Inmate Management System

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Introduction - Capital Punishment in Texas

- From the year 1976, when the death penalty was reinstated, texas leads the nation with the most inmates that has been executed since then.

- Since 1976, 1543 prisoners have been executed

- 573 of those inmates that received capital punishment were from Texas.

The Overall Objective

- The overall goal of this application is to manage the large amount of data from the dataset, so that the user can easily sort and search through it. Essentially making a database library of the inmates who have received capital punishment .

Application Functionality -Menu

- The user will be able to choose from the options on the main menu and functionality will work based on input.

```
--------------------------
         Inmate Management
--------------------------
1. Add New Inmate
2. Delete Inmate
3. Search Inmate
4. Display all Inmates
5. Web search
0. exit
 Enter Your Choice :
```

Application Functionality
- Add

- The user will be able to add information into the existing file for the database into list if '1' is pressed in the main menu.

```
Enter Inmate's execution number
1234
Enter Inmate's Last name
Doe
Enter Inmate's First name
Jane
Enter Inmate's TDCJ Number
12345
Enter Inmate's Age
23
Enter Date of Execution
02/02/1995
Enter Inmate's Race
White
Enter county
Dallas
```

```
6,Morin,Stephen,712,34,03/13/1985,White,Jefferson
5,Skillern,Doyle,518,49,01/16/1985,White,Lubbock
4,Barefoot,Thomas,621,39,10/30/1984,White,Bell
3,O'Bryan,Ronald,529,39,03/31/1984,White,Harris
2,Autry,James,670,29,03/14/1984,White,Jefferson
1,"Brooks Jr.",Charlie,592,40,12/07/1982,Black,Tarrant


1234,Doe,Jane,12345,23,02/02/1995,White,Dallas
```

Application Functionality
-   Delete

-   The user will be prompted to enter the last and first name of the inmate and if found the record will be deleted from the list..


```
Enter Your Choice : 2
Enter last name to delete Record.
Barefoot
enter first name to delete record.
Thomas
record successfully deleted
-------------------------------
```

Application Functionality
- Search

- The user will be prompted to enter the last and first name of the inmate and if found the record will be displayed .

```
Enter last name of the inmate to be searched.
Barefoot
Enter first name of the inmate to be searched.
Thomas
Found!

4,Barefoot,Thomas,621,39,10/30/1984,White,Bell
```

Application Functionality
-   Display

-   The entire List of inmates will be shown if option 4 is selected.

```
291,Baltazar,John,999257,30,01/15/2003,Hispanic,Nueces
290,Gallamore,Samuel,999090,31,01/14/2003,White,Comal
289,Collier,James,999190,55,12/11/2002,White,Wichita
288,Rojas,Leonard,999194,52,12/04/2002,Hispanic,Johnson
287,Chappell,William,960,66,11/20/2002,White,Tarrant
286,Ogan,Craig,979,47,11/19/2002,White,Harris
285,Powell,James,999001,56,10/01/2002,White,Newton
284,King,Calvin,999152,48,09/25/2002,Black,Jefferson
283,Mays,Rex,999172,42,09/24/2002,White,Harris
282,Shamburger,Ron,999167,30,09/18/2002,White,Brazos
281,Patrick,Jessie,975,44,09/17/2002,White,Dallas
280,Walker,Tony,999082,36,09/10/2002,Black,Morris
279,Patterson,Toronto,999178,24,08/28/2002,Black,Dallas
278,Etheridge,Gary,986,38,08/20/2002,White,Brazoria
```

Application Functionality
-   Web search

-   If option 5 is selected then the website for the original database will be pulled up.


```
system("cmd/c start https://www.tdcj.texas.gov/death_row/dr_executed_offenders.html");
```

Data Structures

List or sequence data structure it made it easy to retrieve data from the files and search through it.

Class- I used classes to store data for the files

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