

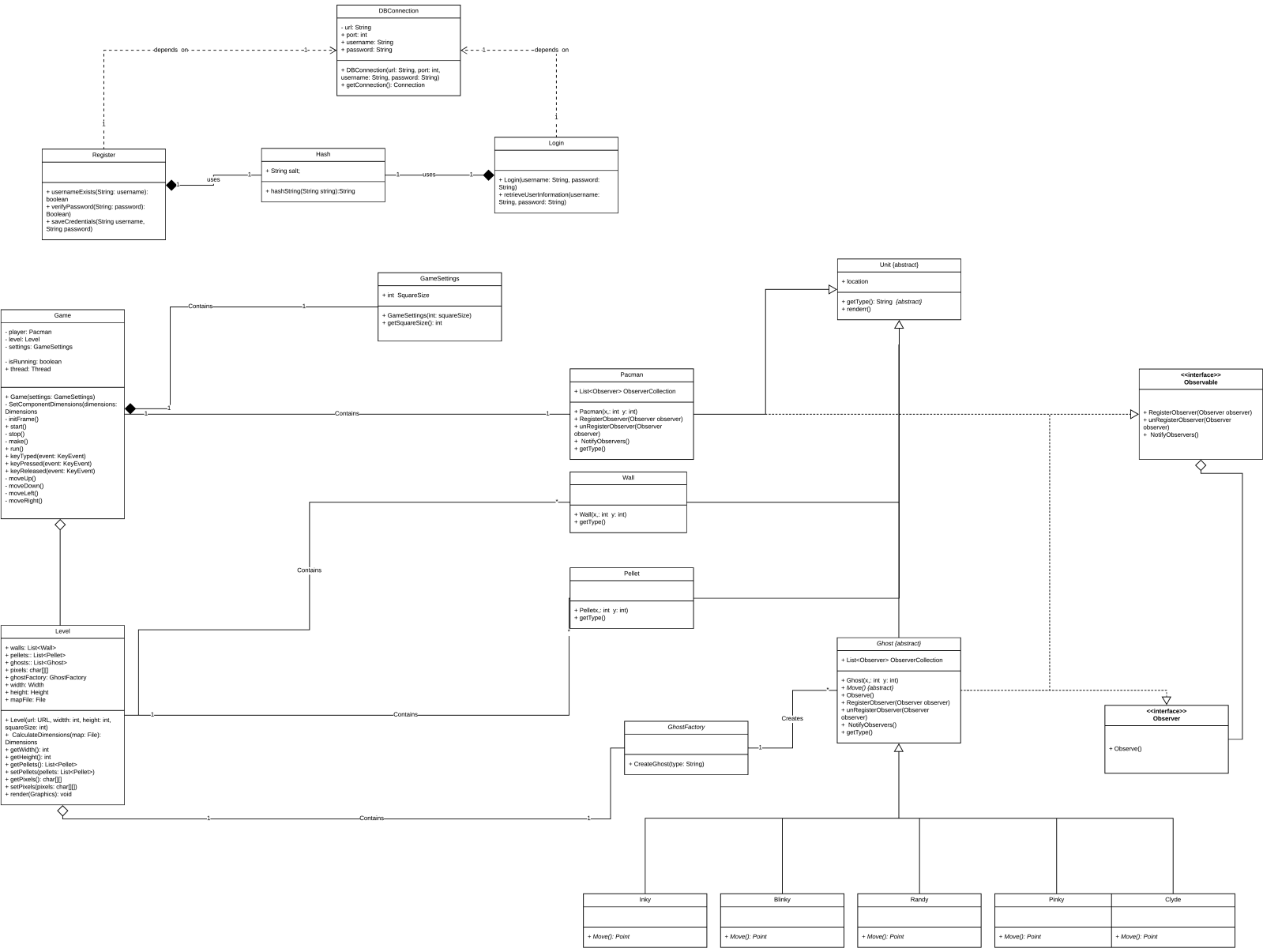
Class diagram

Explanation

In our class diagram we have 3 logical components, the authentication system, The game including the level and the different types of units.

authentication gets handled by a database and to simple login and register classes that make use of a hash class in order to create a hashed version of the password. Each game contains a level, a pacman and gameSettings. When a game gets initialized the level class draws the board, with walls, pellets and different type of ghosts through the ghostFactory. Inside the game class there is a call to the level.getPellets() method in order to see if the game should be ended or not.

Because each ghost has its own moving behaviour, Ghost is an abstract class that lets the subclasses implement their own moving behaviour. In order to move, some of the ghost need to be aware of both the position of pacman and the other ghosts. Therefore both Pacman and Ghost implement an Observable interface in order to broadcast their positions. Ghost implements the Observer interface as well in order to get updated on the positions of other units.



PacMan Sequence Diagram with 3 usecases

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