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.

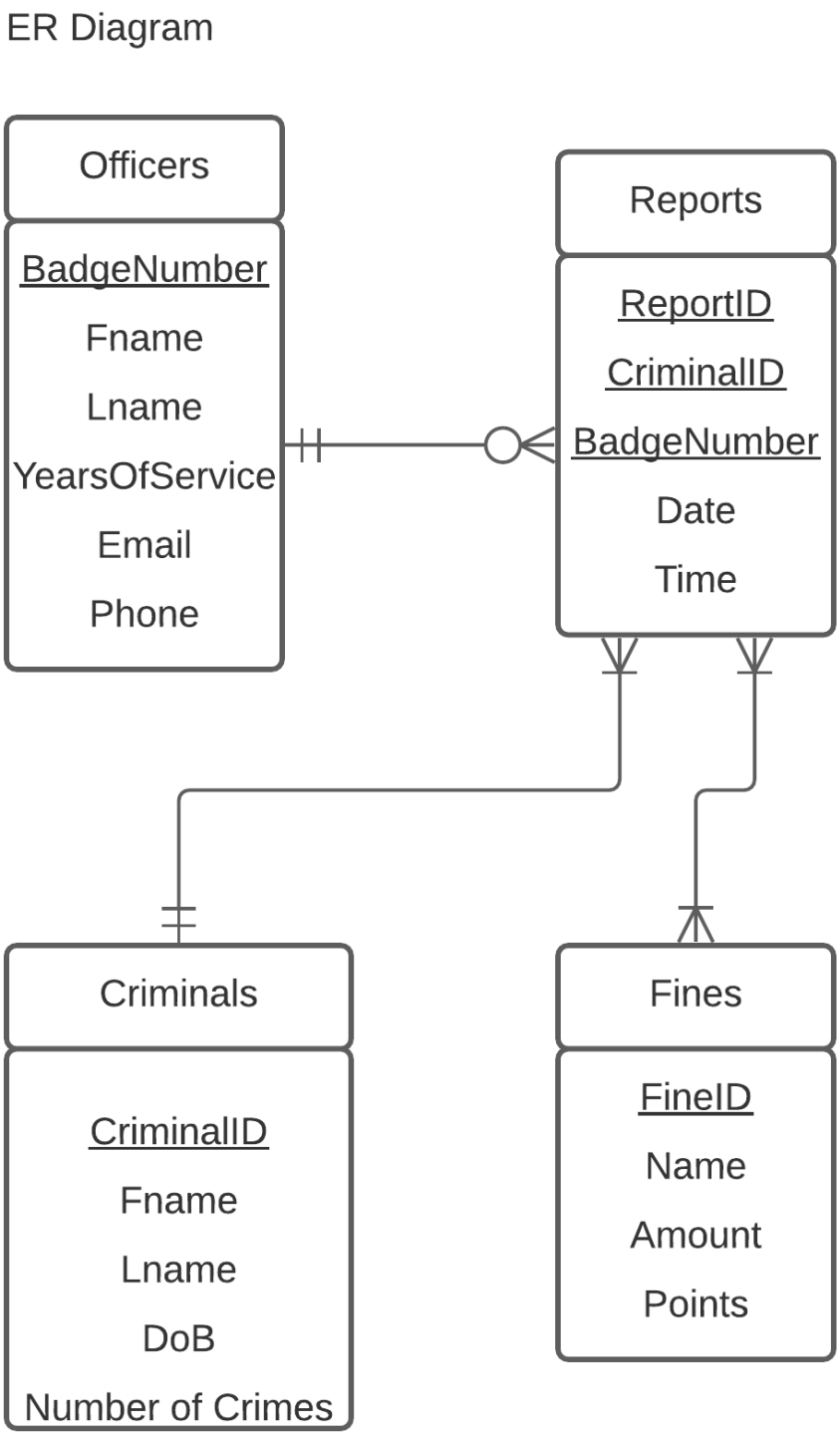
At this point, our application has great deliveries in terms of our application functionality both the frontend and backend. The database of this application is proven to be working as intended and the efficiency of this application is in our expectation. As for the web page, our peer review has been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

Database Outline

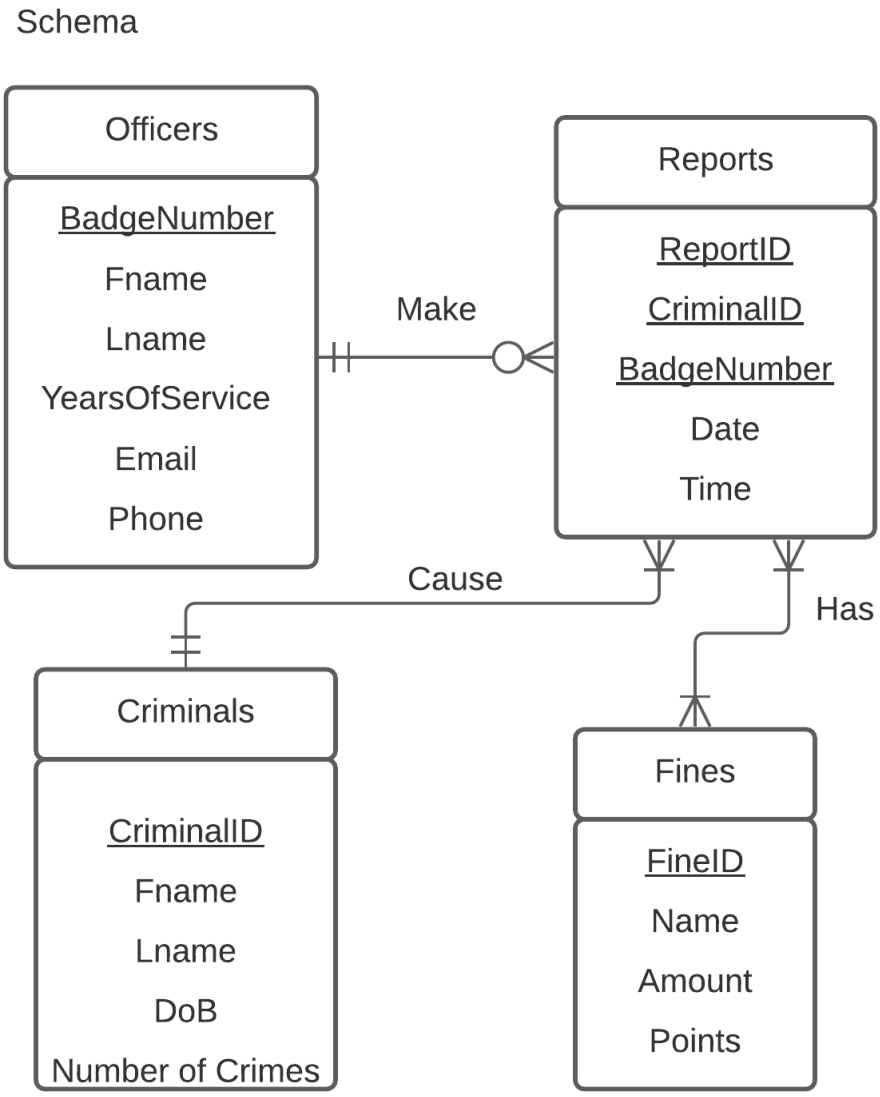
- **Officers -** Information where it shows the data of the officers.
    - **BadgeNumber:** int, unique, not null, PK
    - **Fname:** varchar(255), not null
    - **Lname:** varchar(255), not null
    - **YearsOfService:** short, not null
    - **Email:** varchar(255), not null
    - **Phone:** varchar(10), 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
Officers
BadgeNumber
Fname
Lname
YearsOfService
Email
Phone
Reports
ReportID
CriminalID
BadgeNumber
Date
Time
Criminals
CriminalID
Fname
Lname
DoB
Number of Crimes
Fines
FineID
Name
Amount
Points

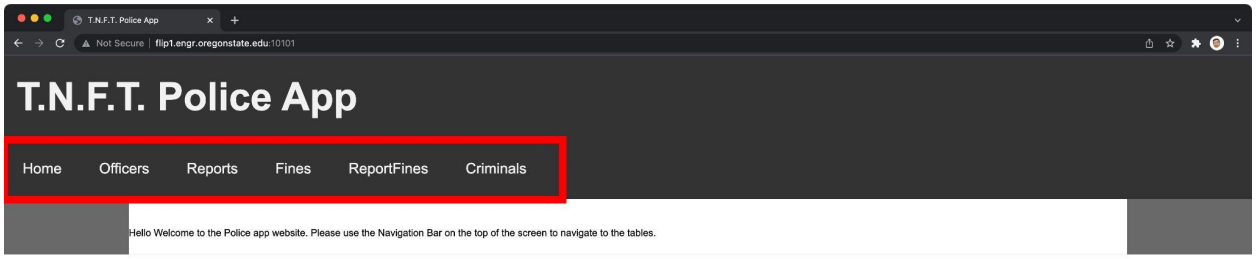
Schema


Schema
Officers
BadgeNumber
Fname
Lname
YearsOfService
Email
Phone
Make
Reports
ReportID
CriminalID
BadgeNumber
Date
Time
Cause
Has
Criminals
CriminalID
Fname
Lname
DoB
Number of Crimes
Fines
FineID
Name
Amount
Points

UI Screenshot with Informative Title

Home Page

Header - Will redirect to another page



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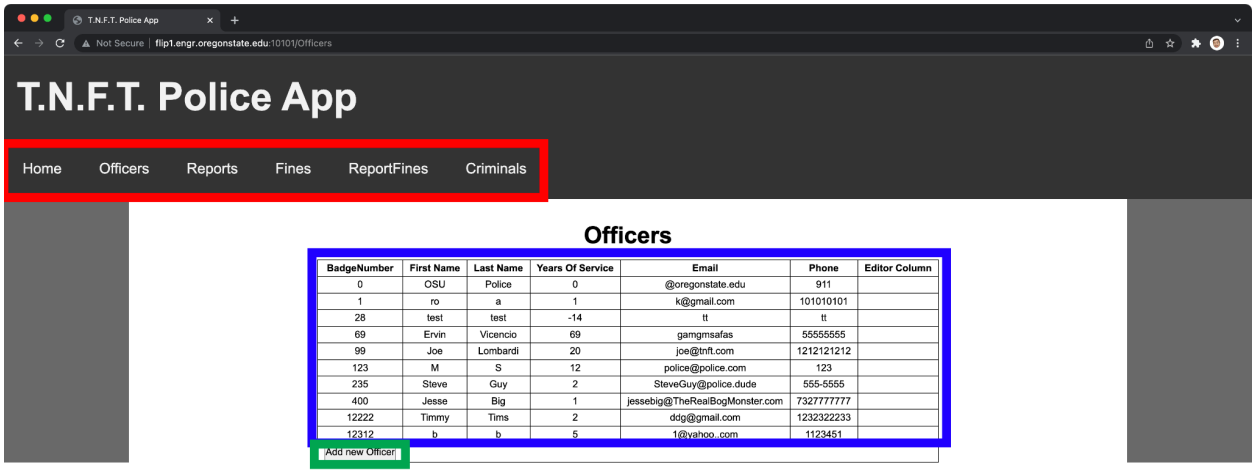
Officers Page

Header - Will redirect to another page

Read from the Database of Officers Table

Create new data inside of Officers Table



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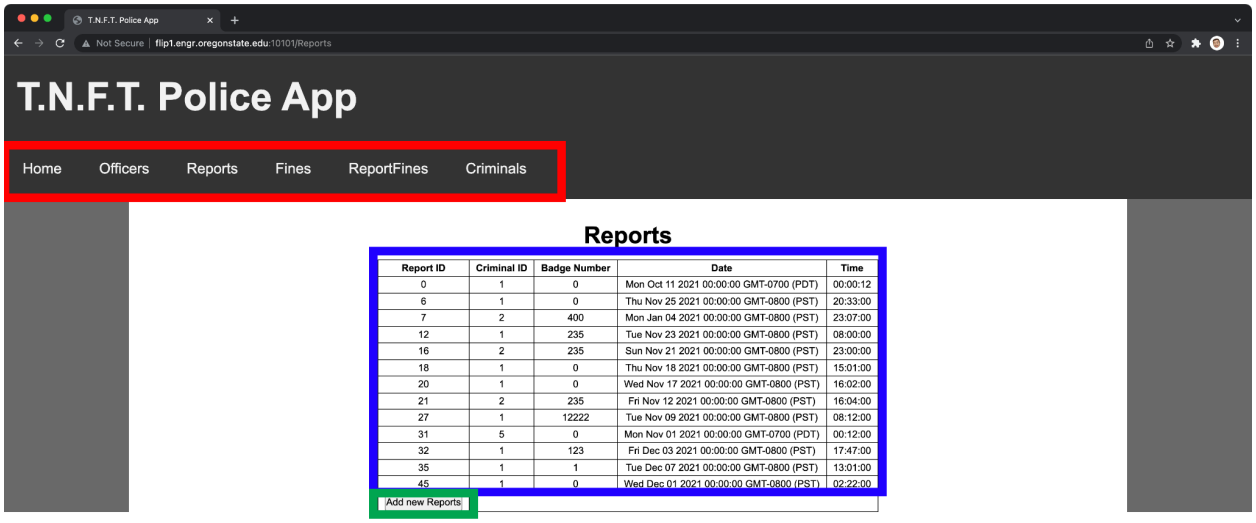
Reports Page

Header - Will redirect to another page

Read from the Database of Reports Table

Create new data inside of Reports Table



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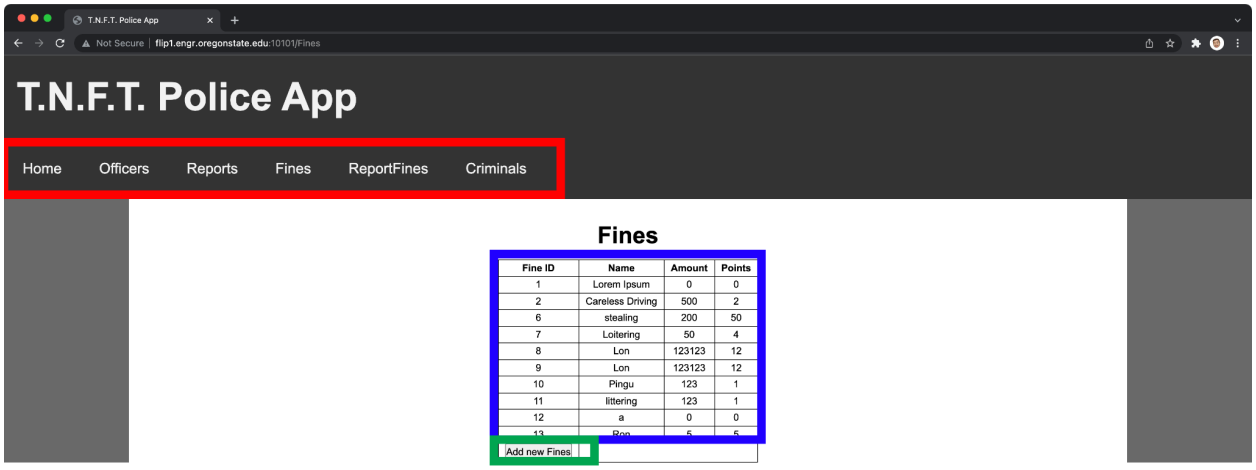
Fines Page
Header - Will redirect to another page
Read from the Database of the Fines Table
Create new data inside of Fines Table



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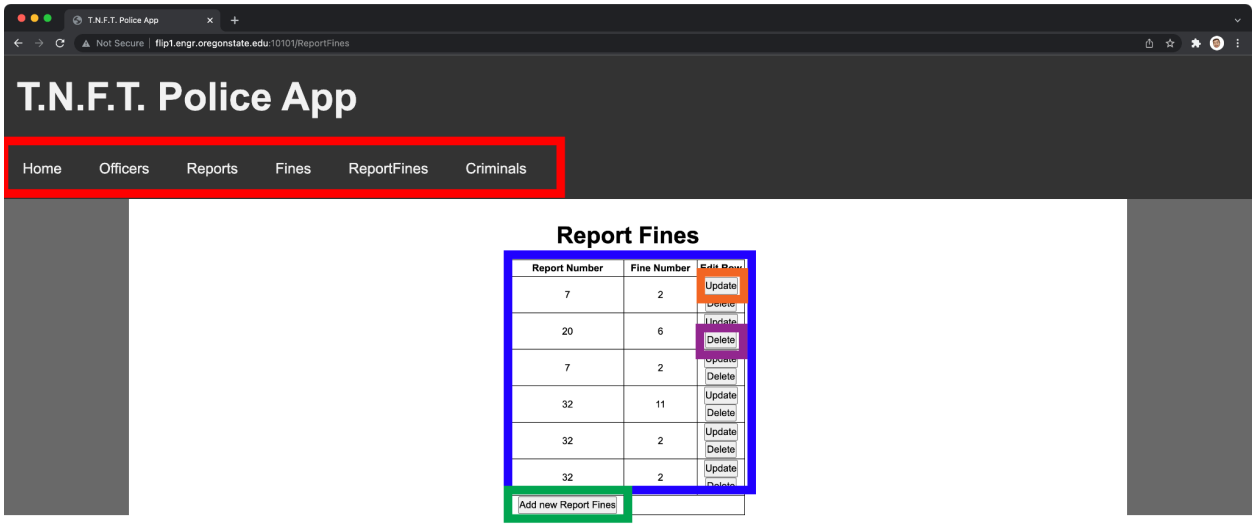
ReportFines Page
Header - Will redirect to another page
Read from the Database of the ReportFines Table
Create new data inside of ReportFines Table
Update existing data inside of ReportFines Table
Delete existing data inside of ReportFines Table



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Criminals Page

Header - Will redirect to another page

Read from the Database of Criminals Table

Create new data inside of Fines Table