1. User Class

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Visibility |
| id | String | protected |
| firstName | String | protected |
| middleName | String | protected |
| lastName | String | protected |
| phoneNumber | String | protected |

Attributes

Description

* Id – a unique identifier for users
* firstName – first name of user
* middleName – middle name of user
* lastName – last name of user
* phoneNumber – phone number of user

1. UserInformation Class

Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Visibility |
| userID | String | private |
| userPassword | String | private |
| userRole | String | private |

Description

* userID – a unique identifier of a user
* userPassword – a secret phrase a user uses to gain access in the system
* userRole – role of user (like Customer, Administrator, or Driver)

1. Bus class

Attributes

|  |  |  |
| --- | --- | --- |
| Attributes | Types | Visibility |
| id | String | private |
| route | Route | private |
| driver | Driver | private |
| maxCapacity | Int | private |

Description

* id – unique identifier of a bus
* route – the path from the starting point to the destination of a bus
* driver – driver of a bus
* maxCapacity – number of seats a bus has

1. Route Class

Attributes

|  |  |  |
| --- | --- | --- |
| Attributes | Types | Visibility |
| id | String | private |
| Source | String | private |
| destination | string | private |

Description

* id – unique identifier for a route
* source – starting terminal of a route
* destination – ending terminal of a route

1. Ticket Class

Attributes

|  |  |  |
| --- | --- | --- |
| Attributes | Types | Visibility |
| id | String | private |
| customer | Customer | private |
| bus | Bus | private |
| seatNumber | Int | private |
| dateTime | Timestamp | private |

Description

* id – a unique identifier for a reservation in a bus
* customer – customer that owns the ticket
* bus – the bus of reservation
* seatNumber – number that identifies the seat of reservation
* dateTime – the day and time the ticket is valid to be used

1. Driver Class

Attributes

|  |  |  |
| --- | --- | --- |
| Attributes | Types | Visibility |
| assignedBus | Bus | private |

Description

* assignedBus – the bus the driver is assigned to