UsersList

-usersFileName: String
-users: ArrayList<User>

+UsersList()
-saveToCSV()
+deleteUser()
+addUser()
+getUser()
+getUserByName()
+userExists()

User

-name: String
-password: String

+User()
+getName()
+setName()
+getPassword()
+setPassword()
+equals()

PropertyOwner

+PropertyOwner()
+getBalanceStatement()
+equals()

Administrator

+Administrator()

Appplication

Main

~tms: TaxManagementSystem

-logInClicked()
-createAccountClicked()
-changePasswordClicked()
-registerPropertyFinishClicked()
-viewPropertiesClicked()
-balanceStatementsClicked()
-viewBalanceStatementClicked()
-payPropertyTaxClicked()
-payPropertyTaxOnProperty()
+main()
+start()

TaxManagementSystem

-usersList: UsersList
-propertiesList: PropertiesList
-paymentList: PaymentList

+TaxManagementSystem()
+attemptLogin()
+createAccount()
+getLoggedInUser()
+changeCurrentUserPassword()
+registerProperty()
+getOwnedPropertiesListString()
+getOwnedProperties()
+payPropertyTax()
+getBalanceStatement()
+getTaxDataForPropertyAddress()
+getTaxDataForPropertyOwner()
+getOverduePropertyTaxArea()
+getPropertyTaxStatistics()

CmdLineInterface

- scan: Scanner
~Tms: TaxManagementSystem

-chooseFromList()
-chooseProperty()
-inputAddress()
-inputRoutingKey()
-inputEircode()
-inputDouble()
+run()
+CmdLineInterface()

CSVHandler

+loadCSV()
+writeCSV()

PropertyTax

-taxFileName: String
-stringData: ArrayList<String[]>
-taxRate: double[]
-locationTaxCal: double[]
-flatChargeCal: double[]
-fixedCostCal: double[]
-overduePenalty[]

+loadPropertyTax()
+getOverdueTaxForYear()
+getYearlyTaxDue()
-saveToCSV()
-taxRateSaveToCSV()
-locationTaxSaveToCSV()
-flatChargeSaveToCSV()
-fixedCostSaveToCSV()
-overduePenaltySaveToCSV()

PropertiesList

-propertiesFileName: String
-properties: Arraylist<Property>

+PropertiesList()
-saveToCSV()
+getProperties()
+addProperty()
+getPropertiesByEircode()
+getPropertiesByOwner()
+getPropertyByAddress()

Property

-principalResidence: Boolean
-estimatedMarketValue: double
-propertyOwnerName: String
-address: Address
-yearAdded: int

+Property()
+getCurrentAndOverdueTax()
+getYearAdded()
+getAddress()
+getPropertyOwner()
+getEstimatedMarketValue()
+getPrincipalResidence()
+equals()
+toString()

Address

-firstLine: String
-secondLine: String
-city: String
-county: String
-country: String
-LocationType: String
-eircode: Eircode

+Address()
+getEircode()
+getFirstLine()
+getSecondLine()
+getCity()
+getCounty()
+getLocationType()
+toString()
+equals()

Eircode

-code: String

+Eircode()
+fromString()
+getCode()
+getRoutingKey()
+getUniqueId()

PaymentList

-paymentFileName: String
-payments: ArrayList<Property>

-saveToCSV()
+PaymentList()
+getPayments()
+addPayment()
+getOwnerPayments()
+getPropertyPayments()
+getPropertyPaymentsOnYear()

Payment

- yearPaid: int
-amount: double
- propertyAddress: Address
-ownerName: String

+Payment()
+getYearPaid()
+getAmount()
+getPropertyAddress()
+getOwnerName()