**Class**

Represents a Class that a Teacher creates to add Students to. Classes have only one Teacher. A Teacher can create, edit, and delete Classes. setClassName(String) can be used to edit a Class’ name, and the updated Class object can be used to update that Class in the database.

Students can be added to and removed from a Class. A Class can be searched for a particular Student.

**Worksheet**

A Worksheet is created by a Teacher or a Student. When a Worksheet of any type is generated, a Worksheet object is used to represent it. Worksheet contains the information needed to recreate any Worksheet a Teacher or Student has created in the past. Deleting a Worksheet deletes that Worksheet from the corresponding User’s history.

**EncryptedPassword**

Rather than store Users’ passwords as cleartext, we use EncryptedPasswords to store each password securely. Passwords are hashed using a salt, and the hash and salt are stored in EncryptedPassword. All Users have an EncryptedPassword. When a User logs in, the password entered is checked against that User’s EncryptedPassword using checkPassword(String).

**Difficulty**

Represents a difficulty level. There are 3 fixed Difficulties in the database: Beginner, Intermediate and Advanced. A Teacher assigns a Difficulty to a Student. Each Student has a Difficulty. A Student’s Difficulty can be changed using setDifficultyID(int) and using that Difficulty Object to update the database.