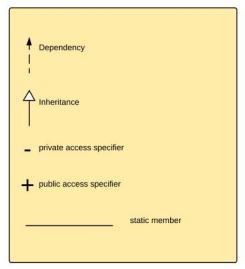
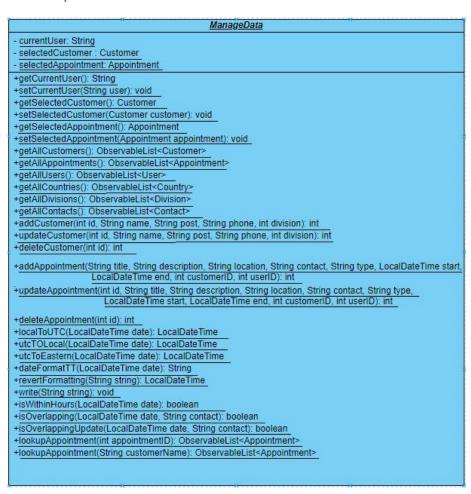
UML Legend



This document features a description of my UML(Unified Modeling Language) class diagram. My class structure features & core classes. ManageData.java class adopts a DOA model, and manipulates the data for the applications core functionalities. The remaining classes are Java objects stored within the database and expressed within the GUI.



ManageData is located within the DAO package. This class contains the bulk of the functionality of the application including implementing a search function, adding, updating and deleting data, getting data lists and converting/validating time zones. All of the attributes and functions in this class are static. This classes dependencies are the Appointment class and the Customer class.

```
Customer
-customerID: int
-customerName: String
-customerAddress: String
-postalCode: String
-phoneNumber: String
-createDate: LocalDateTime
-createdBy: String
-lastUpdate: Timestamp
-lastUpdatedBy: String
-divisionID: int
+Customer(int customerID, String customerName, String customerAddress, String postalCode,
           String postalCode, int divisionID)
+getCustomerID() ; int
+setCustomerID(int id) : void
+getCustomerName(): String
+setCustomerName(String customerName): void
+getPostalCode(): String
+setPostalCode(String postalCode): void
+getPhoneNumber(): String
+setPhoneNumber(String phoneNumber) : void
+getCreateDate(): LocalDateTime
+setCreateDate(LocalDateTime createDate) : void
+getCreatedBy(): String
+setCreatedBy(String createdBy): void
+getLastUpdate(): Timestamp
+setLastUpdate(Timestamp lastUpdate) : void
+getLastUpdatedBy(): String
+setLastUpdatedBy(String lastUpdatedBy): void
+getDivisionID(): int
+setDivisionID(int id) : void
```

Customer class is located within the Model package. This class contains attributes and operations associated with the Customer object. Customers are stored within the MySql database. This class's dependency is on the Division class.

```
Division
-divisionID: int
-division: String
-createDate: LocalDateTime
-createdBy: String
-lastUpdate: Timestamp
-lastUpdatedBy: String
-countryID: int
+Division(int divisionID, String division, LocalDateTime createDate, String
         createdBy, Timestamp lastUpdate, String lastUpdatedBy, int countryID)
+getDivisionID(): int
+setDivisionID(int id) : void
+getDivision(): String
+setDivision(String division): void
+getCreateDate(): LocalDateTime
+setCreateDate(LocalDateTime createDate): void
+getCreatedBy(): String
+setCreatedBy(String createdBy) : void
+getLastUpdate(): Timestamp
+setLastUpdate(Timestamp lastUpdate): void
+getLastUpdatedBy(): String
+setLastUpdatedBy(String lastUpdatedBy) : void
+getCountryID(): int
+setCountryID(int ID) : void
```

The Division class is located within the Model package. This class contains attributes and functions associated with the Division object. Divisions are stored within the MySql database. This class has a dependency on the Country class.

```
Country
-countryID : int
-country: String
-createDate: LocalDateTime
-createdBy: String
-lastUpdate: Timestamp
-lastUpdatedBy: String
+Country(int countryID, String country, LocalDateTime createDate, String
         createdBy, Timestamp lastUpdate, String lastUpdatedBy)
+getCountryID(): int
+setCountryID(int countryID): void
+getCountry(): String
+setCountry(String country): void
+getCreateDate(): LocalDateTime
+setCreateDate(LocalDateTime createDate): void
+getCreatedBy(): String
+setCreatedBy(String createdBy): void
+getLastUpdate(): Timestamp
+setLastUpdate(Timestamp lastUpdate) : void
+getLastUpdatedBy(): String
+setLastUpdatedBy(String lastUpdatedBy): void
```

The Country class is location is in the Model package. This class contains attributes and functions associated with the Country object. Countries are stores within the MySql Database. This class has no dependencies.

```
Appointment
-appointmentID: int
-title: String
-description: String
-location: String
-type: String
-start: LocalDateTime
-end: LocalDateTime
-createDate: LocalDateTime
-createdBy: String
-lastUpdate: Timestamp
-lastUpdatedBy: String
-customerID: int
-userID: int
-contactID: int
-contact: String
+Appointment(int appointmentID, String title, String description, String location, String type, LocalDateTime start, LocalDateTime end, LocalDateTime createDate, String createdBy, Timestamp lastUpdate, String lastUpdatedBy, int customerID, int userID, int contactID)
+getAppointmentID(): int
+setAppointmentID(int id): void
+getTitle(): String
+setTitle(String title); void
+getDescription(): String
+setDescription(String description): void
+getLocation(): String
+setLocation(String location): void
+getStart(): LocalDateTime
+setStart(LocalDateTime date): void
+getEnd(): LocalDateTime
+setEnd(LocalDateTime date): void
+getCreateDate(): LocalDateTime
+setCreateDate(LocalDateTime date): void
+getCreatedBy(): String
+setCreatedBy(String createdBy): void
+getLastUpdate(): Timestamp
+setLastUpdate(Timestamp date): void
+getLastUpdatedBy(): String
+setLastUpdatedBy(LastUpdatedBy: String): void
+getCustomerID(): int
+setCustomerID(int id): void
+getUserID(): int
+setUserID(int userID) : void
+getContactID(): int
+setContactID(int contactID) : void
+getContact(): String
+setContact(String contact) : void
```

The Appointment class is located within the Model package. This class contains attributes and functions associated with the Appointment object. Appointments are stores in the database. This class has dependencies on the User class, and the Contact class.

```
User
-userID: int
-userName: String
-password: String
-createDate: LocalDateTime
-createdBy: String
-lastUpdate: Timestamp
-lastUpdatedBy: String
+User2(int userID, String userName, String password, LocalDateTime
         createDate, String createdBy, Timestamp lastUpdate, String lastUpdatedBy)
+getUserID(): int
+setUserID(int userID) : void
+getUserName(): String
+setUserName(String userName) : void
+getPassword(): String
+setPassword(String password): void
+getCreateDate(): LocalDateTime
+setCreateDate(LocalDateTime createDate) : void
+getCreatedBy(): String
+setCreatedBy(String createdBy) : void
+getLastUpdate(): Timestamp
+setLastUpdate(Timestamp lastUpdate) : void
+getLastUpdatedBy(): String
+setLastUpdatedBy(String lastUpdatedBy) : void
```

The User class is located within the Model package and contains functions and attributes associated with the User object. User objects are stored in the database. This class has no dependencies.

```
-contactID: Int
-contactName: String
-email: String
+Contact(int contactID, String contactName, String email)
+getContactID(): int
+setContactID(int contactID): void
+getContactName(): String
+setContactName(String contactName): void
+getEmail(): String
+setEmail(String email): void
```

The Contact class is located within the Model package and contains functions and attributes associated with the Contact object. Contact objects are stored in the database. This class has no dependencies.

```
Stakeholder

-contactID: int
-contactName: String
-email: String
+Contact(int contactID, String contactName, String email)
+getContactID(): int
+setContactID(int contactID): void
+getContactName(): String
+setContactName(String contactName): void
+getEmail(): String
+setEmail(String email): void
```

Stakeholder
+Stakeholder(int contactID, String contactName, String email)

The Stakeholder class is located within the Model package and contains functions and attributes associated with the stakeholder object. This class inherits from the Contact class. Class has no dependencies.