

Database Management Systems

Project proposal

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Court of law system manager

PROBLEM:

Courts are one of the most important government institutions that are still functioning with paper, which has led to delaying case adjudication, interrupting public interests, wasting a great amount of time and effort, and causing significant damage to key records and files. Database sciences can help solve this problem and help everyone who works in or visits a court, starting from the chief justice to the lawyers and the citizens.

Users' functionalities and privileges:

1. Chief justice:

- Manages the scheduling of different cases
- Determines which judge is in charge of which case
- Sees complaints
- Can read all data in all cases
- Can change which judge handles which case

2. Judge:

- Imposes a sentence in each case assigned to him
- Approves or denies an appeal.
- Can change the scheduling of a case that he handles.
- Unable to change which case handles.
- Sees all data related to cases assigned to him (evidence, lawyers, plaintiff, or petitioner bringing the case, or the defendant or respondent defending against one).

3. Lawyer:

- Can raise a case or an appeal
- Can see all data in cases where he represents one of the parties involved
- Cannot change anything in the database.
- Can submit evidence to be looked at by the police.
- report complaints.

4. Civilian:

- Can see all evidence in cases where he is one of the parties involved.
- Can see the schedule of his court sessions
- Can see the assigned judge and all data related to his case
- Cannot change anything in the database except which lawyer represents him in each case.
- Cannot raise a case or an appeal

(If a civilian is a lawyer who wishes to represent himself in court he should write himself as his

lawyer then login as a lawyer as ordinary civilians cannot raise a case or an appeal.)

Entities:

- Court:
Every court has its own cases which are common on kind and location and staff of judges
- Chief justice:
The highest authority on the court who can assign the cases to judges and determine the place and the date of them
- Judge:
The ability to adjudicate cases, postpone its date, reject or accept appeals, and consider whether or not they have been submitted before
- Lawyer:
Has an id, a list of cases, and national number and he can submit cases and appeals, report complaints and report Evidence.
- Civilian:
Has a national number and a list of cases he is involved in.
- Witnesses :
His statements are taken into account in every case in which he is a witness, and has his own national id
- Case:
Every case has its data of Plaintiff, Defendant, lawyers for the two parties and Attorney's authorization for every lawyer, Evidence, court session, date, court sessions, and it's judge
- Court session:
each court session has a case, a place and a timing.
- Attorney's authorization:
A power of attorney is a contract documented in the real estate registry to appoint a lawyer for the client's judicial affairs
- Evidence:
Can be a sound or a video file or a document or a witness, one of its attributes is who submitted it (lawyer, police, witness, etc.)