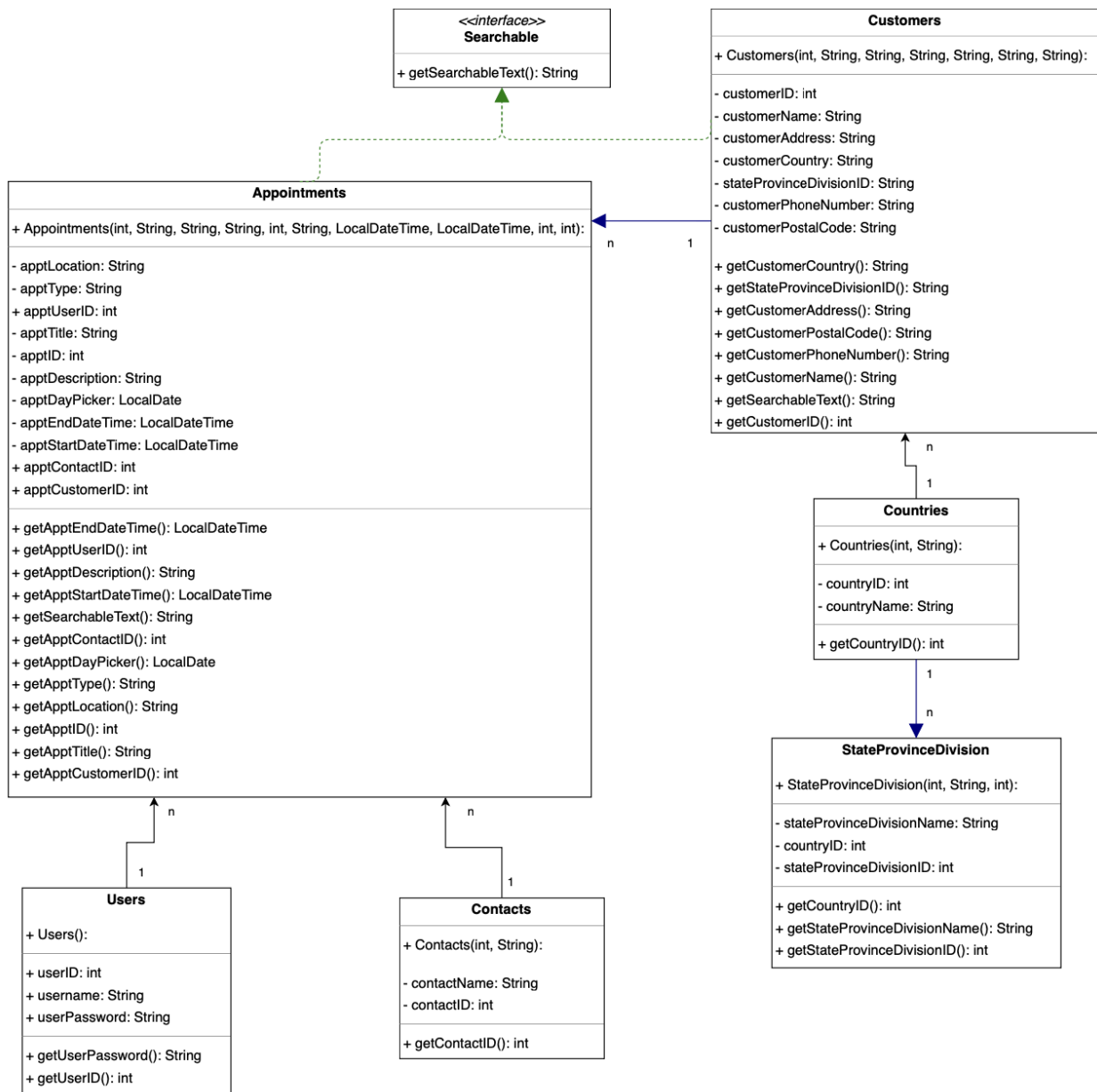


UML Class Design for appointment scheduler



Class Design

A UML diagram serves as a visual blueprint that captures the key elements and relationships within a system. The following UML diagram will highlight the relationships between Appointments, Contacts (Faculty), Customers (Students), and Users (Administrators).

The Appointments class is essential in the system and links with other classes. It implements the Searchable interface for search functionality.

Contacts (also known as Faculty) holds info about contacts (Faculty), identified by contactID and contactName. Contacts have a one-to-many relationship with Appointments where one contact (Faculty) can have multiple appointments.

Customers (also known as Students) contains customer (Student) details, and the Customers class is a one-to-many relationship with Appointments, meaning one customer (Student) can have multiple appointments. Customers also implements the Searchable interface for search functionality.

Users (also known as Administrators, the staff accessing the software) have a one-to-many relationship with Appointments. One User (Administrator) can generate many appointments.

Class methods are noted by the () such as "getApptStartDateTime()" and private methods are noted with a minus sign (-).