

Height - feet: int inches: int

DatabaseAp

- people: Peoplecases: Casesusers: Users
- + DatabaseApp()
- + login(String username, String password): be
- + createUser(UUID userID, String firstName, userName, String password): boolean
- + createCriminal(String firstName, String lastI nickname, String height, double weight, String eyeColor, String description, ArrayList<String:
- ArrayList<String> piercings, boolean inJail): b + createVictim(String firstName, String lastNa report, String hospital, long phoneNum, String
- + createOfficer(String firstName, String lastNarank,String city, long officeNum, String address+ createWitness(String firstName, String lastName)
- testimony, long phoneNum, String address): k + createCase(int caseNum, String crimeType String location, ArrayList<String> criminals, A

ArrayList<String> officers, ArrayList<String> v

- + changeCriminal(Criminal criminal): void
- + changeVictim(Victim victim): void
- + changeOfficer(Officer officer): void
- + changeWitness(Witness witness): void
- + changeCase(Case caseToChange): void
 - changeCase (Case case rochange). Volu
- + searchCriminalByName(String name): Crim
- + searchVictimByName(String name): Victim
- + searchOfficerByName(String name): Office
- + searchWitnessByName(String name): WitnessByName(String n
- + searchCriminalByFirstName(String firstName
- + searchCriminalByLastName(String lastNam
- + searchCriminalByAge(int lowAge, int highA
- + searchCriminalBySex(String sex): ArrayList
- + searchCriminalByNickname(String nicknam
- + searchCriminalByHeight(int feet, int inches)
- + searchCriminalByWeight(double lowWeight ArrayList<Criminal>
- + searchCriminalByRace(String race): ArrayL
- + searchCriminalByRace(String race): ArrayL
- + searchCriminalByHairColor(String hairColor
- + searchCriminalByEyeColor(String eyeColor
- + searchCriminalByTattoo(String tattoo): Arra
- + searchCriminalByShoeSize(double lowShoeArrayList<Criminal>
- + searchCriminalByPiercing(String piercing):
- + searchCriminalInJail(boolean inJail): ArrayL
- + searchCriminalRyl Inderage(): Arrayl ist<Cr

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

address): boolean

ess): boolean

bid

id

void

Victim Officer

): Criminal

): Witness

rayList<Criminal>

ArrayList<Criminal> ArrayList<Criminal>

): ArrayList<Criminal>

ArrayList<Criminal>

ist<Criminal>

cing): ArrayList<Criminal>

lastName, int age, String sex, String

ng lastName, int age, String sex, String

eType, String date, String description,

nals, ArrayList<String> victims,

rstName): ArrayList<Criminal>

stName): ArrayList<Criminal>

highAge): ArrayList<Criminal>

ckname): ArrayList<Criminal>

nches): ArrayList<Criminal>

Neight, double highWeight):

.irColor): ArrayList<Criminal> eColor): ArrayList<Criminal>

owShoeSize, double highShoeSize):

ring> witnesses): boolean

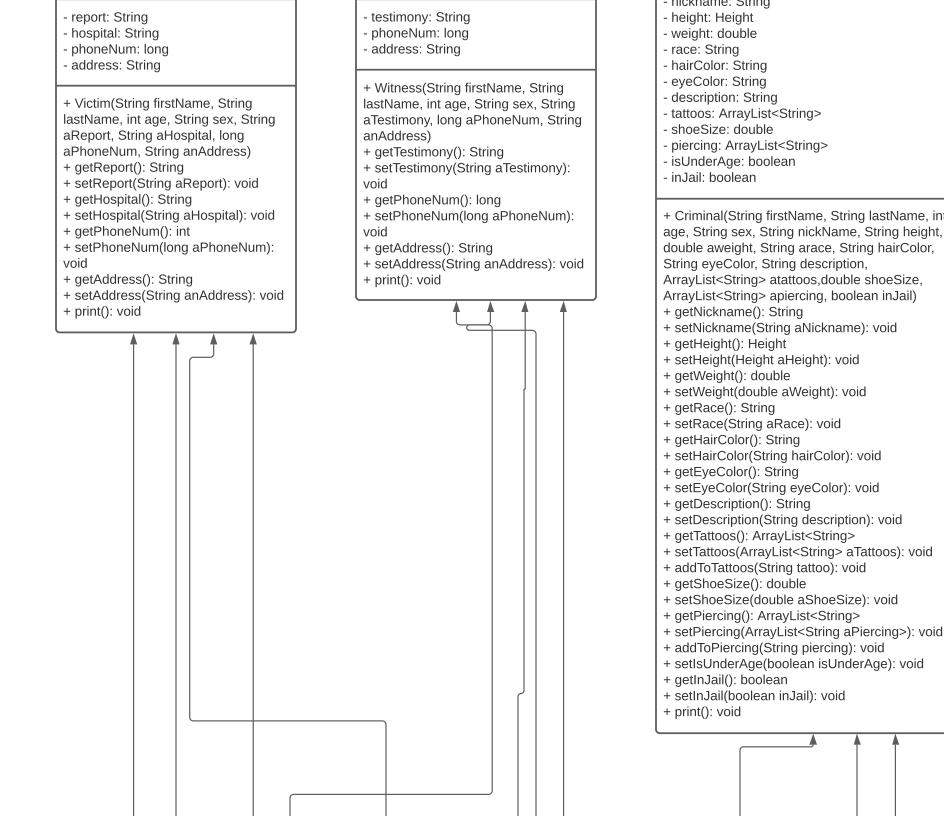
DataConstants

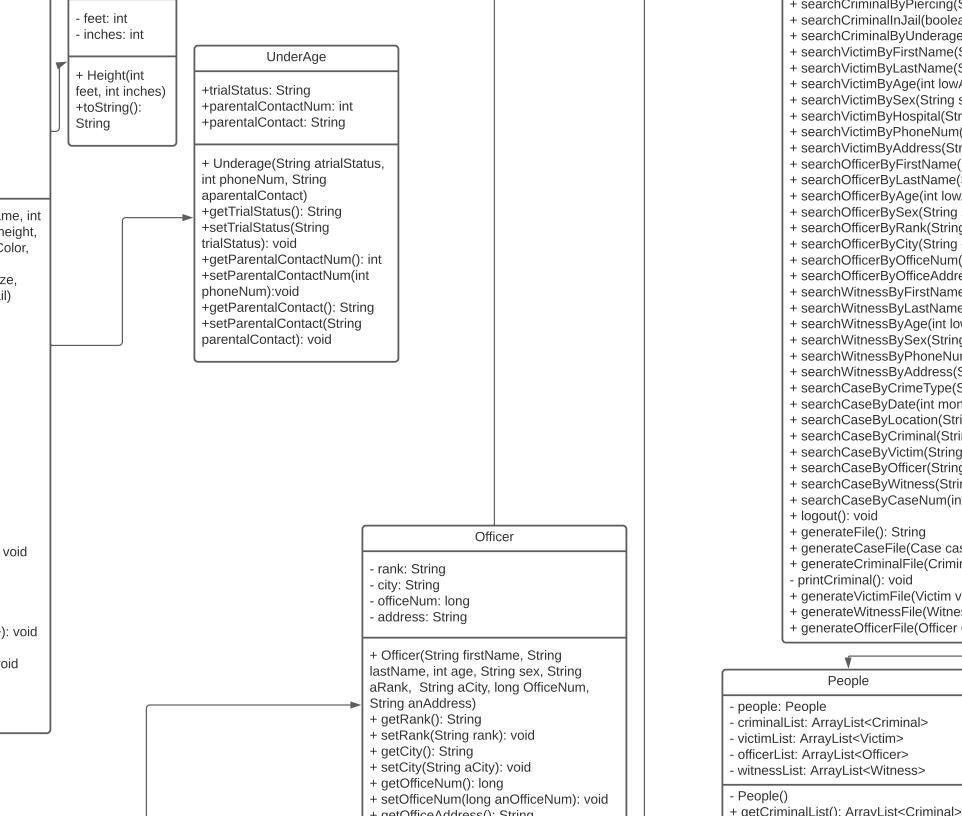
USER FILE NAME: String # USER ID: String # USER_FIRST_NAME: String **# USER LAST NAME: String** # USER_USERNAME: String # USER PASSWORD: String # CRIMINAL FILE NAME: String # CRIMINAL FIRST NAME: String # CRIMINAL_LAST_NAME: String # CRIMINAL AGE: String # CRIMINAL_SEX: String # CRIMINAL NICKNAME: String # 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





ze,

+ searchVictimByPhoneNum(long phoneNum + searchVictimByAddress(String address): Ar + searchOfficerByFirstName(String firstName + searchOfficerByLastName(String lastName + searchOfficerByAge(int lowAge, int highAge + searchOfficerBySex(String sex): ArrayList< + searchOfficerByRank(String rank): ArrayLis + searchOfficerByCity(String city): ArrayList< + searchOfficerByOfficeNum(long officeNum) + searchOfficerByOfficeAddress(String office) + searchWitnessByFirstName(String firstNam + searchWitnessByLastName(String lastNam + searchWitnessByAge(int lowAge, int highAge + searchWitnessBySex(String sex): ArrayList + searchWitnessByPhoneNum(long phoneNu + searchWitnessByAddress(String address): + searchCaseByCrimeType(String crimeType + searchCaseByDate(int month, int day, int ye + searchCaseByLocation(String location): Arr + searchCaseByCriminal(String criminal): Arr + searchCaseByVictim(String victim): ArrayLi + searchCaseByOfficer(String officer): ArrayL + searchCaseByWitness(String witness): Arra + searchCaseByCaseNum(int caseNum): Case + logout(): void + generateFile(): String + generateCaseFile(Case caseToPrint, String + generateCriminalFile(Criminal criminal, Strip - printCriminal(): void + generateVictimFile(Victim victim, Sttring file + generateWitnessFile(Witness witness, Strin + generateOfficerFile(Officer officer, String file People - people: People - criminalList: ArrayList<Criminal> victimList: ArrayList<Victim>

+ searchCriminalByPiercing(String piercing):

+ searchCriminalInJail(boolean inJail): ArrayL

+ searchCriminalByUnderage(): ArrayList<Cr + searchVictimByFirstName(String firstName)

+ searchVictimByLastName(String lastName)

+ searchVictimByAge(int lowAge, int highAge

+ searchVictimBySex(String sex): ArrayList<\

+ searchVictimByHospital(String hospital): Ar

```
cing): ArrayList<Criminal>
                                            # VICTIM CASE NUM: String
                                            # VICTIM HOSPITAL: String
ArrayList<Criminal>
                                            # VICTIM PHONE NUM: String
.ist<Criminal>
                                            # VICTIM ADDRESS: String
Name): ArrayList<Victim>
                                            # VICTIM PROTECTIVE CUSTODY: String
Name): ArrayList<Victim>
                                            # OFFICER FILE NAME: String
ghAge): ArrayList<Victim>
yList<Victim>
                                            # OFFICER_FIRST_NAME: String
                                            # OFFICER LAST NAME: String
al): ArravList<Victim>
                                            # OFFICER AGE: String
neNum): ArrayList<Victim>
                                            # OFFICER_SEX: String
ss): ArrayList<Victim>
                                            # OFFICER RANK: String
tName): ArrayList<Officer>
                                            # OFFICER CASE NUM: String
tName): ArrayList<Officer>
                                            # OFFICER OFFICE NUM: String
ighAge): ArrayList<Officer>
                                            # OFFICER ADDRESS: String
yList<Officer>
                                            # OFFICER CITY: String
rrayList<Officer>
                                            # WITNESS FILE NAME: String
vList<Officer>
                                            # WITNESS FIRST NAME: String
eNum): ArravList<Officer>
                                            # WITNESS LAST_NAME: String
officeAddress): ArrayList<Officer>
                                            # WITNESS AGE: String
stName): ArrayList<Witness>
                                            # WITNESS SEX: String
stName): ArrayList<Witness>
                                            # WITNESS TESTIMONY: String
highAge): ArrayList<Witness>
rayList<Witness>
                                            # WITNESS_PHONE_NUM: String
                                            # WITNESS ADDRESS: String
oneNum): ArrayList<Witness>
                                            # WITNESS CASE NUM: String
ress): ArrayList<Witness>
                                            # CASE FILE NAME: String
eType): ArrayList<Case>
                                            # CASE CASE NUM: String
/, int year): ArrayList<Case>
                                            # CASE CRIME TYPE: String
n): ArrayList<Case>
                                            # CASE DATE: String
al): ArrayList<Case>
                                            # CASE DESCRIPTION: String
ArrayList<Case>
                                            # CASE LOCATION: String
ArrayList<Case>
                                            # CASE JAIL STATUS: String
s): ArrayList<Case>
                                            # CASE CRIMINALS: String
n): Case
                                            # CASE VICTIMS: String
                                            # CASE OFFICERS: String
                                            # CASE WITNESSES: String
String fileName): void
al, String fileName): void
ing fileName): void
s, String fileName): void
ring fileName): void
                                                                               DatabaseUI
                         Cases

    HOME MSG: String

                                                               LOGIN OPTIONS: String[]
       - cases: Cases

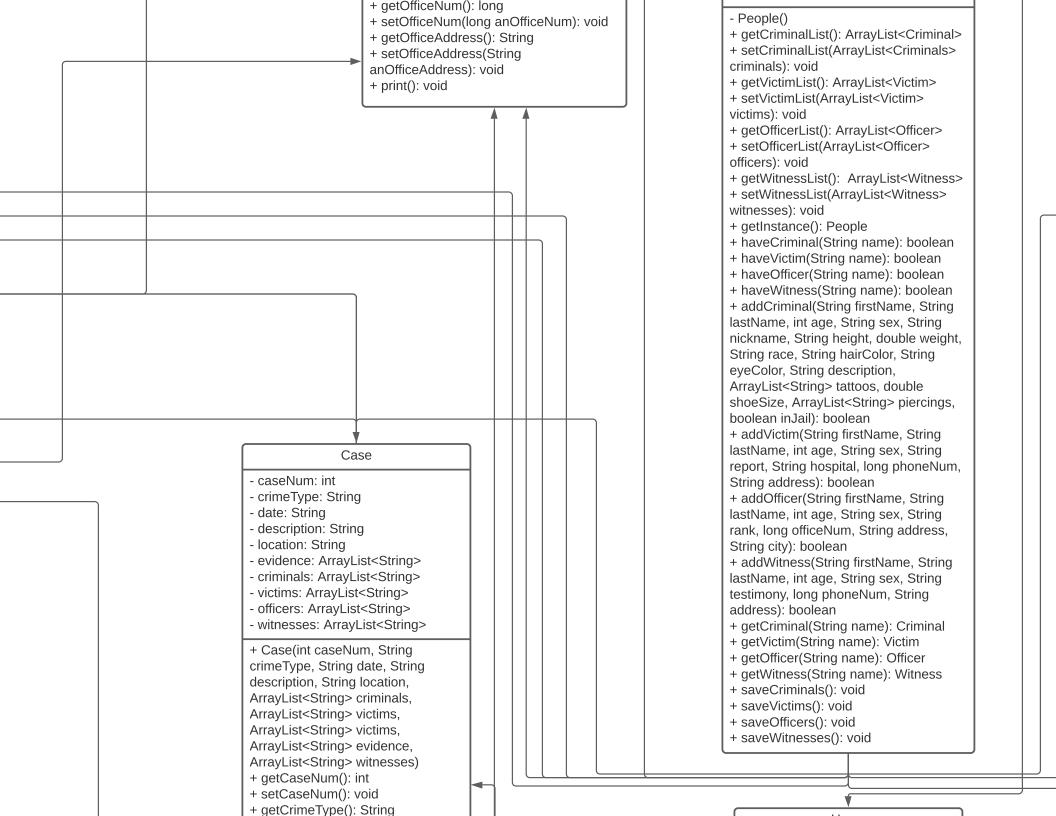
    homePageOptions: String[]

       caseList: ArrayList<Case>

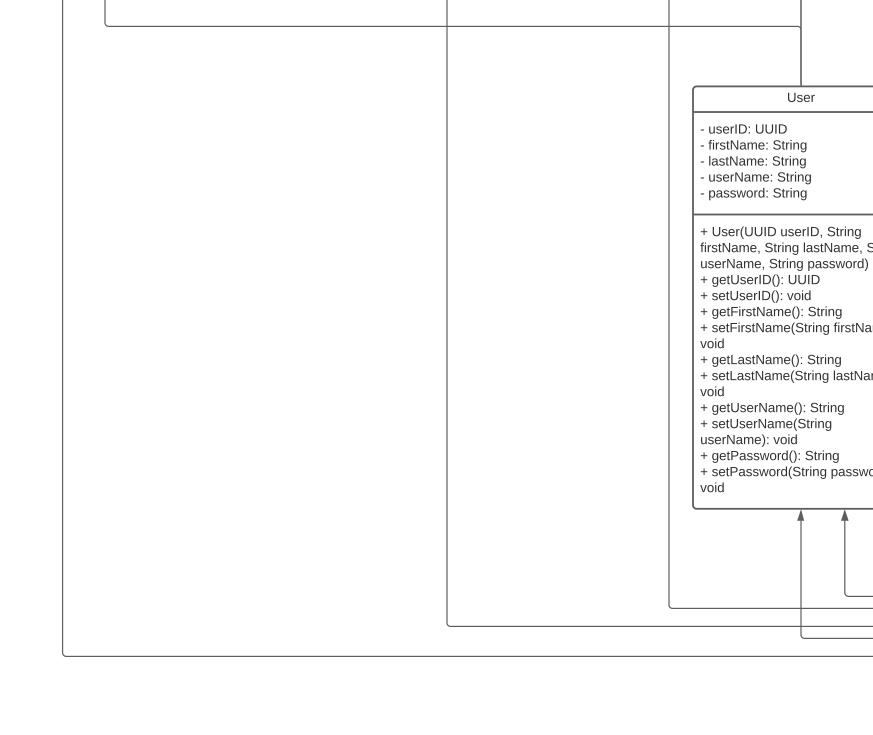
    criminalOptions: String∏

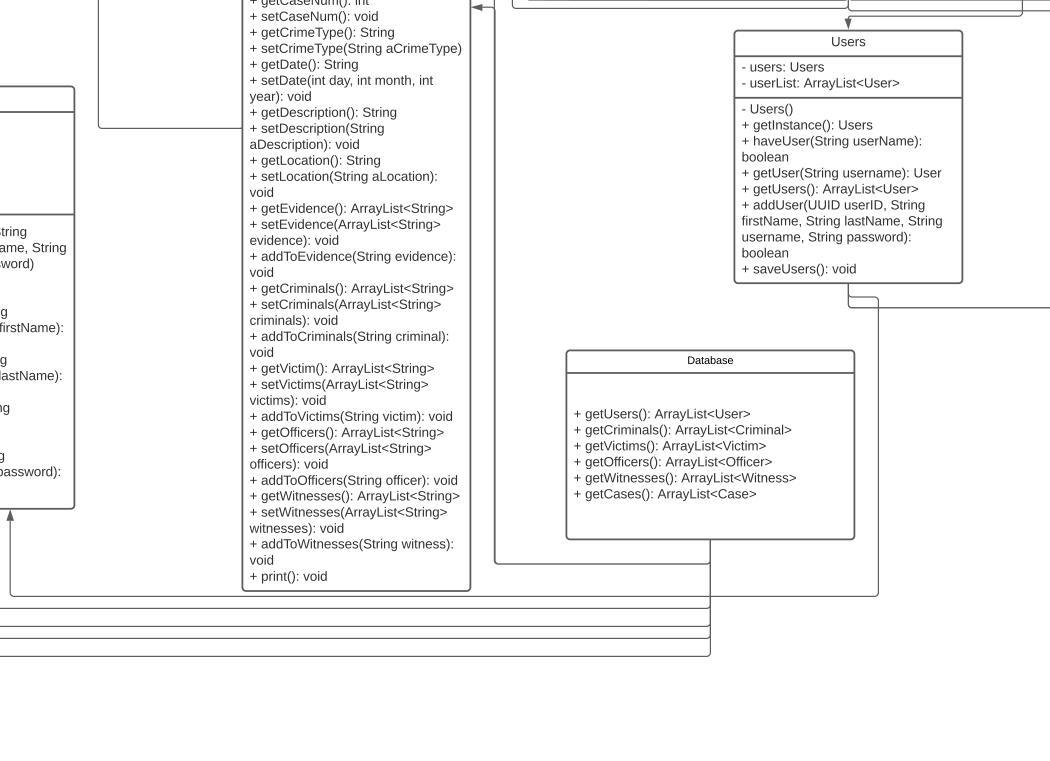
                                                               - victimOptions: String[]
       - Cases()
                                                               officerOptions: String[]
       + getInstance(): Cases
                                                               - witnessOptions: String∏
       + getCaseList(): ArrayList<Case>
```

- yea	nth: int			



- + getInstance(): Cases officerOptions: String[] - witnessOptions: String[] + getCaseList(): ArrayList<Case> - caseOptions: String[] + setCaseList(ArrayList<Case> cases): void personOptions: String∏ + haveCase(int caseNum): boolean + getCase(int caseNum): Case + DatabaseUI() + addCase(int caseNum, String crimeType, + main(String args[]): void String date, String description, String location, + run(): void ArrayList<String> evidence, ArrayList<String> - displayHomePage(): void criminals, ArrayList<String> victims, ArrayList<String> officers, ArrayList<String> - login(): boolean witnesses): boolean - createUser(): boolean + saveCases(): void createPerson(): void - createCriminal(): void - createVictim(): void DataLoader - createOfficer(): void - createWitness(): void - reader: FileReader - parser: JSONParser enterInfoLoop(String data, String person): - peopleJSON: JSONArray ArrayList<String> - isonPeople: JSONArray - changePerson(): void - jsonTattoos: JSONArray - makeChanges(String person): void - jsonPiercings: JSONArray - changesToCriminal(Criminal criminal): void + getUsers(): ArrayList<User> - changesToVictim(Victim victim): void + getCriminals(): ArrayList<Criminal> changesToOfficer(Officer officer): void - changesToWitness(Witness witness): void + getVictims(): ArrayList<Victim> + getOfficers(): ArrayList<Officer> - createCase(): void + getWitnesses(): ArrayList<Witness> - changeCase(): void + getCases(): ArrayList<Case> - searchPerson(): void searchCriminal(): void - searchVictim(): void searchOfficer(): void searchWitness(): void emptyCriminalSearch(ArrayList<Criminal> **DataWriter** criminals, String searchType): boolean printCriminals(ArrayList<Criminal> - people: People criminals): void + saveUsers(): void - emptyVictimSearch(ArrayList<Victim> + getUserJSON(User user): victims, String searchType): boolean **JSONObiect** + saveCriminals(): void - emptyOfficerSearch(ArrayList<Officer> + getCriminalJSON(Criminal officers, String searchType): boolean criminal): JSONObject - jailStatus(Criminal criminal): String - emptyWitnessSearch(ArrayList<Witness> + saveVictims(): void witnesses, String searchType): boolean + getVictimJSON(Victim victim): printWitnesses(ArrayList<Witness> **JSONObject** witnesses): void + saveOfficers(): void - searchCase(): void + getOfficerJSON(Officer officer): **JSONObject** String searchType): boolean + saveWitnesses(): void printCases(ArrayList<Case> cases): void + nat/Mitnace ISON/Mitnace
 - getUserCommand(int numOfCommands): int - enterInfo(String data, String person): String - printVictims(ArrayList<Victim> victims): void printOfficers(ArrayList<Officer> officers): void emptyCaseSearch(ArrayList<Case> cases,





JSONObject + saveWitnesses(): void + getWitnessJSON(Witness witness): JSONObject + saveCases(): void + getCaseJSON(Case cases): JSONObject String searchType): boolean
- printCases(ArrayList<Case> cases): void
- printPerson(): void
- printCriminal(): void