Design Report for Project 1:

Main.py

- Calls all additional classes
- Runs the main program
- Continues to run until q is selected
- chooseMainMenuOption()
 - choose q or a number to start functionality

userInput.py

- Used to get correct user input for most functions
- Used in most classes

person.py

- Used in functions to handle details about a person
- isValidGender(gender)
 - Takes their gender as a param
 - Checks for correct gender
- checkExists(conn, sin)
- Take the database URL string (conn) and perso ns SIN as params $\,$
 - Checks if the user exists or not by using the COUNT feature
- register(conn, sin)
 - Takes database URL string as param conn
 - Takes person's SIN as param sin
- If person does not exist, function to reigste r person
- To quit at anytime press control d to creat e a keyboard interupt error

vehicle.py

- used in classes to handle vehicle details
- checkExists(conn, serial)
 - Takes database URL string as param conn
 - Takes serial # of vehicle as param serial
 - checks if serial number of vehicle exists
- hasOwner(conn, serial, sin)
 - Takes database URL string as param conn
 - Takes serial # of vehicle as param serial

- Takes sin of owner as param sin
- Check the owner of the vehicle
- hasPrimaryOwner(conn, serial, sin)
 - Takes database URL string as param conn
 - Takes vehcile serial # as param serial
 - Takes sin of primary owner as param Sin
 - Checks the vehicle for the primary owner of i

newVehReg.py

t.

- Used to register a new vehicle
- setupVehicleReg(conn)
- Called by main to start regiserty of a vehicl e
- At any time can be canceled by keyboard interruption
- vehicleRegPart(conn)
 - Called by setupVehicle
 - Gets a unique serial #
 - Makes sure vehicle type exists
 - Gets all other information about the vehicle
 - Returns to the serial number
- addOwnersPart(conn)
 - Called after vehicleRegPart
- Takes the serial number returned by vehicleRe gPart as a param
 - Adds owners to vehicle
 - Can add primary as well as non-primary
- Note all functions can be canceled by keyboard in teruption

newDriver.py

- Used to enter in a new driver
- calls newDriverImpl
- Gets the information needed to set up a licen ce
 - Makes sure licence does not already exists
 - Inputs a picture if possible

autoTran.py

- Used to enter an auto transaction

- Deletes old owner and adds the new owner
- performTransaction
 - Called by main to start the auto transaction
- performTransactionImpl
 - Called by performTransaction
 - Gets the information from the vehicle
 - Gets the Seller and the buyers SIN
 - Has checks for each to make sure they exist
 - Deletes the current owners
 - Add the buyers as the owners

violationRec.py

- Used to handle recording a ticket
- called by main
- Calls recordTicketImpl to record ticket
- recordTicketImpl gathers the information need ed to record ticket
 - Gets the serial number of vehicle
- If input left blank after serial number, viol ator will be primary owner

searching.py

- handles option 5 searches
- serachOption
 - called by main to set up which search to use
- personalInfo
 - Called by searchOption to handle searching by licence or name
- personalByLicence
 - Called by personalInfo to handle searching by licence
- personalByName
 - Called by personalInfo to handle searching by name
- violationRecords
- Called by searchOption to handle violation se arches
- violationBySin
 - called by violationRecords to search by sin
- violationByLicence
- called by violationRecrods to search by Licen ce

- vehicleHist
- Called by searchOptions to handle searching by vehicle
- vehicleHistSearch
- called by vehicleHist to search for particular vehicles history