**User Stories**

*Nouns highlighted in orange.*

*Actions highlighted in blue.*

As a staff member

In order to have meeting,

I would like to check if the meeting room is available or not (true or false)

As a staff member

In order to have a meeting,

I would like to be able to enter the meeting room and this should make it unavailable

As a staff member

In order to end a meeting

I would like to be able to leave the meeting room and this should make it available again

As a staff member

So that I can avoid interrupting a meeting

I would like an error if I try to use a room that has already been entered

As a staff member

In order to distinguish between meeting rooms

I would like my meeting room to have a name

As an office manager

So that staff can coordinate meetings

I would like to add a meeting room to the office

As an office manager

So that I can manage meeting rooms

I would like to list all the meeting rooms in the office

As a staff member

So that I can see where to have my meeting

I would like to be able to see a list of available rooms in the office

**Investigating the user stories.**

*Take the nouns and actions highlighted in the user stories and fill in the three tables below to help us uncover some more details about them and see how they relate to each other.*

|  |  |
| --- | --- |
| **Nouns** | **Property or owner of property?** |
| Office | owner |
| Meeting Room | owner(owner of name, property of office) |
| Name | property |

|  |  |
| --- | --- |
| **Actions** | **Owned by?** |
| available? | meeting\_room |
| enter\_room | meeting\_room |
| leave\_room | meeting\_room |
| add\_rooom | office |
| list\_available\_rooms | office -> available |

|  |  |
| --- | --- |
| **Actions** | **Property it reads or changes** |
| available? | meeting\_room |
| enter\_room | meeting\_room/available? |
| leave\_room | meeting\_room/available? |
| add\_rooom | office |
| list\_available\_rooms | office -> available |

**Class diagrams for these user stories:**

*Summarise what we have learned from the three tables in the previous section into class diagrams.*

|  |  |
| --- | --- |
| **Class** | MeetingRoom |
| **Properties (instance/class variables)** | Name, available? |
| **Actions (methods)** | available?, enter\_room, leave\_room |

|  |  |
| --- | --- |
| **Class** | Office |
| **Properties (instance/class variables)** | rooms |
| **Actions (methods)** | add\_room, list\_available\_rooms |