique ID to identify him from the rest such that it is easier for counsellors to keep track of students to
Counsellor	Stores counsellor details

<p>Counsellor ID</p> <p>Counsellor Name</p> <p>Counsellor Type</p> <p>Counsellor Rating</p> <p>Counsellor Mobile</p> <p>Counsellor Office</p>	<p>PRIMARY KEY: Each Counsellor will have a unique ID to identify him uniquely</p>
<p>Feedback</p>	<p>Every Counsellor is given a feedback by a student</p> <p>These feedbacks are aggregated for future uses which will make selecting a counsellor easier for the upcoming batches</p> <p>Primary key: Uniquely identifies each review given by a student to a counsellor by a Review ID</p>
<p>Teacher</p>	<p>Stores details of teacher who would be giving the LOR</p>
<p>Teacher ID</p> <p>Teacher Name</p> <p>Teacher Email</p>	<p>Primary Key: Every teacher has an ID that uniquely identifies it</p>
<p>Letter of Recommendation</p>	<p>Every teacher gives a letter of recommendation to a student</p> <p>Foreign Key: Associated with primary key of Student and teacher table</p> <p>The cardinality is zero or more as it is up to the teacher to give his/her recommendation</p>

University	Stores information about the university recommended by the counsellor
Student ID Counsellor ID Country University Name Major proposed	<p>PRIMARY KEY: Each University has a unique ID that Identifies it</p> <p>Foreign Key: Student ID and Counsellor ID act as foreign keys as each counsellor reviews a student's academic profile and suggests universities</p>
Academic Profile	Contains Academic information of Student
Student ID Counsellor ID Undergrad Score GRE Score TOEFL Score Years of exp Major Pursing	<p>Foreign Key: Student ID and Counsellor ID are used as foreign keys to uniquely identify an identifying relationship as student and counsellor ID can never be NULL</p>
University Evaluation	In this entity after the counsellor evaluates the academic profile he selects universities for the student

Schedule	<p>The Portal has a pre-existing schedule in place where different rooms are assigned for different purposes.</p> <p>Example: A conference room for Visa mock-ups</p> <p>A preexisting schedule with slots is in place to ensure there are no time mishaps or mismatches</p>
Shift Day Shift time Room Number Slot Duration	<p>Room Number pertains to the room where the appointment will take place</p> <p>Slot Duration is the total time duration the appointment was slotted for</p>
Appointment	<p>Every student will book an appointment depending upon the available slot.</p> <p>A booking ID is generated to log the appointment</p>
Counsellor Schedule	An entity that contains the Time schedule of every counsellor
Counsellor Day Counsellor Time Counselling Type	<p>Goes into granularity to make a holistic schedule</p> <p>Counsellor type refers to time of formalities that would be addressed. Like Statement of Purpose. Preparing for Culture Shock</p>
Payroll	Depending upon the total hours allotted for counselling the payroll is assigned

Relational data Model



Business rules:

1. Ever Counsellor must attend an appointment he schedules and abide by the slot duration mentioned
2. Every Student present in the system must belong to a valid University and must have valid credentials and marks uploaded to back up his academic profile
3. Similarly, a counsellor must have his/her qualifications uploaded for him/her to be enrolled as a counsellor
4. A University Type can take only three values: A[Ambitious],M[Moderate],S[Safe]
5. A Counsellor cannot view other counsellor's rating but can view her own rating
6. Counsellor Type can be a professional counsellor or an alumnus of a grad school
7. Counselling type can take only values VISA, SOP, OFC and Misc.
8. Student will get to finally approve the university from the list given
9. Amount is calculated by multiplying the slot duration by hourly pay of counsellor

Major data questions

1. How to store student, counsellor and teacher data on a single database and ensure seamless data flow within these entities without any hassles
2. Each Counsellor has how many students under him?
3. Which University gets has the highest placement rate?
4. Students seek which counselling help more often
5. Which university is the safest bet?
6. How many universities do students apply to?
7. How many students under which counsellor get placed in ambitious universities?
8. Which teachers get recommended more for LOR's
9. Which counsellors are the busiest?
10. How many Students have enrolled