**Title:** Criminalistics and Crime Database

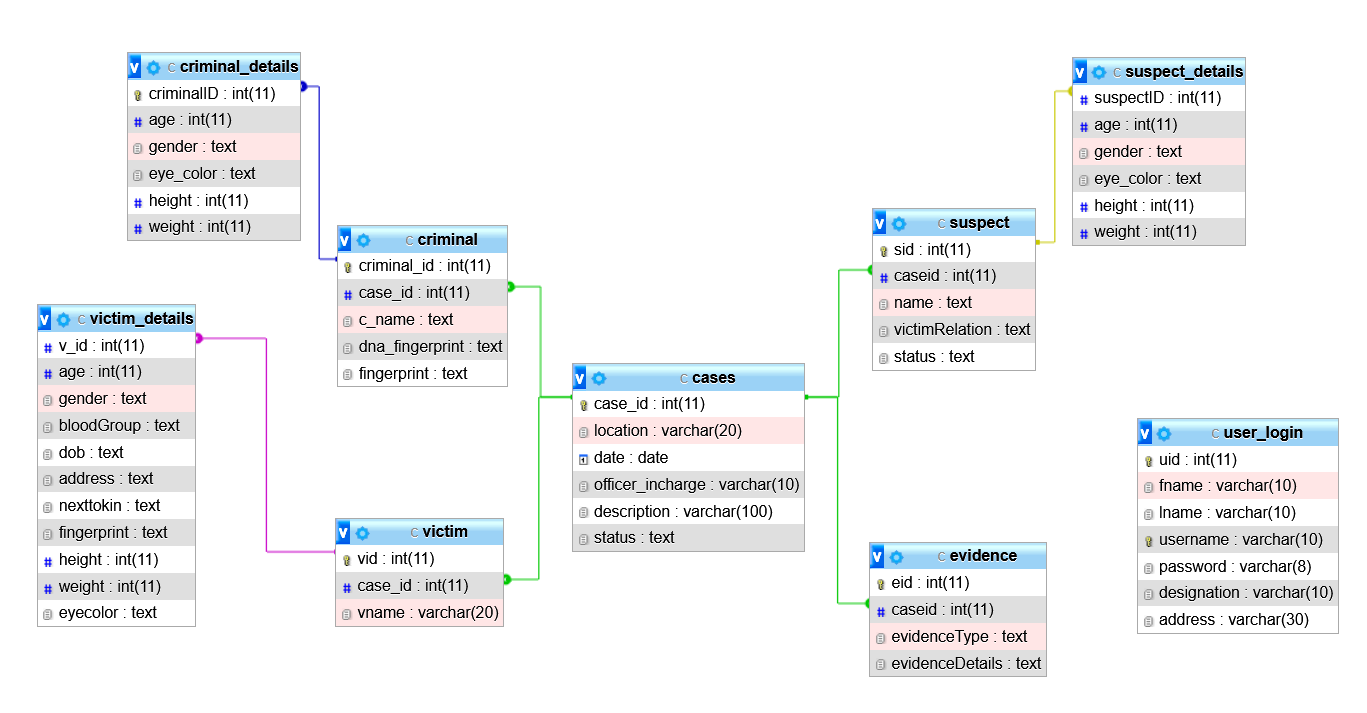
**Team:**

### Mukund R (190948033)

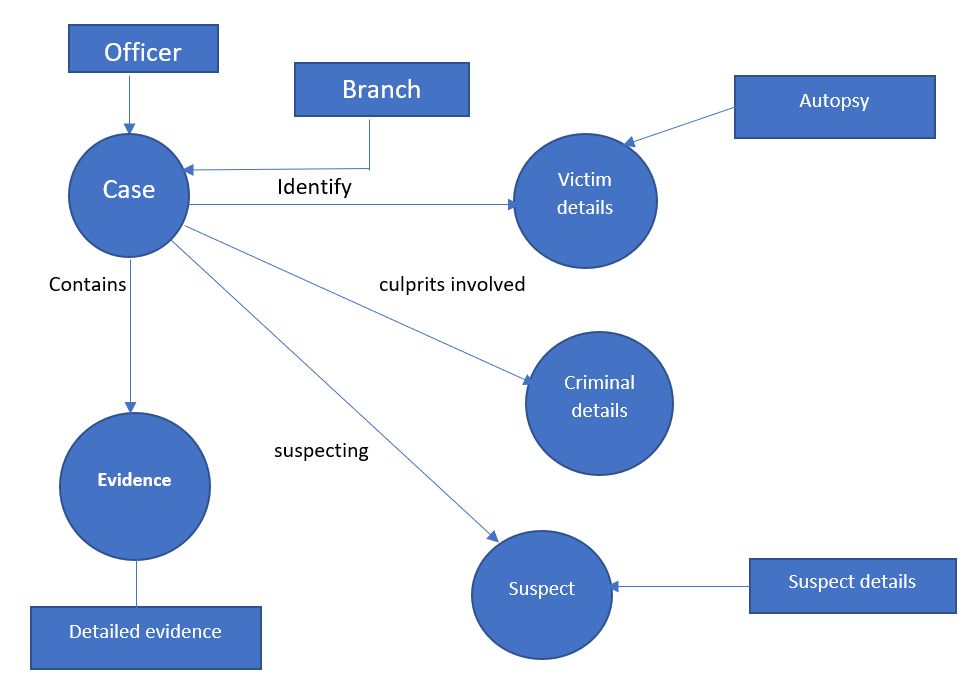
Shreesha (190948034)

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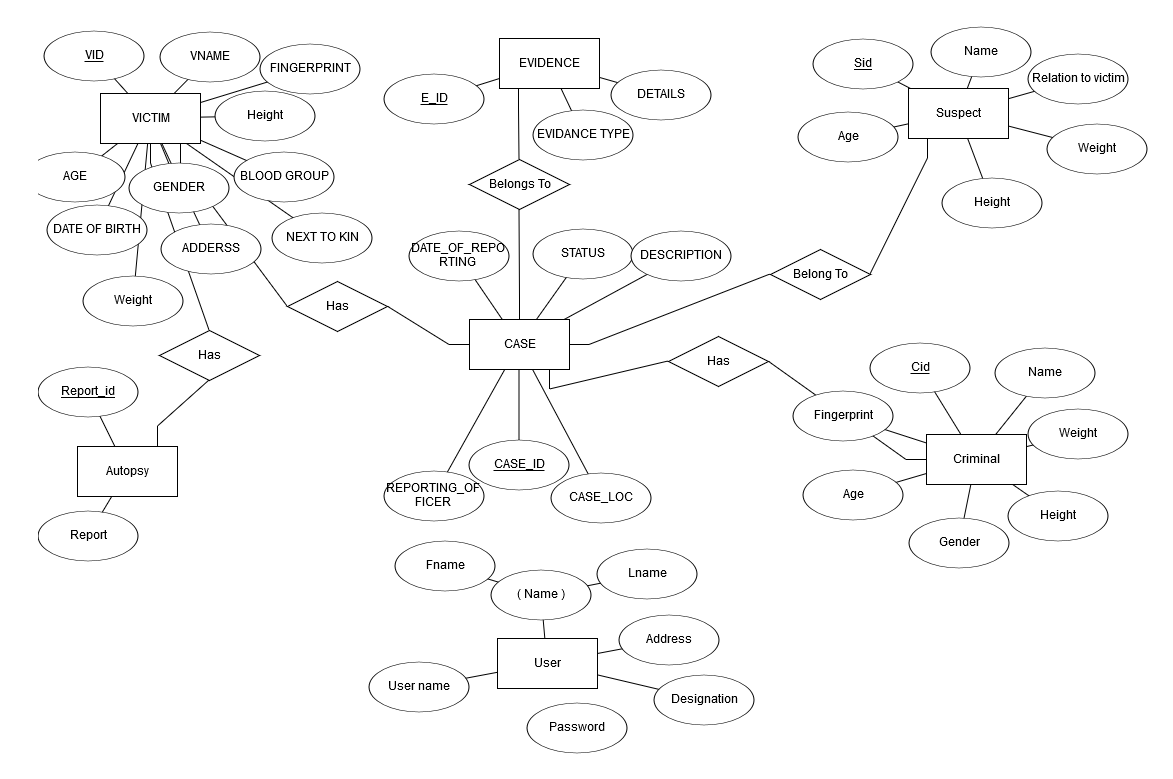
**Schema Diagram:**

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**Data flow Diagram**



**ER Diagram**



**Integrity constraints:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SL. No.** | **Table Name** | **PK** | **FK** |
| 1 | cases | case\_id |  |
| 2 | User\_name | uid |  |
| 3 | criminal | Criminal\_id | case\_id |
| 4 | criminal\_details |  | criminal\_id |
| 5 | victim | vid | case\_id |
| 6 | victim\_details |  | vid |
| 7 | evidence | eid | case\_id |
| 8 | suspect | sid | case\_id |
| 9 | suspect\_details |  | sid |

**Basic Quires**

**User Login**

1. select \*

from user\_login

where UserName = ?

1. select \*

from user\_login

where Password = ? and UserName = ?

**Cases**

1. select \*

from cases

where case\_id = ?

1. insert into cases

values(?,?,?,?,?,?)

1. DELETE FROM cases

WHERE case\_id=?

1. UPDATE cases

set location = ?,date = ?,officer\_incharge = ?,description = ?,status=?

WHERE case\_id=?

1. select \*

from cases

**Criminal and Criminal Details**

1. select \*

from criminal,criminal\_details

where criminal\_id = ?

and criminalID = criminal\_id

1. delete from criminal

where criminal\_id = ?

1. UPDATE criminal

set c\_name = ?

WHERE criminal\_id=?

1. UPDATE criminal\_details

set age = ?,gender = ?,eye\_color = ?,height = ?,weight = ?

WHERE criminalID=?

1. insert into criminal(criminal\_id,case\_id,c\_name)

values (?,?,?)

1. insert into criminal\_details(criminalID,age,gender,eye\_color,height,weight)

values (?,?,?,?,?,?)

**suspect and suspect details**

1. update suspect

set status = 'convicted'

where sid = ?

1. delete from suspect where sid = ?
2. insert into suspect(sid,caseid,name,victimRelation,status)

values (?,?,?,?,?)

1. insert into suspect\_details (suspectID,age,gender,eye\_color,height,weight)

values (?,?,?,?,?,?)

1. insert into suspect\_details (suspectID,age,gender,eye\_color,height,weight)

values (?,?,?,?,?,?)

1. select \*

from suspect,suspect\_details

where sid = ? and sid = suspectID

**Evidence**

1. delete from evidence where eid = ?
2. insert into evidence(eid,caseid,evidenceType,evidenceDetails)

values (?,?,?,?)

1. UPDATE evidence set caseid = ?, evidenceType = ?, evidenceDetails = ?

WHERE eid = ?

1. select \*

from evidence

where eid = ?

**Victim and Victim Details**

1. select \*

from victim v,victim\_details vd

where vid= ? and v.vid = vd.v\_id

1. delete from victim where vid = ?
2. insert into victim values(?,?,?)
3. insert into victim\_details

values(?,?,?,?,?,?,?,?,?,?,?)

**Complex Quires**

**//On button convicted**

1. **TRIGGER**

CREATE TRIGGER `convicted` AFTER UPDATE ON `suspect`

FOR EACH ROW begin

INSERT INTO criminal(case\_id,c\_name)

SELECT caseid,name FROM suspect WHERE status = "convicted";

End

//When new user signup

1. **STORED PROC**

DELIMITER $$

CREATE DEFINER=`root`@`localhost` PROCEDURE `new\_user`(IN `fname1` TEXT, IN `lname1` TEXT, IN `username1` TEXT, IN `pass1` TEXT, IN `designation1` TEXT, IN `address1` TEXT)

NO SQL

insert into user\_login(fname,lname,username,password,designation,address)VALUES(fname1,lname1,username1,pass1,designation1,address1)$$

DELIMITER ;

//to increment the uid in user\_login table

1. **MAX**

select MAX(uid) as uid

from user\_login

//In finger print matching get max uid for iter

1. **ORDER BY DESC and Limit**

select \*

from criminal

order by criminal\_id desc limit 1

1. TODO