

DatabaseApp
<div>- people: People</div> <div>- cases: Cases</div> <div>- users: Users</div>
<div>+ DatabaseApp()</div> <div>+ login(String username, String password): boolean</div> <div>+ createUser(UUID userID, String firstName, String lastName, String password): boolean</div> <div>+ createCriminal(String firstName, String lastName, String nickname, String height, double weight, String eyeColor, String description, ArrayList<String> piercings, boolean inJail): boolean</div> <div>+ createVictim(String firstName, String lastName, String report, String hospital, long phoneNum, String address): boolean</div> <div>+ createOfficer(String firstName, String lastName, String rank, String city, long officeNum, String address): boolean</div> <div>+ createWitness(String firstName, String lastName, String testimony, long phoneNum, String address): boolean</div> <div>+ createCase(int caseNum, String crimeType, String location, ArrayList<String> criminals, ArrayList<String> officers, ArrayList<String> victims): boolean</div> <div>+ changeCriminal(Criminal criminal): void</div> <div>+ changeVictim(Victim victim): void</div> <div>+ changeOfficer(Officer officer): void</div> <div>+ changeWitness(Witness witness): void</div> <div>+ changeCase(Case caseToChange): void</div> <div>+ searchCriminalByName(String name): Criminal</div> <div>+ searchVictimByName(String name): Victim</div> <div>+ searchOfficerByName(String name): Officer</div> <div>+ searchWitnessByName(String name): Witness</div> <div>+ searchCriminalByFirstName(String firstName): ArrayList<Criminal></div> <div>+ searchCriminalByLastName(String lastName): ArrayList<Criminal></div> <div>+ searchCriminalByAge(int lowAge, int highAge): ArrayList<Criminal></div> <div>+ searchCriminalBySex(String sex): ArrayList<Criminal></div> <div>+ searchCriminalByNickname(String nickname): ArrayList<Criminal></div> <div>+ searchCriminalByHeight(int feet, int inches): ArrayList<Criminal></div> <div>+ searchCriminalByWeight(double lowWeight, double highWeight): ArrayList<Criminal></div> <div>+ searchCriminalByRace(String race): ArrayList<Criminal></div> <div>+ searchCriminalByRace(String race): ArrayList<Criminal></div> <div>+ searchCriminalByHairColor(String hairColor): ArrayList<Criminal></div> <div>+ searchCriminalByEyeColor(String eyeColor): ArrayList<Criminal></div> <div>+ searchCriminalByTattoo(String tattoo): ArrayList<Criminal></div> <div>+ searchCriminalByShoeSize(double lowShoeSize, double highShoeSize): ArrayList<Criminal></div> <div>+ searchCriminalByPiercing(String piercing): ArrayList<Criminal></div> <div>+ searchCriminalInJail(boolean inJail): ArrayList<Criminal></div> <div>+ searchCriminalByUnderage(): ArrayList<Criminal></div>

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aseApp

ord): boolean
Name, String lastName, String

ng lastName, int age, String sex, String
, String race, String hairColor, String
:String> tattoos, double shoeSize,
Jail): boolean

lastName, int age, String sex, String
, String address): boolean

lastName, int age, String sex, String
address): boolean

ng lastName, int age, String sex, String
ress): boolean

eType, String date, String description,
nals, ArrayList<String> victims,
tring> witnesses): boolean

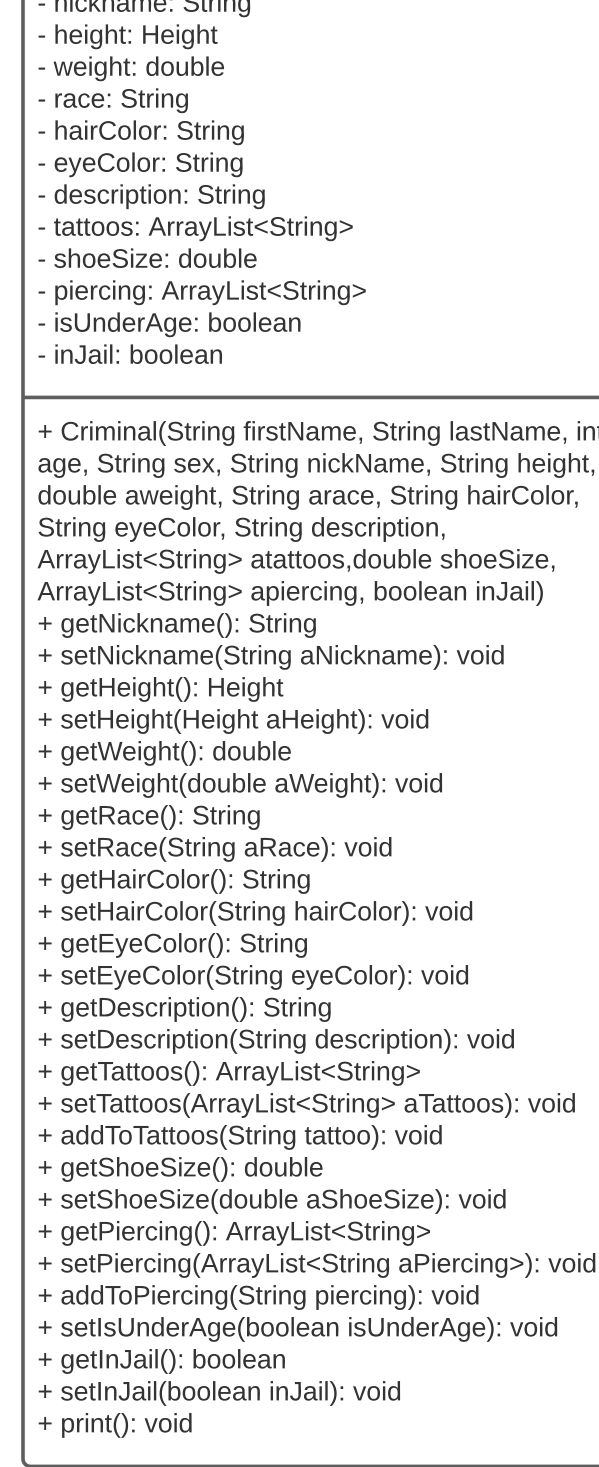
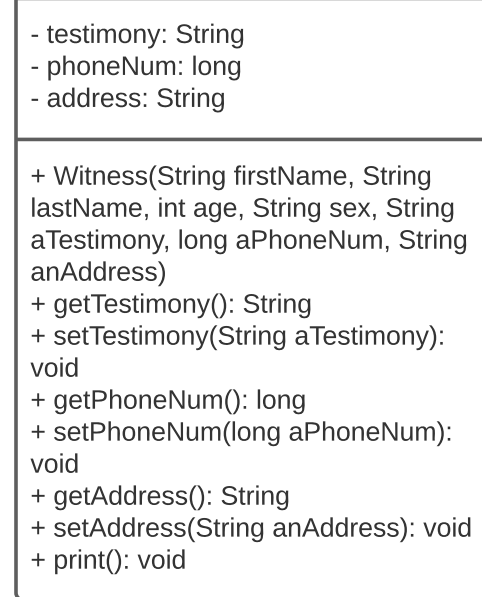
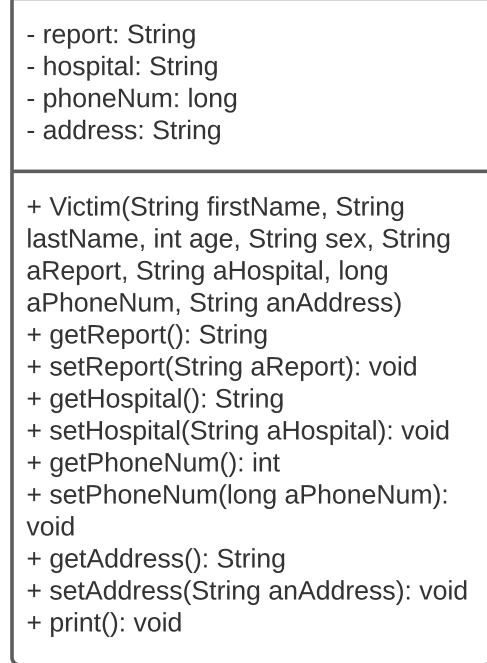
oid

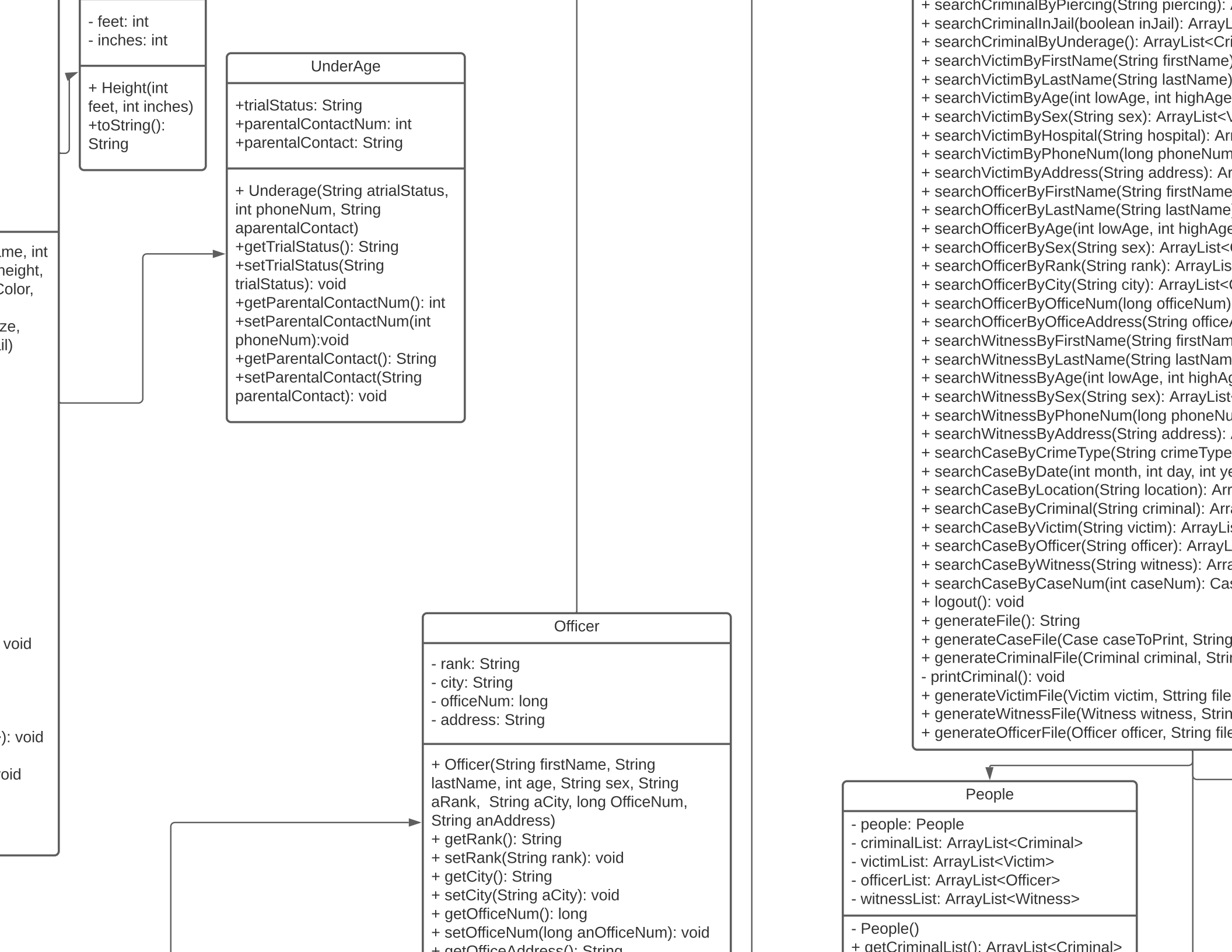
id
void
): Criminal
Victim
Officer
): Witness
rstName): ArrayList<Criminal>
stName): ArrayList<Criminal>
highAge): ArrayList<Criminal>
rayList<Criminal>
ckname): ArrayList<Criminal>
nches): ArrayList<Criminal>
Weight, double highWeight):

ArrayList<Criminal>
ArrayList<Criminal>
irColor): ArrayList<Criminal>
eColor): ArrayList<Criminal>
): ArrayList<Criminal>
owShoeSize, double highShoeSize):

cing): ArrayList<Criminal>
ArrayList<Criminal>
ist<Criminal>
```

DataConstants
<pre># USER_FILE_NAME: String # USER_ID: String # USER_FIRST_NAME: String # USER_LAST_NAME: String # USER_USERNAME: String # USER_PASSWORD: String # CRIMINAL_FILE_NAME: String # CRIMINAL_FIRST_NAME: String # CRIMINAL_LAST_NAME: String # CRIMINAL_AGE: String # CRIMINAL_SEX: String # CRIMINAL_NICKNAME: String # CRIMINAL_HEIGHT: String # CRIMINAL_WEIGHT: String # CRIMINAL_RACE: String # CRIMINAL_HAIR_COLOR: String # CRIMINAL_EYE_COLOR: String # CRIMINAL_DESCRIPTION: String # CRIMINAL_TATTOOS: String # CRIMINAL_SHOE_SIZE: String # CRIMINAL_PIERCINGS: String # CRIMINAL_IN_JAIL: String # VICTIM_FILE_NAME: String # VICTIM_ID: String # VICTIM_FIRST_NAME: String # VICTIM_LAST_NAME: String # VICTIM_AGE: String # VICTIM_SEX: String # VICTIM_REPORT: String # VICTIM_CASE_NUM: String # VICTIM_HOSPITAL: String # VICTIM_PHONE_NUM: String</pre>





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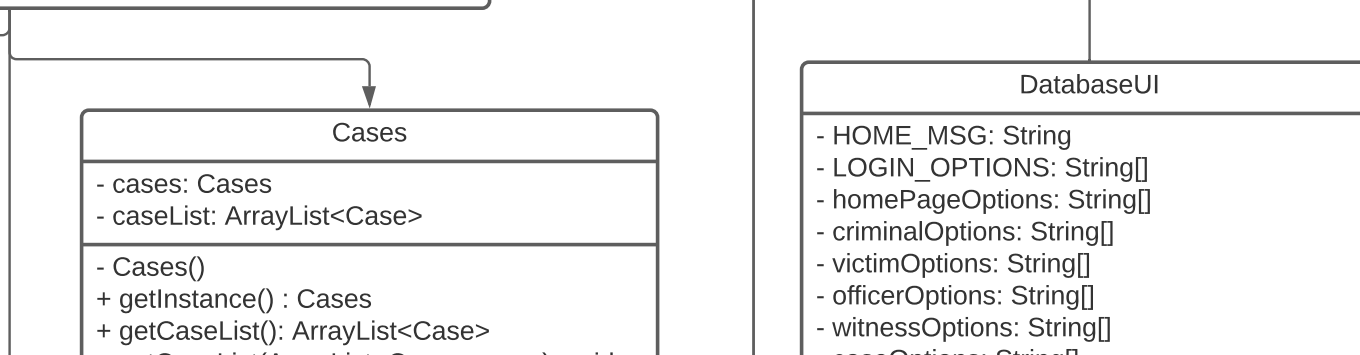
ing): ArrayList<Criminal>
ArrayList<Criminal>
ist<Criminal>
Name): ArrayList<Victim>
Name): ArrayList<Victim>
ghAge): ArrayList<Victim>
yList<Victim>
al): ArrayList<Victim>
neNum): ArrayList<Victim>
ss): ArrayList<Victim>
tName): ArrayList<Officer>
tName): ArrayList<Officer>
ighAge): ArrayList<Officer>
yList<Officer>
rrayList<Officer>
yList<Officer>
eNum): ArrayList<Officer>
officeAddress): ArrayList<Officer>
stName): ArrayList<Witness>
stName): ArrayList<Witness>
ighAge): ArrayList<Witness>
rayList<Witness>
oneNum): ArrayList<Witness>
ress): ArrayList<Witness>
eType): ArrayList<Case>
, int year): ArrayList<Case>
n): ArrayList<Case>
al): ArrayList<Case>
ArrayList<Case>
ArrayList<Case>
s): ArrayList<Case>
n): Case

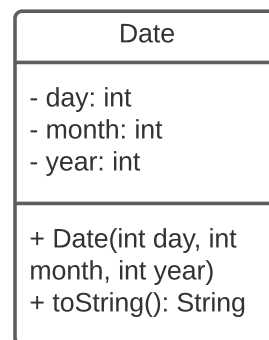
```

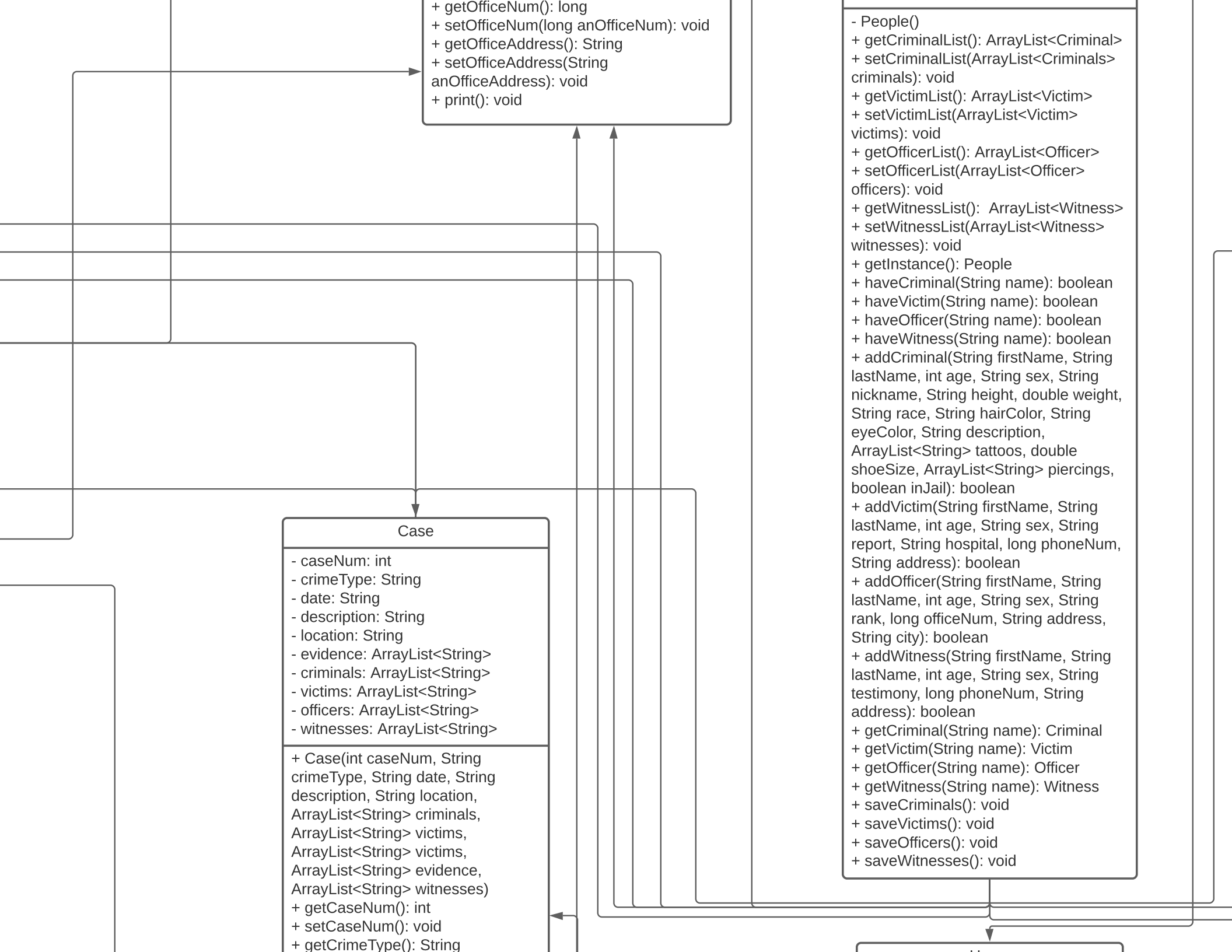
```
String fileName): void
al, String fileName): void
```

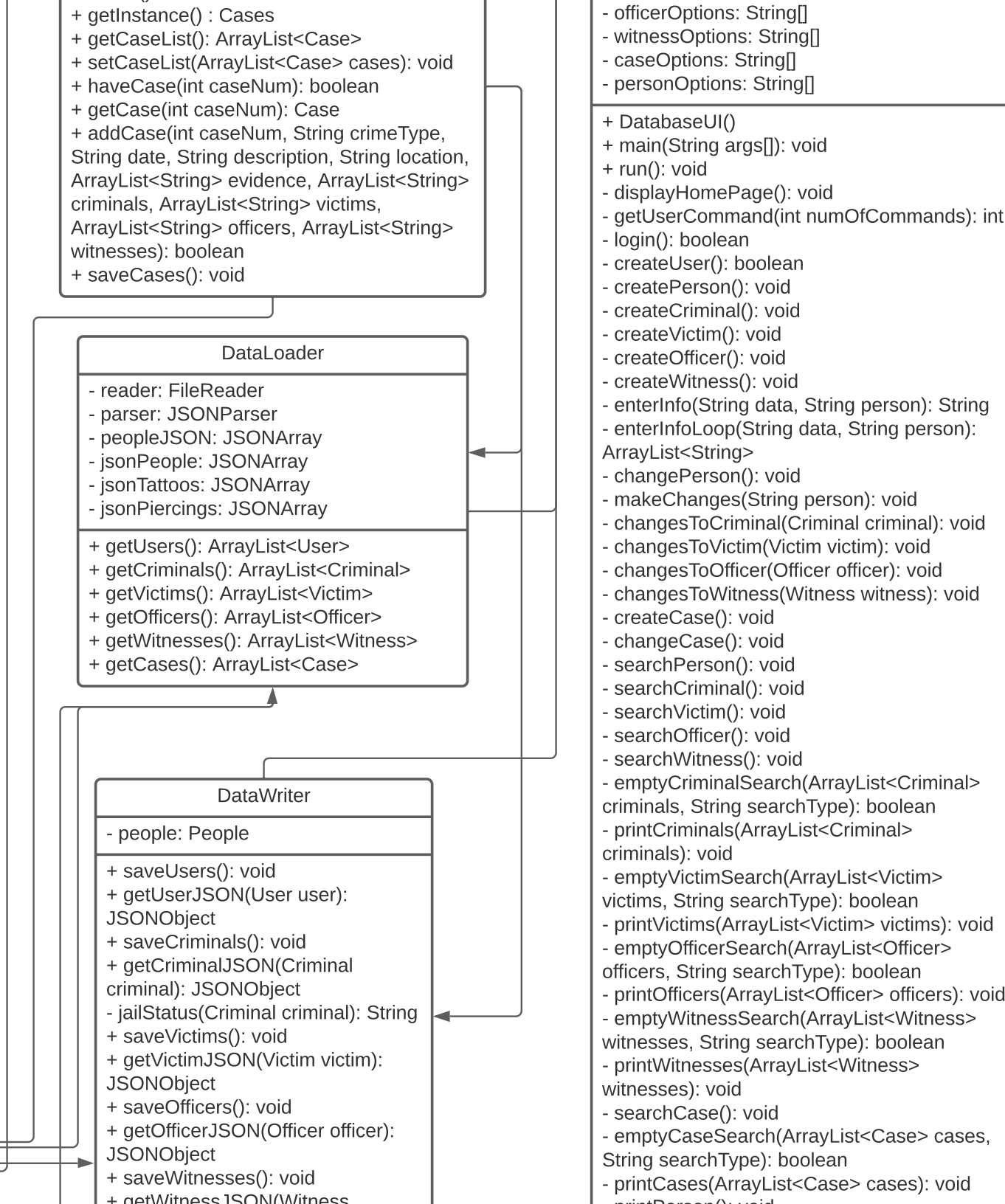
```
ing fileName): void
s, String fileName): void
ing fileName): void
```

```
# VICTIM_CASE_NUM: String
# VICTIM_HOSPITAL: String
# VICTIM_PHONE_NUM: String
# VICTIM_ADDRESS: String
# VICTIM_PROTECTIVE_CUSTODY: String
# OFFICER_FILE_NAME: String
# OFFICER_FIRST_NAME: String
# OFFICER_LAST_NAME: String
# OFFICER_AGE: String
# OFFICER_SEX: String
# OFFICER_RANK: String
# OFFICER_CASE_NUM: String
# OFFICER_OFFICE_NUM : String
# OFFICER_ADDRESS: String
# OFFICER_CITY: String
# WITNESS_FILE_NAME: String
# WITNESS_FIRST_NAME: String
# WITNESS_LAST_NAME: String
# WITNESS_AGE: String
# WITNESS_SEX: String
# WITNESS_TESTIMONY: String
# WITNESS_PHONE_NUM: String
# WITNESS_ADDRESS: String
# WITNESS_CASE_NUM: String
# CASE_FILE_NAME: String
# CASE_CASE_NUM: String
# CASE_CRIME_TYPE: String
# CASE_DATE: String
# CASE_DESCRIPTION: String
# CASE_LOCATION: String
# CASE_JAIL_STATUS: String
# CASE_CRIMINALS: String
# CASE_VICTIMS: String
# CASE_OFFICERS: String
# CASE_WITNESSES: String
```









`- officerOptions: String[]`
`- witnessOptions: String[]`
`- caseOptions: String[]`
`- personOptions: String[]`

`+ DatabaseUI()`
`+ main(String args[]): void`
`+ run(): void`
`- displayHomePage(): void`
`- getUserCommand(int numOfCommands): int`
`- login(): boolean`
`- createUser(): boolean`
`- createPerson(): void`
`- createCriminal(): void`
`- createVictim(): void`
`- createOfficer(): void`
`- createWitness(): void`
`- enterInfo(String data, String person): String`
`- enterInfoLoop(String data, String person): ArrayList<String>`
`- changePerson(): void`
`- makeChanges(String person): void`
`- changesToCriminal(Criminal criminal): void`
`- changesToVictim(Victim victim): void`
`- changesToOfficer(Officer officer): void`
`- changesToWitness(Witness witness): void`
`- createCase(): void`
`- changeCase(): void`
`- searchPerson(): void`
`- searchCriminal(): void`
`- searchVictim(): void`
`- searchOfficer(): void`
`- searchWitness(): void`
`- emptyCriminalSearch(ArrayList<Criminal> criminals, String searchType): boolean`
`- printCriminals(ArrayList<Criminal> criminals): void`
`- emptyVictimSearch(ArrayList<Victim> victims, String searchType): boolean`
`- printVictims(ArrayList<Victim> victims): void`
`- emptyOfficerSearch(ArrayList<Officer> officers, String searchType): boolean`
`- printOfficers(ArrayList<Officer> officers): void`
`- emptyWitnessSearch(ArrayList<Witness> witnesses, String searchType): boolean`
`- printWitnesses(ArrayList<Witness> witnesses): void`
`- searchCase(): void`
`- emptyCaseSearch(ArrayList<Case> cases, String searchType): boolean`
`- printCases(ArrayList<Case> cases): void`
`- printPages(): void`

