|  |  |
| --- | --- |
| **Class name:** User | |
| **Brief description:** Has information of a user | |
| **Attributes (fields)** | **Attribute Description** |
| UserName | Contains user name |
| UserID | Contains user ID |
| UserPin | Contains user pin number for security system |
| UserPhoneNumber | Contains user phone number for use with automated text message |
| UserEmail | Contains user email for use with automated email message |
| PrivilegeLevel | Contains user privilege level |
| **Methods (operations)** | **Method Description** |
| GetSetEmail | Gets and sets user email value for DB |
| GetSetUserName | Gets and sets user name value for DB |
| GetSetUserPin | Gets and sets user PIN value for DB |
| GetSetUserPhone | Gets and sets user phone value for DB |
| GetSetPrivilegeLevel | Get and set user privilege level |

|  |  |
| --- | --- |
| **Class name:** Event | |
| **Brief description:** Has information of a user | |
| **Attributes (fields)** | **Attribute Description** |
| ID |  |
| Type |  |
| Time |  |
| Picture |  |
| Disarmed User |  |
| Sensors Triggered [] |  |
| **Methods (operations)** | **Method Description** |
| GetType |  |
| GetTime |  |
| GetPicture |  |
| GetDisarmedUser |  |
| GetSensorsTriggered |  |

|  |  |
| --- | --- |
| **Class name:** AlarmDevice | |
| **Brief description:** Has information of a user | |
| **Attributes (fields)** | **Attribute Description** |
| MotionSensors[] | Set of motion sensors |
| Camera |  |
| Keypad |  |
| Speaker |  |
| **Methods (operations)** | **Method Description** |
| GetSetState(State) |  |

|  |  |
| --- | --- |
| **Class name:** MotionSensor | |
| **Brief description:** Has information of a user | |
| **Attributes (fields)** | **Attribute Description** |
| Address |  |
| State |  |
| **Methods (operations)** | **Method Description** |
| GetState() |  |

|  |  |
| --- | --- |
| **Class name:** Security System | |
| **Brief description:** | |
| **Attributes (fields)** | **Attribute Description** |
| EventList |  |
| Users [] |  |
| Alarm Device |  |
| DB Connector |  |
| Sessions[] |  |
| **Methods (operations)** | **Method Description** |
| GetEventList(args) |  |
| GetSetAlarmState |  |
| GetUser() |  |
| CreateUser() |  |
| ModifyUser() |  |

|  |  |
| --- | --- |
| **Class name:** Camera | |
| **Brief description:** | |
| **Attributes (fields)** | **Attribute Description** |
| Address |  |
| **Methods (operations)** | **Method Description** |
| TakePicture() |  |

|  |  |
| --- | --- |
| **Class name:** Keypad | |
| **Brief description:** | |
| **Attributes (fields)** | **Attribute Description** |
| Address |  |
| **Methods (operations)** | **Method Description** |
| ReadInput() |  |

|  |  |
| --- | --- |
| **Class name:** Speaker | |
| **Brief description:** | |
| **Attributes (fields)** | **Attribute Description** |
| Address |  |
| **Methods (operations)** | **Method Description** |
| PlaySound(args) |  |

|  |  |
| --- | --- |
| **Class name:** VisualOutput | |
| **Brief description:** | |
| **Attributes (fields)** | **Attribute Description** |
| Address |  |
| **Methods (operations)** | **Method Description** |
| DisplayMessage(message) |  |

|  |  |
| --- | --- |
| **Class name:** DBConnector | |
| **Brief description:** | |
| **Attributes (fields)** | **Attribute Description** |
| Host |  |
| User |  |
| Password |  |
| Port |  |
| **Methods (operations)** | **Method Description** |
| Enter | Creates connection returns a cursor object |
| Exit | Closes connection and destroys cursor object |

|  |  |
| --- | --- |
| **Class name:** EventList | |
| **Brief description:** Used to view the events in the database | |
| **Attributes (fields)** | **Attribute Description** |
| Events[] | A list of events |
| User | Contains info of the user of the event list |
| DBConnector | Creates a db connector object |
| **Methods (operations)** | **Method Description** |
| GetEvents(args) | Gets a set of Events based on the filter arguments passed in |
| ClearEvents() | Clear all Events in the list |
| DeleteEvent() | Remove Event from the list |

|  |  |
| --- | --- |
| **Class name:** User Session | |
| **Brief description:** | |
| **Attributes (fields)** | **Attribute Description** |
| User |  |
| TokenID | Unique token for the session |
| ExperationTime |  |
| StartTime |  |
| Active |  |
|  |  |
| **Methods (operations)** | **Method Description** |
| GetUser |  |
| GetTokenID |  |
| GetExperationTime |  |
| Deactivate |  |