

PLACEMENT TRACKING AND ANALYSIS

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Section C**

ABSTRACT

This project is called Placement tracking and analysis. It is made so students could track their placement data such as the number of companies they applied to, got accepted by, or were rejected by. The code first requires the user (authorized teacher should update the database) to enter student details. The details are stored in a table called `student_details` in the database. Once the student details is added to said table, the teacher can now update the next table – `recruitment_details`. This table, as the name suggests, stores recruitment data of the students.

Once the details have been added, the teacher can view the whole database, or filter through the database by the name and usn of the student he/she wants to view details of. In the queries menu option, there are 4 sub-options: display all student details, display specific student details, display all recruitment details, display specific student details. As the option suggest, the information is displayed in the GUI itself in the form of tables. The widget used to make this possible is – tkinter's treeview widget.

This project is aimed to help teachers keep better track at their student's progress, since every company has 5 rounds and its status specifications will be shown in the database.

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be impossible without the mention of the people who made it possible, whose constant guidance and encouragement crowned our efforts with success.

I have great pleasure in expressing gratitude to **Dr. Mohan Manghnani**, Chairman of New Horizon Educational Institutions for providing necessary infrastructure and creating good environment.

I take this opportunity to express my profound gratitude to **Dr. Manjunatha**, Principal, New Horizon College of Engineering, for his constant support and encouragement.

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CHAPTER 1

INTRODUCTION

1.1 PROBLEM DEFINITIONS

Hundreds of students are recruited by an assortment of companies. Build an application that can store information pertaining students' recruitment status such as number of applications submitted, interview rounds cleared in total, number of offer letters received and the package amount, if any, number of students selected by a certain company and students' success rate.

1.2 OBJECTIVES

Placement tracker and analysis acts as a portal application for Teachers and students to check on students' progress and provide valuable insights.

The frontend is built with Tkinter, while the backend is connected to SQLite database. It would contain tables with recruitment information. The user can fetch details of a particular student by typing his/her name in the input field in the GUI. Operations that can be carried over by teachers module of the application:

1. Add value rows to the table
2. Delete information
3. Update information such as name and other fields that are allowed to be edited due to security concerns
4. Display information according to what the user wants to see. Such as:
 - a. All student details
 - b. Specific Student Details
 - c. All recruitment Details
 - d. Specific Student details

1.3 METHODOLOGY TO BE FOLLOWED

The project database is *SQLite* (tables – student_details & recruitment_details). Frontend is *Tkinter*. Data is entered via the tkinter UI and stores in the database. From here, the user can fetch details pertaining to a specific student, or all students at once. The user can also fetch details from the

recruitment table and view them in a structured manner.

REQUIREMENT SPECIFICATIONS

HARDWARE REQUIREMENTS:

Processor: Intel(R) Core(TM) i3-10110U CPU

Processor Speed: 2.59 GHz

RAM: 8 GB RAM

System type: 64 –bit operating system

Hard disk : 512 GB

SOFTWARE REQUIREMENTS:

Language: Python and Database

Compiler: Any python compiler

CHAPTER 2

FUNDAMENTALS OF PYTHON

2.1 INTRODUCTION TO PYTHON

Python is a commonly and extensively used general-purpose, high-level programming language. Guido van Rossum in 1991 was the founder of Python and was later developed by Python Software Foundation. It was primarily designed to emphasize on code readability, and its syntax allows programmers to express ideas in few lines of code. Python can be used for things like:

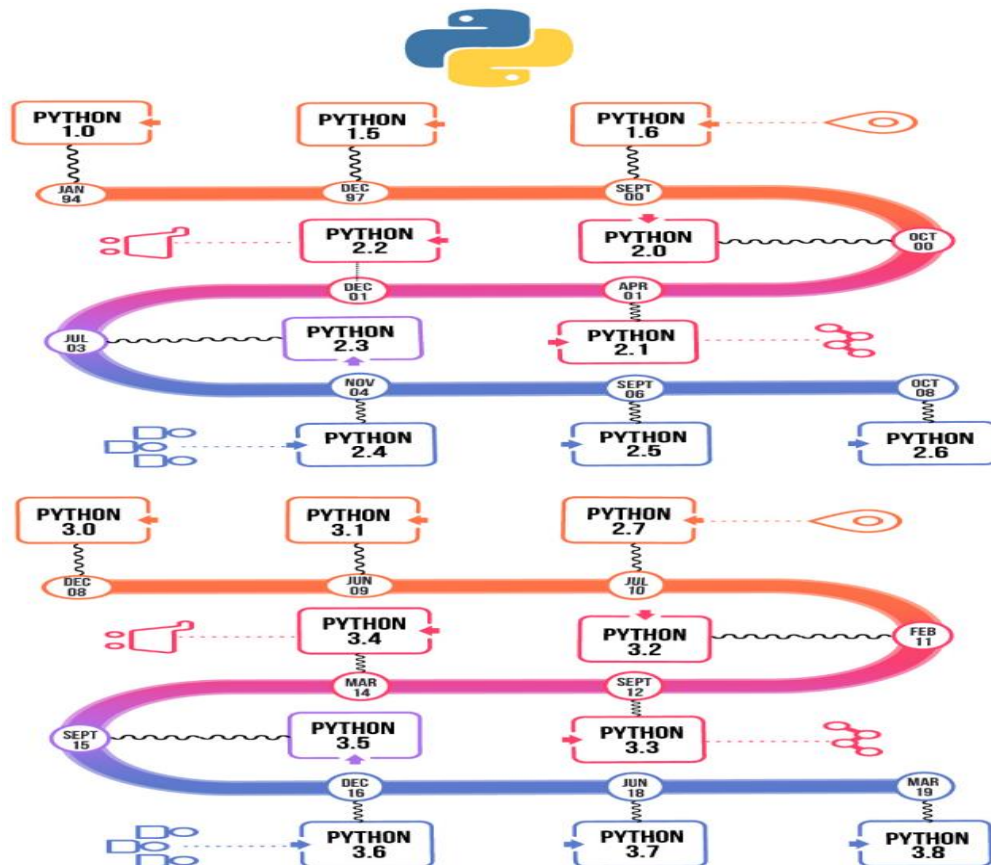


Figure 2.1: Different versions of Python over the years

2.2 ADVANTAGES OF PYTHON

Video provides a powerful way to help you prove your point. When you click Online Video, you can paste in the embed code for the video you want to add. You can also type a keyword to search online for the video that best fits your document.

To make your document look professionally produced, Word provides header, footer, cover page, and text box designs that complement each other. For example, you can add a matching cover page, header, and sidebar. Click Insert and then choose the elements you want from the different galleries.

Themes and styles also help keep your document coordinated. When you click Design and choose a new Theme, the pictures, charts, and SmartArt graphics change to match your new theme. When you apply styles, your headings change to match the new theme.

Save time in Word with new buttons that show up where you need them. To change the way a picture fits in your document, click it and a button for layout options appears next to it. When you work on a table, click where you want to add a row or a column, and then click the plus sign.

Reading is easier, too, in the new Reading view. You can collapse parts of the document and focus on the text you want. If you need to stop reading before you reach the end, Word remembers where you left off - even on another device.

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Reading is easier, too, in the new Reading view. You can collapse parts of the document and focus on the text you want. If you need to stop reading before you reach the end, Word remembers where you left off - even on another device.

CHAPTER 3

FUNDAMENTALS OF TKINTER

3.1 INTRODUCTION

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most are Python Python interfaces. for Qt

- wxPython
- Among applications for developing used widely are:
- Kivy
- Python used graphical all, Libraries in which the Tkinter available user less creating is GUI Some

3.2 WIDGETS

uses with The various controls the gives users

- MenuBars
- ComboBoxes widgets application by to provided to various interact GUI which
- RadioButtons application others. Tkinter like:
- Labels
- Buttons many
- CheckBoxes among

| WIDGETS | DESCRIPTION |
|---------|--|
| Random | one widgets CheckButton different allows buttons a the the to used take on but allows a and is text the and widget number menus application user to selected |
| Button | This different widget is select widget in types to widget or arrow image |

| | |
|-------------|---|
| | widget/frame |
| Canvas | This holds to is box widget an from layouts is kinds multiline to of the to the allows represent or from be used used as user list which widget scale |
| Entry | This widget any it |
| Frame | This used is the options of container. from as text widget select This user contains graphics a widget widget by and add from buttons the allows pictures slider fashion |
| SpinBox | This which an one of organizes orderly which user options |
| ComboBox | This toggle single allows like is given select display used used widget number can from used user |
| CheckButton | This to number provide options. |
| RadioButton | This create down to to is etc. |
| Scale | This values |
| Scrollbar | This the a value contents window/frame |
| Text | This interface |
| Menu | This used is to line entry in format to down similar scroll various edit any texts, widget users displays to widget It of draw a input, text of select to to option any of only a |

Table 1: Various widgets available in Tkinter

3.3 GEOMETRY MANAGERS

Video provides a powerful way to help you prove your point. When you click Online Video, you can paste in the embed code for the video you want to add. You can also type a keyword to search online for the video that best fits your document.

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Themes and styles also help keep your document coordinated. When you click Design and choose

a new Theme, the pictures, charts, and SmartArt graphics change to match your new theme. When you apply styles, your headings change to match the new theme.

CHAPTER 4

FUNDAMENTALS OF DBMS

4.1 INTRODUCTION

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4.2 CHARACTERISTICS OF A DBMS

Save time in Word with new buttons that show up where you need them. To change the way a picture fits in your document, click it and a button for layout options appears next to it. When you work on a table, click where you want to add a row or a column, and then click the plus sign.

Reading is easier, too, in the new Reading view. You can collapse parts of the document and focus on the text you want. If you need to stop reading before you reach the end, Word remembers where you left off - even on another device.

4.3 DATA MODEL

Video provides a powerful way to help you prove your point. When you click Online Video, you can paste in the embed code for the video you want to add. You can also type a keyword to search online for

the video that best fits your document.

To make your document look professionally produced, Word provides header, footer, cover page, and text box designs that complement each other. For example, you can add a matching cover page, header, and sidebar. Click Insert and then choose the elements you want from the different galleries.

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Reading is easier, too, in the new Reading view. You can collapse parts of the document and focus on the text you want. If you need to stop reading before you reach the end, Word remembers where you left off - even on another device.

CHAPTER 5

FUNDAMENTALS OF SQL

5.1 INTRODUCTION

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Save time in Word with new buttons that show up where you need them. To change the way a picture fits in your document, click it and a button for layout options appears next to it. When you work on a table, click where you want to add a row or a column, and then click the plus sign.

Reading is easier, too, in the new Reading view. You can collapse parts of the document and focus on the text you want. If you need to stop reading before you reach the end, Word remembers where you left off - even on another device.

CHAPTER 6

DESIGN

6.1 DATABASE STRUCTURE

The database is managed by SQLite.

Tables are –

1. student_details (stores student details – name, USN, phone number, department, semester)
2. recruitment_details (stores recruitment details – USN, company ID, company name, eligibility, round 1 status, round 2 status, round 3 status, round 4 status, round 5 status and salary)

in student_details, USN is primary key while name is primary key in recruitment details. This structure is made to be like this to ensure uniqueness in values in the tables.

6.3 FRONTEND DESIGN

The frontend is created by tkinter. It follows a minimal design with more focus given to the functionality.

CHAPTER 6

IMPLEMENTATION

7.1 ALGORITHM

Def connect():

```
# establish connection with the database
Conn = sqlite3.join('database.db')
Cur = conn.cursor()
# create 2 tables
Cur.execute("create table student_details ()")
Cur.execute("create table recruitment_details ()")
# close database connection
Call menu function
```

def menu():

```
# establish connection with database again
R1 = radiobutton
R2 = radiobutton
R3 = radiobutton
If R1:
    insertStudentDetails()
if R2
    insertRecruitmentDetails()
elif R3:
    queries()
```

def insertStudentDetails():

```
# establish connection with database
Usn = Entry()
sname = Entry()
sphone = Entry()
dept = Entry()
sem = Entry()
```

```
# get these values and add to the database
```

```
def insertRecruitmentDetails():
```

```
    # establish connection with database
```

```
    Usn = Entry()
```

```
    cid = Entry()
```

```
    company = Entry()
```

```
    eligibility = Entry()
```

```
    round 1 = Entry()
```

```
    round 2 = Entry()
```

```
    round 3 = Entry()
```

```
    round 4 = Entry()
```

```
    round 5 = Entry()
```

```
# get these values and add to the database
```

```
def queries():
```

```
    def displayAllStudentDetails():
```

```
        # fetch all student details from the database and display using the treeview widget
```

```
    def displaySpecificStudentDetails():
```

```
        name = Entry()
```

```
        # check against database if name entered exists in student_details table. If True, display  
        details using the treeview widget
```

```
    def displayAllRecruitmentDetails():
```

```
        # fetch all student details from the database recruitment details table and display using  
        the treeview widget
```

```
    def displaySpecificRecruitmentDetails():
```

```
        usn = Entry()
```

```
        # check against database if name entered exists in recruitment_details table. If True,  
        display details using the treeview widget
```

RESULTS

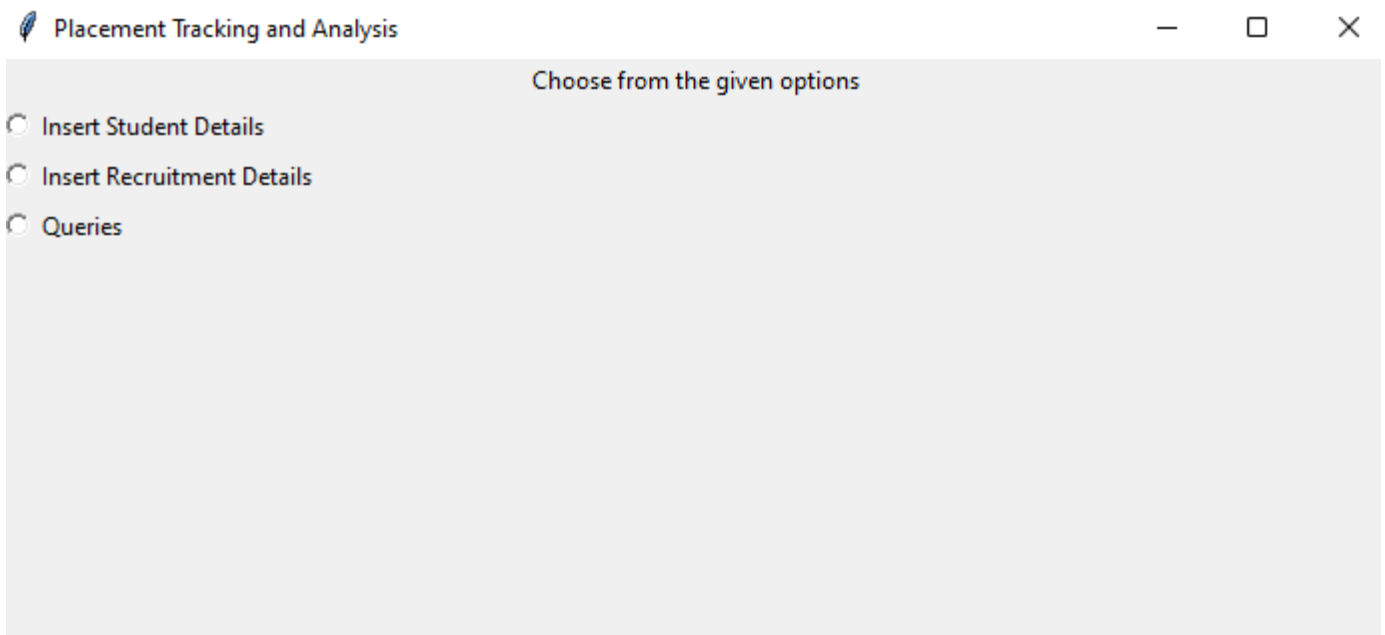



Fig 8.1 Menu of the code

The screenshot shows the same window as Fig 8.1, but now the "Insert Student Details" option is selected, and a form is displayed. The form has a light gray background and contains the text "Choose from the given options" at the top. Below this text are three radio button options: "Insert Student Details", "Insert Recruitment Details", and "Queries". The "Insert Student Details" option is selected. Below the options are five input fields with labels: "student name", "usn", "Phone number", "department", and "semester". At the bottom of the form are two buttons: "Submit Student Details" and "close".

Fig 8.2 Entering student details. This is how to enter a student's details into the database.

| | sname | usn | sphone | department | semester |
|---|---------|------------|------------|------------|----------|
| | Filter | Filter | Filter | Filter | Filter |
| 1 | pranav | 1nh19cs133 | 9113602949 | cse | 5 |
| 2 | karthik | 1nh19cs738 | 3423442349 | cse | 7 |
| 3 | vatsan | 1nh19cs739 | 9113604111 | ise | 8 |
| 4 | hema | 1nh19cs100 | 342342349 | ece | 6 |
| 5 | pragya | 1nh19cs131 | 8296414084 | cse | 5 |

Fig 8.3 Data entered previously, is added to the database student_details

 Placement Tracking and Analysis

Choose from the given options

☐ Insert Student Details
 ☒ Insert Recruitment Details
 ☐ Queries

USN

Company ID

Company

Eligibility

Round 1

Round 2

Round 3

Round 4

Round 5

Salary

Submit Recruitment Details

close

Fig 8.3 Data entered previously, is added to the database student_details

| | usn | cid | company | eligibility | round_1 | round_2 | round_3 | round_4 | round_5 | salary |
|----|---------------|--------|-------------|-------------|---------|---------|---------|---------|---------|---------|
| | Filter | Filter | Filter | Filter | Filter | Filter | Filter | Filter | Filter | Filter |
| 1 | 1nh19cs133 | 1 | dynamo dat | 1 | 1 | 1 | 1 | 1 | 1 | 140000 |
| 2 | 1nh19cs739 | 2 | accenture | 1 | 1 | 1 | 1 | 1 | 1 | 100000 |
| 3 | 1nh19cs739 | 3 | capgemini | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 1nh19cs738 | 4 | adobe | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 5 | 1nh19cs133 | 4 | adobe | 1 | 1 | 1 | 1 | 11 | 1 | 100000 |
| 6 | 1nh19cs100 | 3 | capgemini | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 1nh19cs133 | 1 | dxs | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8 | 1nh19cs131 | 3 | capgemini | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 9 | 1nh19cs729 | 1 | dynamo data | 1 | 1 | 1 | 1 | 1 | 1 | 1200000 |
| 10 | jgghghgdus234 | 1 | skfidki | 1 | 1 | 1 | 1 | 11 | 1 | 10000 |
| 11 | 1nh19cs137 | 11 | vdfgdg | 1 | 1 | 1 | 1 | 1 | 1 | 100000 |

Fig 8.4 Recruitment details being entered

Placement Tracking and Analysis

Choose from the given options

☐ Insert Student Details
☐ Insert Recruitment Details
☒ Queries

☐ Show Students Details table
☐ Show Specific Student Details
☐ Show Recruitment Details
☐ Show Specific Recruitment Details table

close

Fig 8.5 Additional Queries

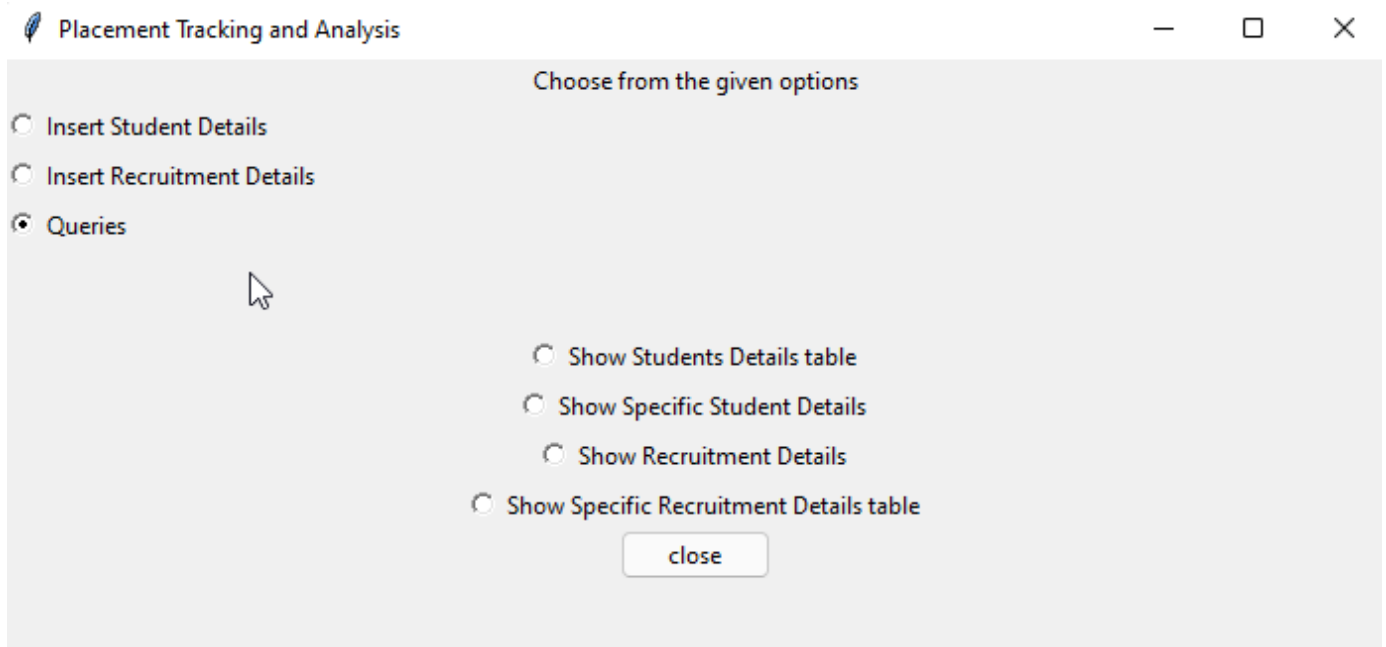


Fig 8.5 Additional Queries

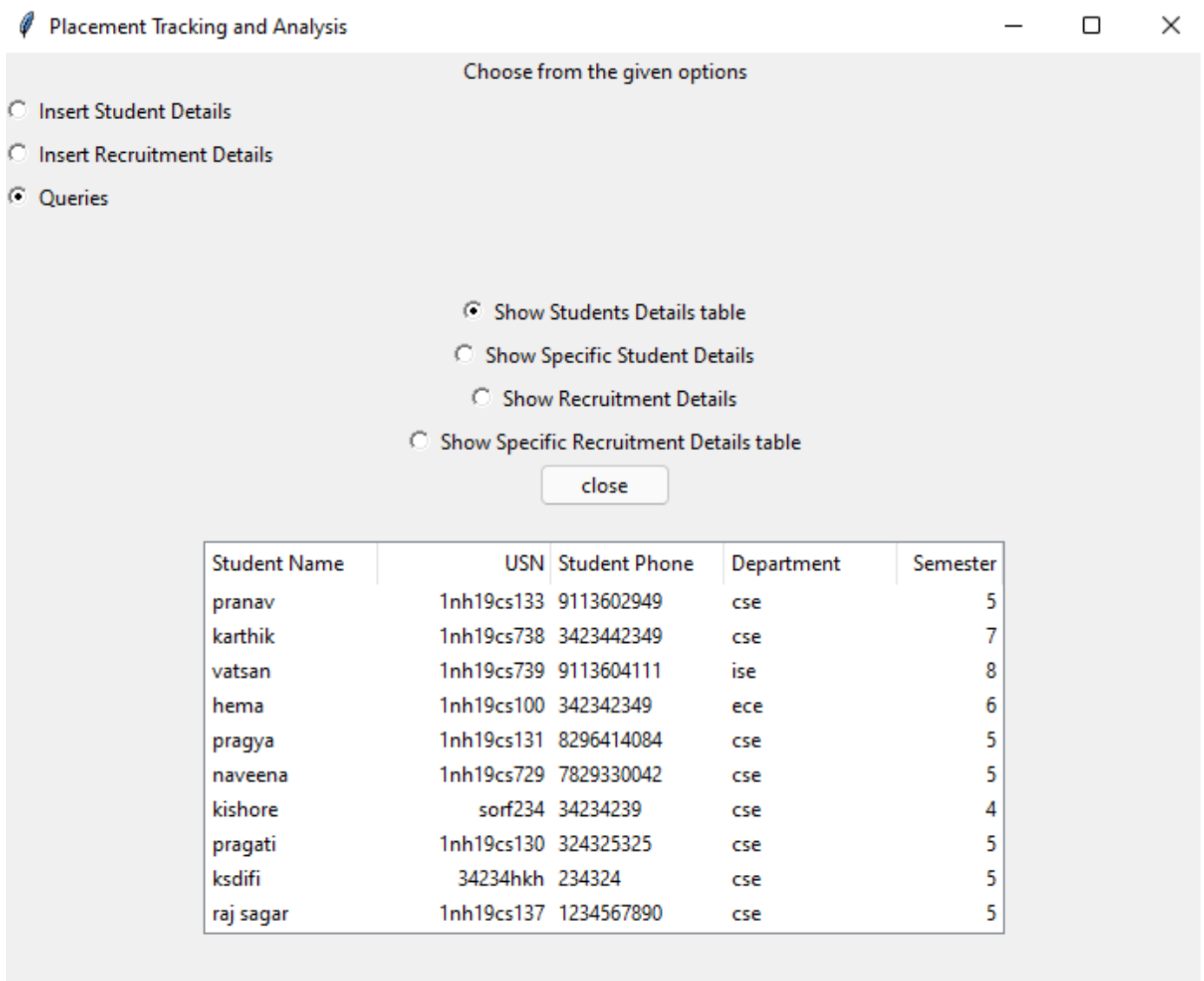


Fig 8.6 Show Student Details table. This uses the treeView widget in tkinter to fetch values in the sqlite table and display those in a table format to the user.

Placement Tracking and Analysis

Choose from the given options

☐ Insert Student Details

☐ Insert Recruitment Details

☒ Queries

☐ Show Students Details table

☒ Show Specific Student Details

☐ Show Recruitment Details

☐ Show Specific Recruitment Details table

Enter student name

pranav

Submit

Fig 8.7 Enter name of student and obtain his/her details in the screen in the form of a table. In this example, the student we want to view details of is Pranav.

Placement Tracking and Analysis

Choose from the given options

☐ Insert Student Details

☐ Insert Recruitment Details

☒ Queries

☐ Show Students Details table

☒ Show Specific Student Details

☐ Show Recruitment Details

☐ Show Specific Recruitment Details table

Enter student name

karthik

Submit

Fig 8.8 Enter name of student and obtain his/her details in the screen in the form of a table. In this example, the student we want to view details of is Pranav.

Choose from the given options

☐ Insert Student Details

☐ Insert Recruitment Details

☒ Queries

☐ Show Students Details table

☒ Show Specific Student Details

☐ Show Recruitment Details

☐ Show Specific Recruitment Details table

| label | name | usn | phonen | departr | semeste |
|-------|--------|---------|---------|---------|---------|
| | pranav | 1nh19cs | 9113602 | cse | 5 |

pranav

Submit

Fig 8.9 This is the resultant student detail. Pranav's details are fetched and displayed in a tabular format using the treeview widget.

Choose from the given options

☐ Insert Student Details

☐ Insert Recruitment Details

☒ Queries

☐ Show Students Details table

☒ Show Specific Student Details

☐ Show Recruitment Details

☐ Show Specific Recruitment Details table

| label | name | usn | phonen | departr | semeste |
|-------|---------|---------|---------|---------|---------|
| | karthik | 1nh19cs | 3423442 | cse | 7 |

karthik

Submit

Fig 8.10 This is the resultant student detail. Pranav's details are fetched and displayed in a tabular format using the treeview widget.

Choose from the given options

- ☐ Insert Student Details
☐ Insert Recruitment Details
☒ Queries

- ☐ Show Students Details table
☐ Show Specific Student Details
☒ Show Recruitment Details
☐ Show Specific Recruitment Details table

close

| USN | CID | Company | Eligibility | Eligibility | round 2 | round 3 | round 4 | round 5 | salary |
|--------------|-----|-----------|-------------|-------------|---------|---------|---------|---------|---------|
| 1nh19cs133 | 1 | dynamo c | 1 | 1 | 1 | 1 | 1 | 1 | 140000 |
| 1nh19cs739 | 2 | accenture | 1 | 1 | 1 | 1 | 1 | 1 | 100000 |
| 1nh19cs739 | 3 | capgemin | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1nh19cs738 | 4 | adobe | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1nh19cs133 | 4 | adobe | 1 | 1 | 1 | 1 | 11 | 1 | 100000 |
| 1nh19cs100 | 3 | capgemin | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1nh19cs133 | 1 | dxs | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1nh19cs131 | 3 | capgemin | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1nh19cs729 | 1 | dynamo c | 1 | 1 | 1 | 1 | 1 | 1 | 1200000 |
| jgjghjgdus23 | 1 | skfidki | 1 | 1 | 1 | 1 | 11 | 1 | 10000 |

Fig 8.11 This shows the recruitment details of every student. Every student is identified by their unique number (USN). This is the primary key of the table.

Placement Tracking and Analysis

Choose from the given options

☐ Insert Student Details

☐ Insert Recruitment Details

☒ Queries

☐ Show Students Details table

☐ Show Specific Student Details

☐ Show Recruitment Details

☒ Show Specific Recruitment Details table

Enter student usn

pranav

Submit

Fig 8.12 This is a functionality where entering the usn of the student will display his/her recruitment details. In this case – it is 1NH19CS133.

Placement Tracking and Analysis

Choose from the given options

☐ Insert Student Details

☐ Insert Recruitment Details

☒ Queries

☐ Show Students Details table

☐ Show Specific Student Details

☐ Show Recruitment Details

☒ Show Specific Recruitment Details table

Enter student usn

1nh19cs133

Submit

Fig 8.13 This is a functionality where entering the usn of the student will display his/her recruitment details. In this case – it is 1NH19CS133.

Choose from the given options

- ☐ Insert Student Details
☐ Insert Recruitment Details
☒ Queries

- ☐ Show Students Details table
☐ Show Specific Student Details
☐ Show Recruitment Details

☒ Show Specific Recruitment Details table

| I | usn | cid | company | eligibilit | round 1 | round 2 | round 3 | round 4 | round 5 | salar |
|---|------------|-----|------------|------------|---------|---------|---------|---------|---------|-------|
| | 1nh19cs133 | 1 | dynamo dat | 1 | 1 | 1 | 1 | 1 | 1 | 1400 |
| | 1nh19cs133 | 4 | adobe | 1 | 1 | 1 | 1 | 11 | 1 | 1000 |
| | 1nh19cs133 | 1 | dxc | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

1nh19cs133

Submit

Fig 8.14 This displays 1NH19CS133 recruitment details.

CHAPTER 9

CONCLUSION

This project is aimed to help teachers help the students as efficiently as possible since they will know the student's weak points. Each round's status shows if the student has made it through that round. If he/she hasn't, the teacher can check this and help the student get better at that round.

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