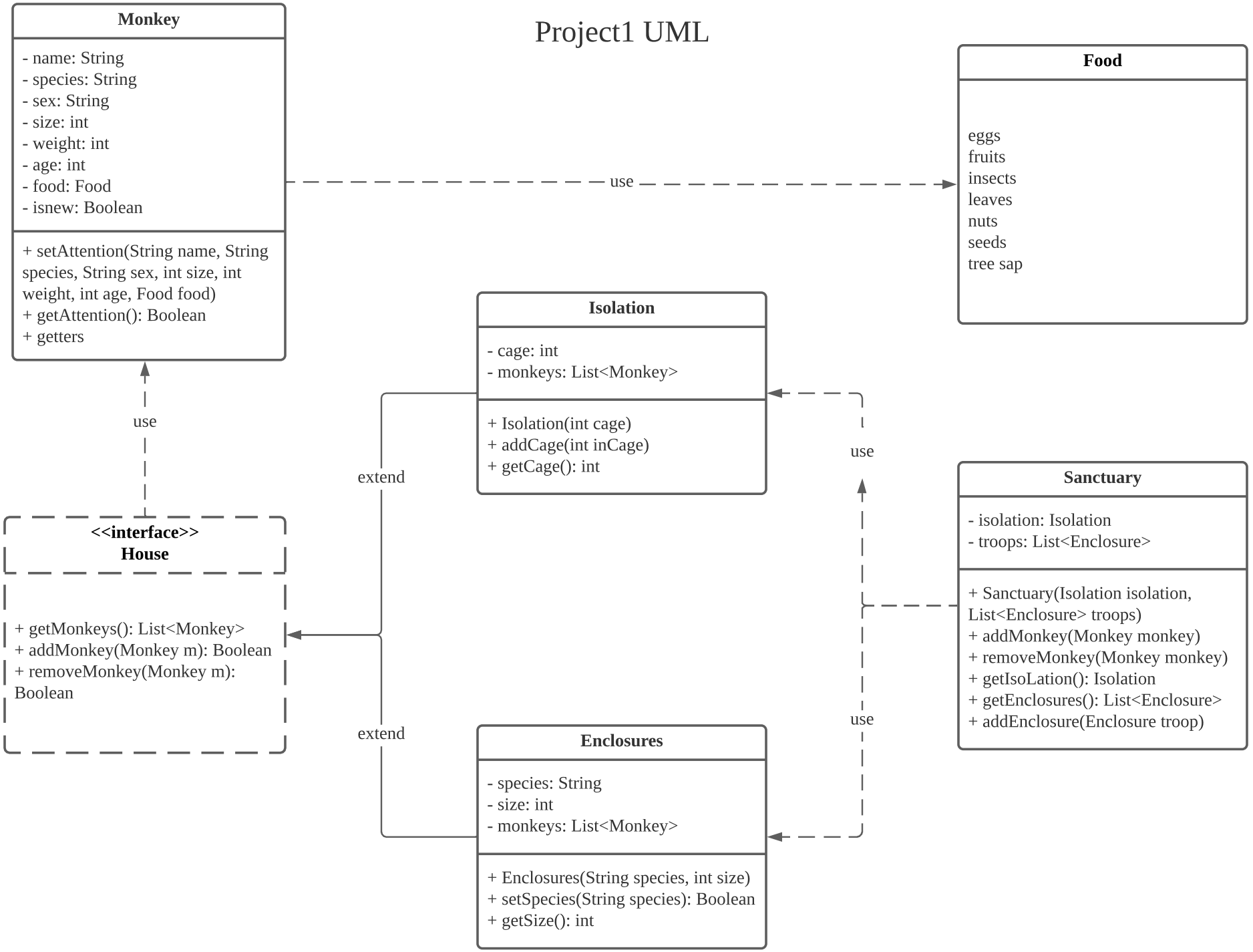
Project1 UML



Test Cases:

Conditions	Examples
Initiate correct args and test a regular monkey	assertThat(monkey, instanceOf(Monkey.class));
Initiate correct args and test Isolation	assertThat(house, instanceOf(Isolation.class));
Initiate correct args and test Enclosures	assertThat(house, instanceOf(Enclosure.class));
Initiate correct args and test Sanctuary	assertThat(system, instanceOf(Sanctuary.class));
Test setter and getter of a monkey	assertEquals("guereza", monkey.getSpecies());
Test list monkeys of Isolation	assertEquals(3, house.getMoneys().size());
Test list monkeys of Enclosures	assertEquals(5, house.getMoneys().size());
Test set species of Enclosures	assertEquals("guereza", enclosure.getSpecies());

Test example:

1. **testAddMonkey(Monkey m)**

a. Determine whether the monkey can successfully add detailed information when entering the Sanctuary class. It should be assigned a name.
b. After adding the monkey, test whether it is assigned to Isolation class.

2. **testGetSpeciesHouse(String)**

a. Test whether it accurately returns the current house of a given species.
b. Determine whether it reports empty if specie is not in any house and testing whether it reports from both Isolation and Enclosure.

3. **testGetAllSpeciesList(String)**

a. The test list should specifically include the exact location of each species in the protected area category (both in enclosures class and in isolation class).
b. Determine whether the list of currently reared species is successfully generated in right order.

4. **testMonkeyMoveEnclosure(Monkey m)**

a. Determine whether the monkey can successfully move from House to Isolation.
b. Test whether it can only be moved when the Isolation class is empty.

5. **testMonkeyMovelsolation(Monkey m)**

a. Once the test monkey is healthy, it can be successfully moved from the Isolation to the Enclosure and testing whether monkeys can only enter an Enclosure that contains their species type.
b. If the Enclosure class is full, testing whether the monkey is assigned to another Enclosure which still has free space.