

Requirements Validation Form

**Discuss the listed user requirements from the requirements specification.
Are there any missing / unnecessary requirements?**

Comments:

The client asks for the following :

- add animal in the system
- add cage in the system
- add keeper
- assign animal to cage
- assign cage to keeper

Looking at the client's requirements, there do not seem to be any unnecessary ones but there are some that could be added to get a more rounded system.

The client mentions 'not updated correctly' but do not detail what need to be updated. Some things that could be added in a further version:

- Animals may need to be move between cages.
- Animals may need to be removed from the system(rehoming, death, etc.)
- Cages may need to be swapped between keepers(absences, attrition)

Does Use Case diagram cover all requirements above?

Comment:

The use case diagram does cover all the five clients' requirements.

For the administrator, it shows the Add Animal and details the checks like name format, duplicates, check mandatory details.

The add keeper also shows the checks and mandatory information that needs to be entered, same for the cages.

The use case diagrams also describe the two operations required from the head keeper: allocate animal to cage and assign cage to keeper.

Does each scenario cover the user requirements – check all extends and includes, does each scenario have a trigger?

Comments:

For the Admin:

Add Animal: triggered with correct documentation. Details input is covered by 3 Includes and errors checked with 3 Extends.

Add Keeper: triggered by a keeper hire. And same as animal adding, similar checks are done and covered by 3 Includes and 3 Extends.

Add Cage: triggered by a cage buy. Use case covers the requirement with a Include and a Extend.

For the Head Keeper:

Assign Animal: triggered by the arrival of a new animal and the buy of cage if needed. The checks are covered with appropriate Includes and Extends

Assign Cage: triggered by the arrival of a new cage and animal. Checks are covered in the use case.

Does the Class Diagram have appropriate number of classes, cover user requirements, and have appropriate associations, attributes, visibility and operations?

Comments:

The class diagram covers the user requirements and also provide a base structure to allow for future improvements.

There is a class for the main entities required : Cage, Animal, Keeper, Assignments

The model also proposes collections classes to store all the information required to manage the animals: EmployeeRoster, AssignmentCollection, Menagerie, CageCollections.

The class diagram also some refinements like inheritance, with Animal and children like Bird and Reptile.

The class diagram shows association, like between the animal and the relevant collections.

It shows cardinalities between classes. Classes attributes and methods also display their visibility.

Does the Interface prototype cover all requirements listed above, simple to use and understand, clear prompts etc.?

Comments:

The prototype covers the requirements. It divides them between an Administrator and Head Keeper menu.

Each covers the need described by the client's brief. The prompts are concise and are very close to the formulations used in the Use Cases.

Options try to provide the needed information to carry the task without overloading the user.

However, there is limits to readability with console applications so it may be interesting to move to a graphical interface to improve it.