

Section 1: Metadata

to be filled by the student

1.1. Project Information to be filled by the student

Title: University Admission Tracker Database Management	
Section: L2	Instructor: Umer Tariq

1.2. Student(s) Information

Name: Ashbah Faisal	ID: 08271
Section: L2	Batch: 2026

Name: Breeha Qasim	ID: 08283
Section: L2	Batch: 2026

Submission guideline: Save your project proposal as a pdf file and rename as Project Proposal_L1_ProposedTitle where L1 is to be replaced with your section

Section 2: The Project

to be filled by the student

2.1. Project Description: *Please provide a brief introduction of the project including its scope.*

The **University Admission Tracker Database Management System** is an ambitious project aimed at simplifying the complex process of applying to universities. Its primary scope is to create an accessible and user-friendly platform for students to search for universities in a specific country and city, while also allowing them to refine their choices based on admission criteria such as SAT scores, academic records, and other relevant factors. This platform is designed to simplify the complex process of exploring and selecting universities for students amidst preparations for their boards/CAIE's. By doing so, it not only saves time but also facilitates the process of narrowing down options, making it easier for each student to find their ideal university.

This system aims to provide students with a powerful tool to make informed decisions about their higher education journey by offering detailed university profiles that include critical information like admission prerequisites, university type, average annual cost of university, acceptance rate, application deadlines, campus locations, website link and contact details.

By encompassing these features, this project aims to empower students and streamline their university application process, ultimately helping them find the institutions where they best fit and meet the admission requirements.

2.2 Functional Requirements

This section describes each function/feature provided by your system. These functions are logically grouped into modules based on their purposes. The users in your system must be categorized such as client, customer or administrator etc. These users will be accessing the database with the level of access that they are authorized with.

Sample functional Requirements:

Module 1: Registrations

- Function 1: Register/Login an account

The system lets users register an account on the website as a client and as a customer.

– Function 1a: **Login/Register as a student:** The register form prompts the student to enter their details i.e. Name, Email, Password. The form is submitted and an unverified client account is created. The user receives a link on their email address which completes account verification.

– Function 1b: **Login as an administrator:** The register form prompts the user to enter their details i.e. Name, Email, Password. The form is submitted and an unverified customer account is created. The user receives a link on their email address which completes account verification.

Module 2: University Information Management

- Function 1: **Search Universities as Student:** A student should be able to search for universities based on various criteria, including country, city, admission criteria, and university type. A student can use filters like SAT scores, academic records, and other relevant factors to refine their search.
- Function 2: **Display Universities:** After searching and then clicking the view button, universities information will be displayed on screen which will only be read only.
- Function 3: **Adding Universities:** Administrators should have the privilege to add new universities to the system. The system should allow them to input university details, including name, location, admission criteria, website link, and contact information. This will happen when the Administrator clicks Register Button.
- Function 4: **Editing University:** Administrators should also be able to edit existing university profiles, including updating admission prerequisites, average annual cost, application deadlines, and other relevant information. This will happen when the Administrator clicks the Login Button.

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2.3. Planned Schedule: *Kindly list the start/end dates and the timeline for the achievement of any intermediate milestones and the expected contribution to be made by the participant(s).*

Week 5	Making ERD of our project
Week 6	Collecting university database
Week 7 and Week 8	Formulating database
Week 9	Implementing SQL
Week 10	Working on forms
Week 11	Writing backend python code
Week 12	Back-end connected to forms with python code
Week 13	Working on front end and finalizing edits
Week 14	Finalizing our project

2.4. Technology Stack: *If you are utilizing any language or database besides PyQt and SQL Server, please complete this section; otherwise, leave it blank. Specify the programming language and database management system intended for constructing this application, as well as the application type (Desktop, Web, or Mobile).*

Application Type: Desktop

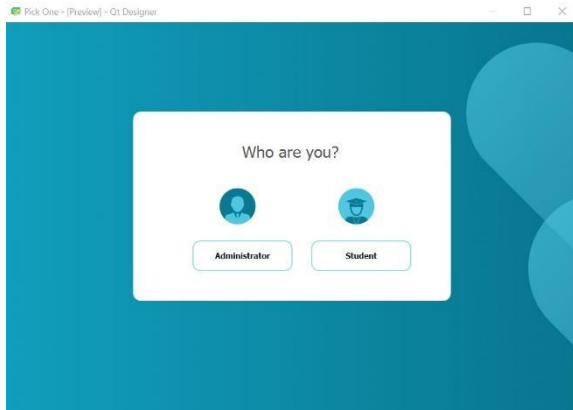
SOFTWARES:

1. DBdesigner
2. Visual Studio Code

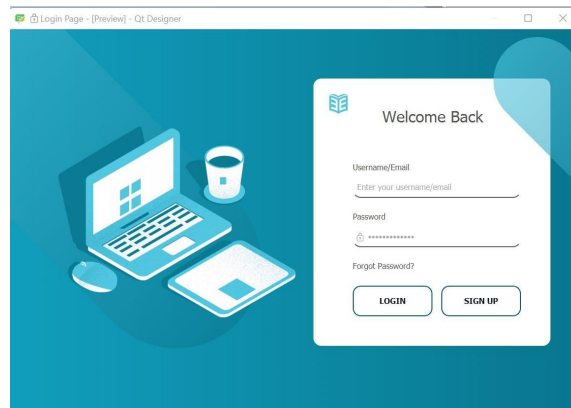
PROGRAMMING LANGUAGE:

1. Python

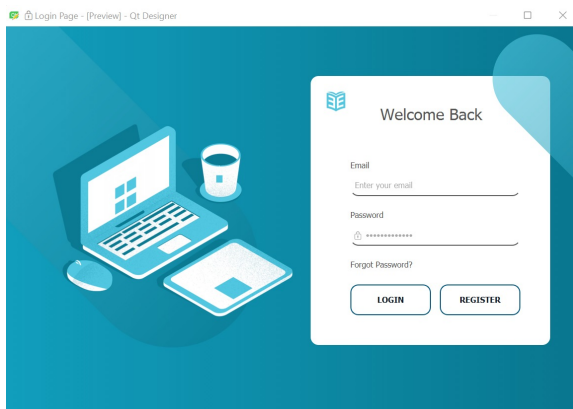
2.5. Screens: Provide images of all application screens, showcasing clear input and corresponding outputs. Ensure each image includes a concise caption explaining user action and expected/observed output. You can create these screens using Qt Designer.



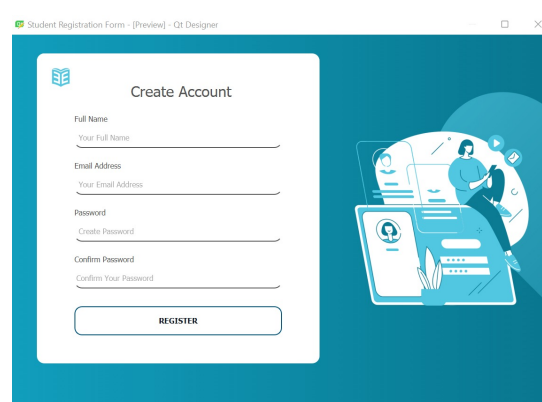
Page 1 - Pick any option



Page 2 - This window appears to "Student"

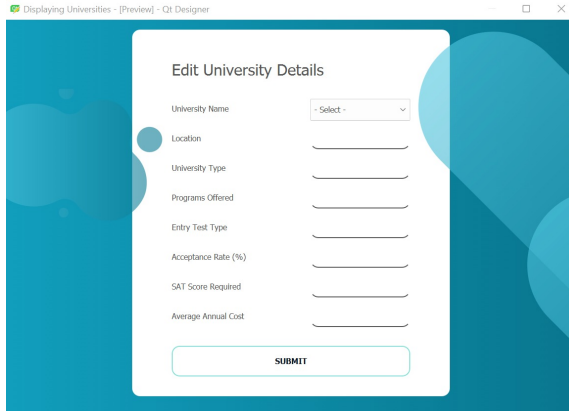


Page 3 - This window appears to "Administrator"



Page 4 - Student get this after clicking Sign Up

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Displaying Universities - [Preview] - Qt Designer

Edit University Details

University Name:

Location:

University Type:

Programs Offered:

Entry Test Type:

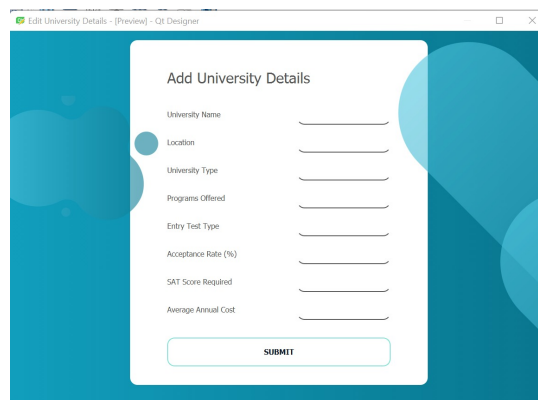
Acceptance Rate (%):

SAT Score Required:

Average Annual Cost:

SUBMIT

Page 5 - If Administrator click's Login > this appears



Edit University Details - [Preview] - Qt Designer

Add University Details

University Name:

Location:

University Type:

Programs Offered:

Entry Test Type:

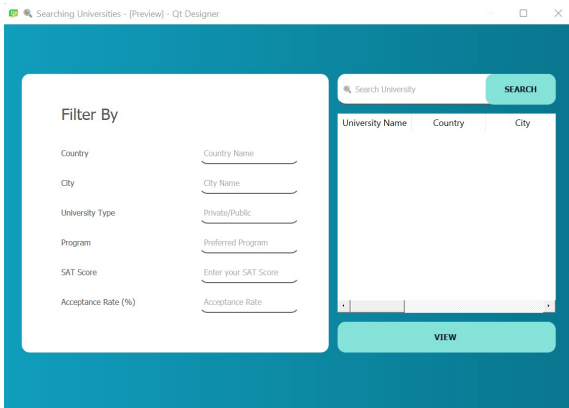
Acceptance Rate (%):

SAT Score Required:

Average Annual Cost:

SUBMIT

Page 6 - If Administrator click's "Register"



Searching Universities - [Preview] - Qt Designer

Filter By

Country:

City:

University Type:

Program:

SAT Score:

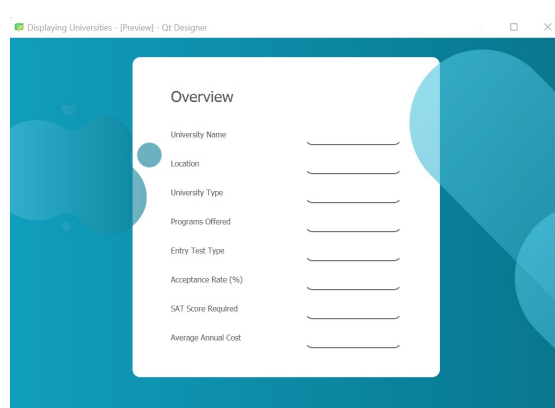
Acceptance Rate (%):

SEARCH

University Name: Country: City:

VIEW

Page 7 - Once Student get's the access s/he will be able to search University



Displaying Universities - [Preview] - Qt Designer

Overview

University Name:

Location:

University Type:

Programs Offered:

Entry Test Type:

Acceptance Rate (%):

SAT Score Required:

Average Annual Cost:

Page 8 - After Student click's View Button > this Read Only window appears which will have all information about University

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2.5. ERD: Please incorporate an initial ERD for your project, ensuring clear highlighting of primary keys and accurate depiction of table relationships. Avoid manual ERD creation; utilize tools like DBDesigner for this purpose.

