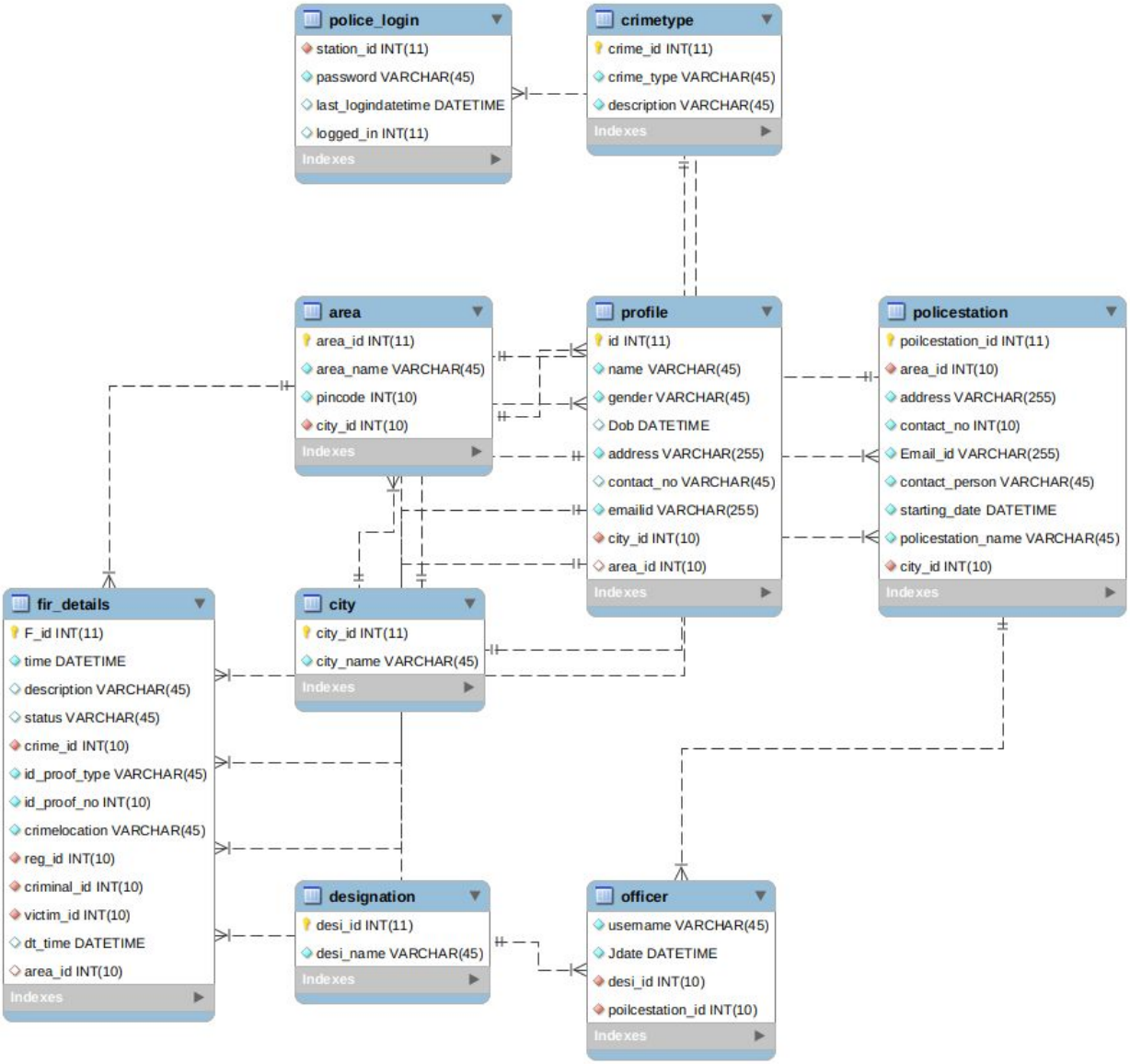
FIR MANAGEMENT SYSTEM

INTRODUCTION

This project aims to present a database model coupled with an intuitive interface with the objective of facilitating the task of registering, revoking FIRs and querying FIR data for the purpose of data analysis.

DATABASE DESIGN

The following page shows the Entity-Relationship diagram on which the database is modeled.



THE INTERFACE

LOGIN FACILITY FOR POLICE STATIONS

Each police station will have pre-assigned login credentials which will enable them to access the platform and query the database. Each police login will have the option of registering persons known to the platform - convicts, suspects, victims and reporters - and each is associated with a unique ID.

QUERY INTERFACE

For the purpose of simplicity and assuming that those who access the system have sufficient knowledge of relational databases, the standard query interface is a text box. The contents of the query box are passed to the server as the query string and the results displayed in standard SQL output format. The query must be a choice between an execution (insert, update, delete) or a select query. Also, the number of columns in the result of query must be specified.

REGISTER FIR

To be able to register an FIR on the platform, the reporting person (the victim or otherwise) must approach a police supervised registering center. The fields for reporting an FIR are straightforward: reporting person ID, victim ID, criminal ID, crime type and description. On successful registration of the FIR, a unique FIR ID is provided to the reporting person which can be used to track the status of the FIR.

REVOKE FIR

Similarly, to revoke an FIR, the original reporting person must provide the FIR ID (which was provided to the person when he/she registered the FIR) and his unique platform ID.

IMAGE MATCH

Quite often, FIRs are registered against unknown person or for offences against unknown persons. In this case, images of suspects or victims may be uploaded to the platform instead of the required IDs.

When the image of an unknown person, either as suspect or victim is uploaded, an image matching process on the database is initiated, matching against a database of known persons (already registered on the platform). If any matches are found, the corresponding IDs are then also associated with the present FIR.

If however, no matches occur, the image(s) are stored in a database of unknown persons and whenever the police station registers a new user, his/her photo is matched against all the photos in the database of the unknown persons and the corresponding IDs associated with previous FIRs.

STATISTICS

The interface also includes a real-time histogram plotting the top 5 cities with the highest FIRs active registered.

TECHNOLOGIES

1. pHp
2. sqlite3

MEMBERS

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