

CS 340 Portfolio Assignment

T.N.F.T. Police App

<http://flip1.engr.oregonstate.edu:10101/>

In Collaboration with:

Dylan Karambut & Jesse Piccione

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Executive Summary

Our application, T.N.F.T. is an application that has the functionality of helping the police department manage the reports of a crime in a city. While the police might have the application, this application will have a database that will be more optimized for the user, in addition to, it is better in both User Interface and User Experience.

This application will have the tabs of webpage that includes of:

- Officers - This is where the data of the officers will be.
- Reports - This is where the data between the officers and the civilians will be. This will store reports of an accident or other scene.
- Criminals - This is where the criminal record or history of a suspected person will be.
- ReportFines - This is a composite database between the report and the fine.
- Fines - This will give the fines of an action based on the criminals.

With this improved database, the user will be able to work more efficiently on this task, especially because this application has relationships between tables in the database that make it more connected. In addition to that, our application got peer review feedback that makes this application even better. Thank you to our peer reviewer, our application got improvement for the usability in the database that mostly involves the naming of each table as well as the relationships between each tables. Lastly, our application got feedback for the application itself that helps us to deliver better User Interface as well as User Experience.

At this point, our application has great deliveries in terms of our application functionality both the frontend and backend. The database of this application is proven to be working as intended and the efficiency of this application is in our expectation. As for the web page, our peer review has been mostly positive with our results.

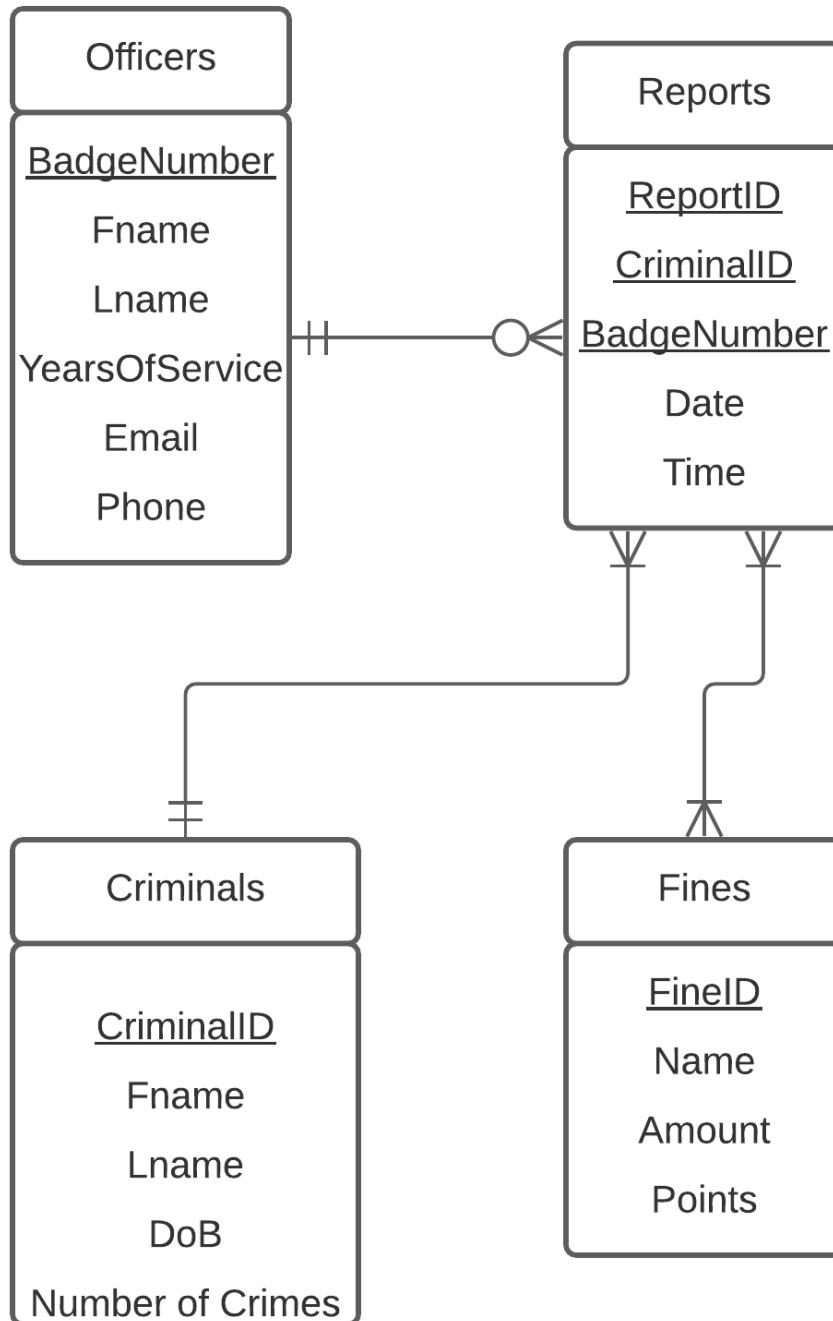
Database Outline

- **Officers** - Information where it shows the data of the officers.
 - **BadgeNumber:** int, unique, not null, PK
 - **Fname:** varchar(255), not null
 - **Lname:** varchar(255), not null
 - **YearsOfService:** short, not null
 - **Email:** varchar(255), not null
 - **Phone:** varchar(10), not null
 - **Relationship:** A 0:m relationship between officer and report
- **Reports** - Data where it will store data of the report of an incident between the officers and the civilians.
 - **ReportID:** int, not null, pk
 - **CriminalID:** int, not null, fk. FK to Criminals(CriminalID)
 - **BadgeNumber:** int, not null, fk. FK to Officers(BadgeNumber)
 - **Date:** Date, not null (MM/DD/YYYY)
 - **Time:** Time, not null (24 hours time format)
 - **Relationship:** A 1:m relationship between report and officer
 - **Relationship:** A 1:m relationship between criminal and report
 - **Relationship:** A M:N relationship between fine and report
- **Criminals** - Gives criminal record or history of the suspected persons.
 - **CriminalID:** int, auto_increment, not null, unique, pk
 - **Fname:** varchar(255), not null
 - **Lname:** varchar(255), not null

- **DoB:** Date, not null
- **NumberOfCrimes:** (Since birth), varchar(255), notnull
- **Relationship:** A 1:m relationship between criminal and report
- **ReportFines** - Composite table for M:N relationship between report and fine.
 - **ReportID:** int, not null, fk. FK to Reports(ReportID)
 - **FineID:** int, not null, fk. FK to Fines(FineID)
- **Fines** - Shows the details of a fine for the suspected persons.
 - **FineID:** int, auto_increment, pk
 - **Name:** varchar(255), not null
 - **Amount:** int, not null (in US\$)
 - **Points:** short, not null
 - **Relationship:** A M:N relationship between fine and report

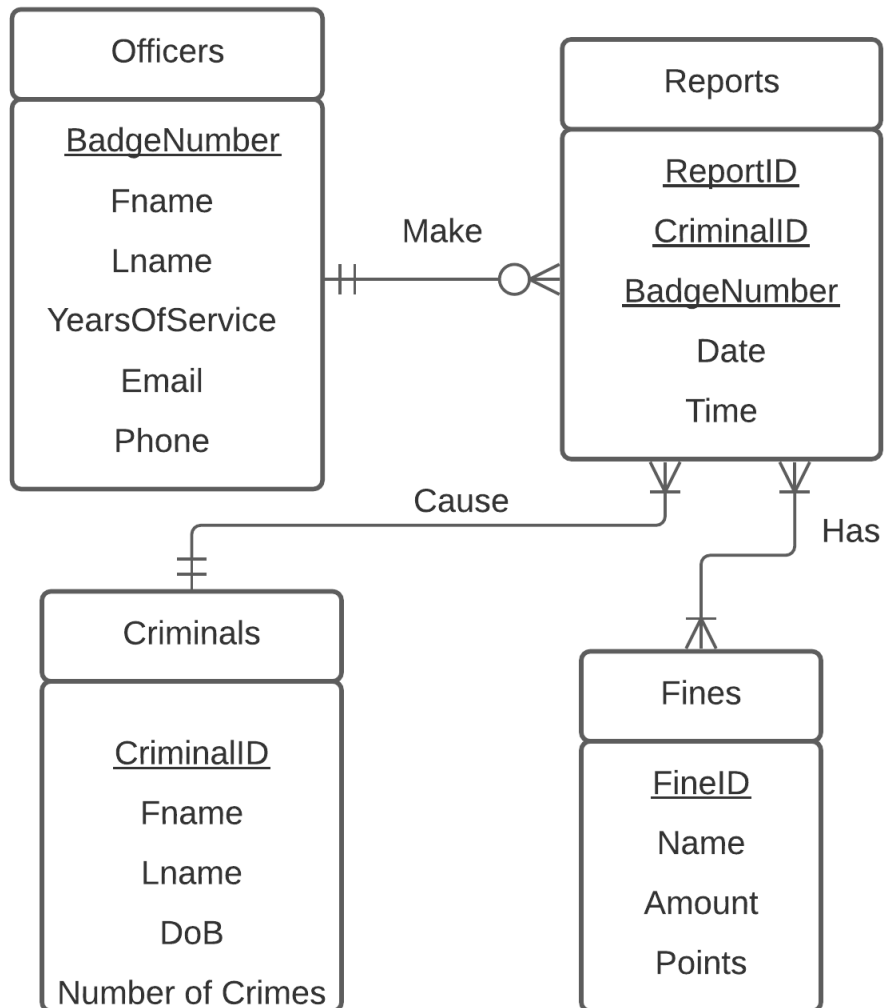
ER Diagram

ER Diagram



Schema

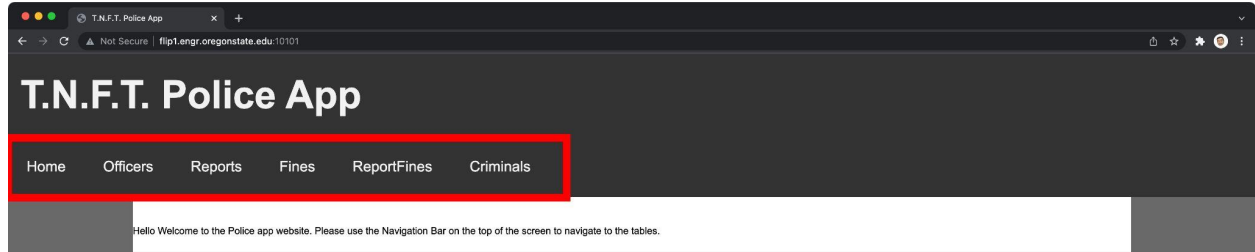
Schema



UI Screenshot with Informative Title

Home Page

Header - Will redirect to another page

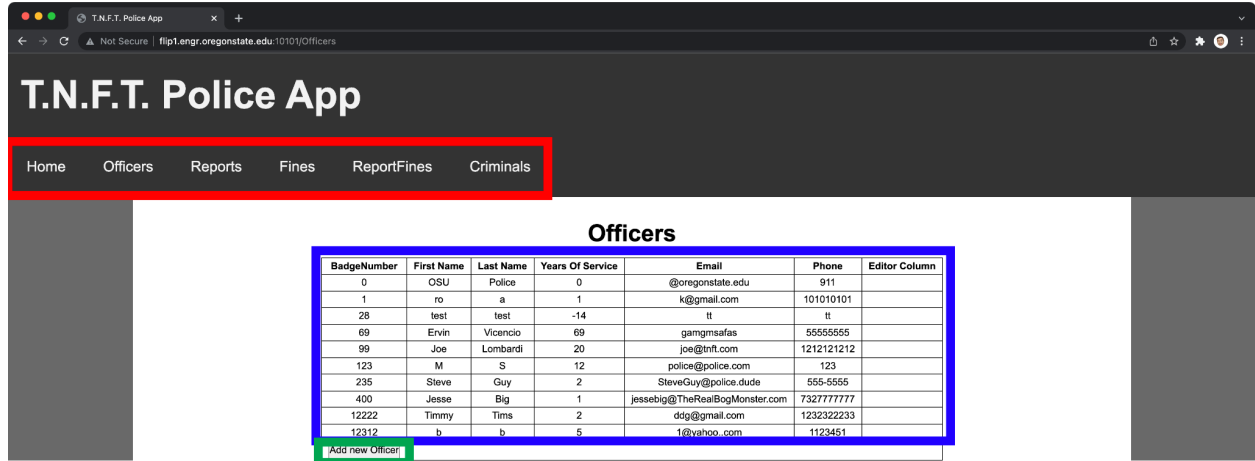


Officers Page

Header - Will redirect to another page

Read from the Database of Officers Table

Create new data inside of Officers Table



BadgeNumber	First Name	Last Name	Years Of Service	Email	Phone	Editor Column
0	OSU	Police	0	@oregonstate.edu	911	
1	ro	a	1	k@gmail.com	101010101	
28	test	test	-14	tt	tt	
69	Ervin	Vicencio	69	garngmsafas	55555555	
99	Joe	Lombardi	20	joe@tnft.com	1212121212	
123	M	S	12	police@police.com	123	
235	Steve	Guy	2	SteveGuy@police.dude	555-5555	
400	Jesse	Big	1	jessebig@TheRealBogMonster.com	7327777777	
12222	Timmy	Tims	2	ddg@gmail.com	1232322233	
12312	b	b	5	1@yahoo.com	1123451	

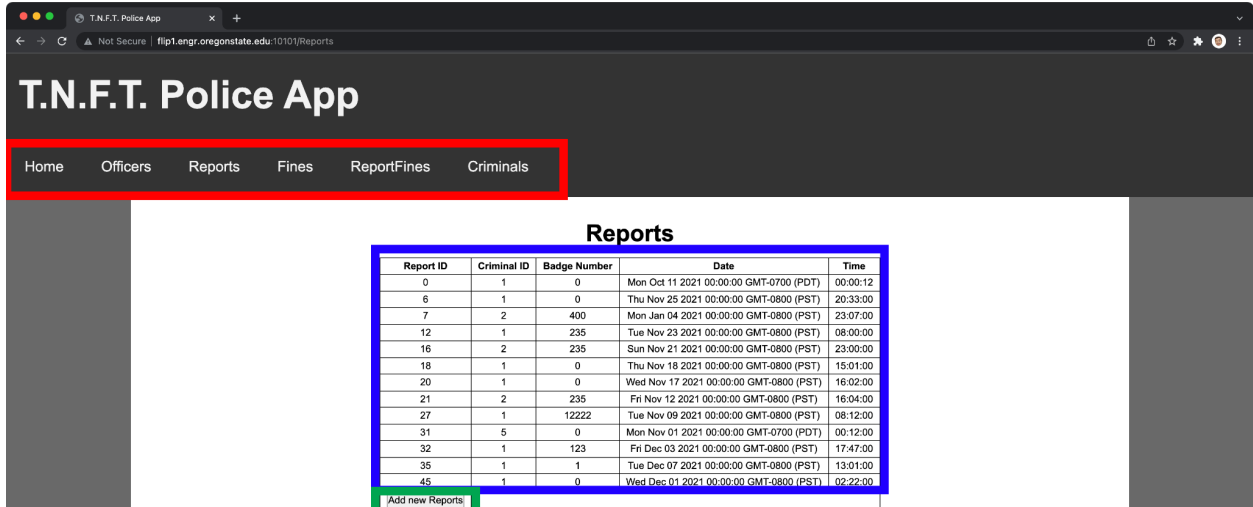
Add new Officer!

Reports Page

Header - Will redirect to another page

Read from the Database of Reports Table

Create new data inside of Reports Table



Report ID	Criminal ID	Badge Number	Date	Time
0	1	0	Mon Oct 11 2021 00:00:00 GMT-0700 (PDT)	00:00:12
6	1	0	Thu Nov 25 2021 00:00:00 GMT-0800 (PST)	20:33:00
7	2	400	Mon Jan 04 2021 00:00:00 GMT-0800 (PST)	23:07:00
12	1	235	Tue Nov 23 2021 00:00:00 GMT-0800 (PST)	08:00:00
16	2	235	Sun Nov 21 2021 00:00:00 GMT-0800 (PST)	23:00:00
18	1	0	Thu Nov 18 2021 00:00:00 GMT-0800 (PST)	15:01:00
20	1	0	Wed Nov 17 2021 00:00:00 GMT-0800 (PST)	16:02:00
21	2	235	Fri Nov 12 2021 00:00:00 GMT-0800 (PST)	16:04:00
27	1	12222	Tue Nov 09 2021 00:00:00 GMT-0800 (PST)	08:12:00
31	5	0	Mon Nov 01 2021 00:00:00 GMT-0700 (PDT)	00:12:00
32	1	123	Fri Dec 03 2021 00:00:00 GMT-0800 (PST)	17:47:00
35	1	1	Tue Dec 07 2021 00:00:00 GMT-0800 (PST)	13:01:00
45	1	0	Wed Dec 01 2021 00:00:00 GMT-0800 (PST)	02:22:00

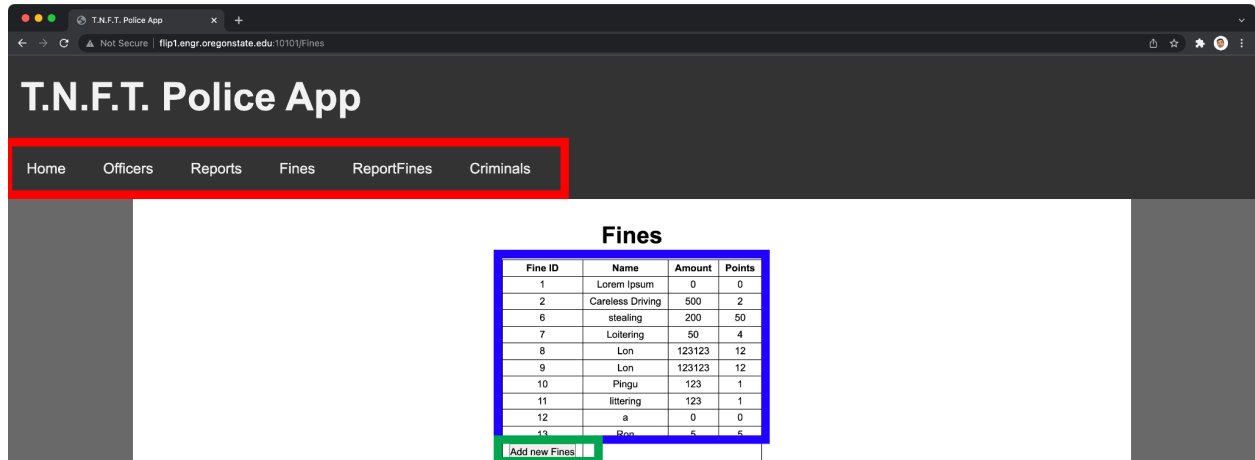
Add new Reports

Fines Page

Header - Will redirect to another page

Read from the Database of the Fines Table

Create new data inside of Fines Table



ReportFines Page

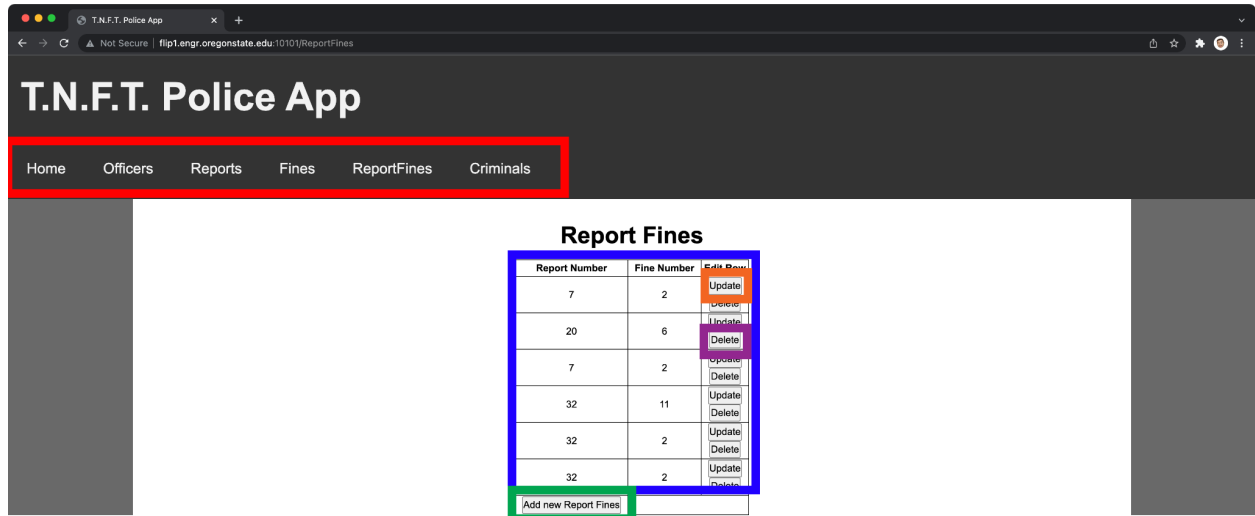
Header - Will redirect to another page

Read from the Database of the ReportFines Table

Create new data inside of ReportFines Table

Update existing data inside of ReportFines Table

Delete existing data inside of ReportFines Table



Criminals Page

Header - Will redirect to another page

Read from the Database of Criminals Table

Create new data inside of Fines Table

T.N.F.T. Police App

Home Officers Reports Fines ReportFines Criminals

Criminals

CriminalID	First Name	Last Name	Date of Birth	NumberOfCrimes
1	Benny	Beaver	0000-00-00	0
2	Big	Chungus	Wed Nov 24 2021 00:00:00 GMT-0800 (PST)	7
3	burglar	man	Tue Jun 01 1982 00:00:00 GMT-0700 (PDT)	40000
4	Sammy	Snakes	Mon Nov 22 2021 00:00:00 GMT-0800 (PST)	6
5	roger	ngu	Wed Sep 01 1199 00:00:00 GMT-0700 (PDT)	3
6	M	S	Thu Dec 02 2021 00:00:00 GMT-0800 (PST)	-1
7	N	S	Mon Dec 06 2021 00:00:00 GMT-0800 (PST)	0
8	O	S	Fri Dec 03 2021 00:00:00 GMT-0800 (PST)	12
9	Stewie	Coo	Mon Feb 07 2005 00:00:00 GMT-0800 (PST)	5
10	ROs	a	Sat Dec 18 2021 00:00:00 GMT-0800 (PST)	1
11	1	a	Thu Dec 09 2021 00:00:00 GMT-0800 (PST)	5
12	Naraka	New World	Sun Oct 29 2008 00:00:00 GMT-0700 (PDT)	1
13	test	test	Wed Dec 08 2021 00:00:00 GMT-0800 (PST)	0

Add new Criminals