# Smart Reservation System

## SwED – Project

*Groupe Pink*

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# SRS-Project

## Introduction

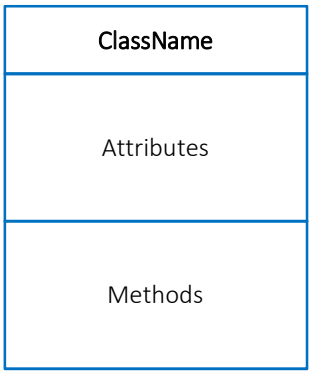
The goal of this project is to learn how to deal with development tools like EGit, Maven, ... and with development processes such as UML, Scrum, .... For this we have to design a *Smart Reservation System (SRS)*.
This program must be suitable for different types of enterprises. Be it sports clubs that rent out halls or hotels, which rent out meeting or overnight rooms, or a university, which wants to book teaching rooms for courses. The system shall allow its users to easily book any type of rooms.
The program has to run on different applications / devices. Users shall access the system via various kinds of applications such as standard Web interfaces and apps running on smartphones or tablets.

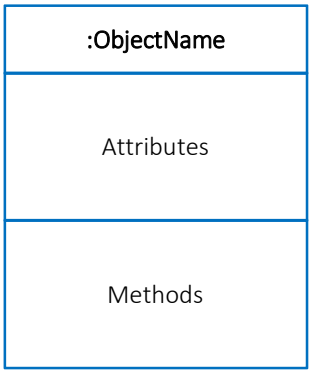
## Requirements of the SR-System

- Reservations must be made easily
- Reservations can be simple time ranges or periodic events
- Time grids shall be made available in order to align reservations with time boundaries of, for example, given schedules.

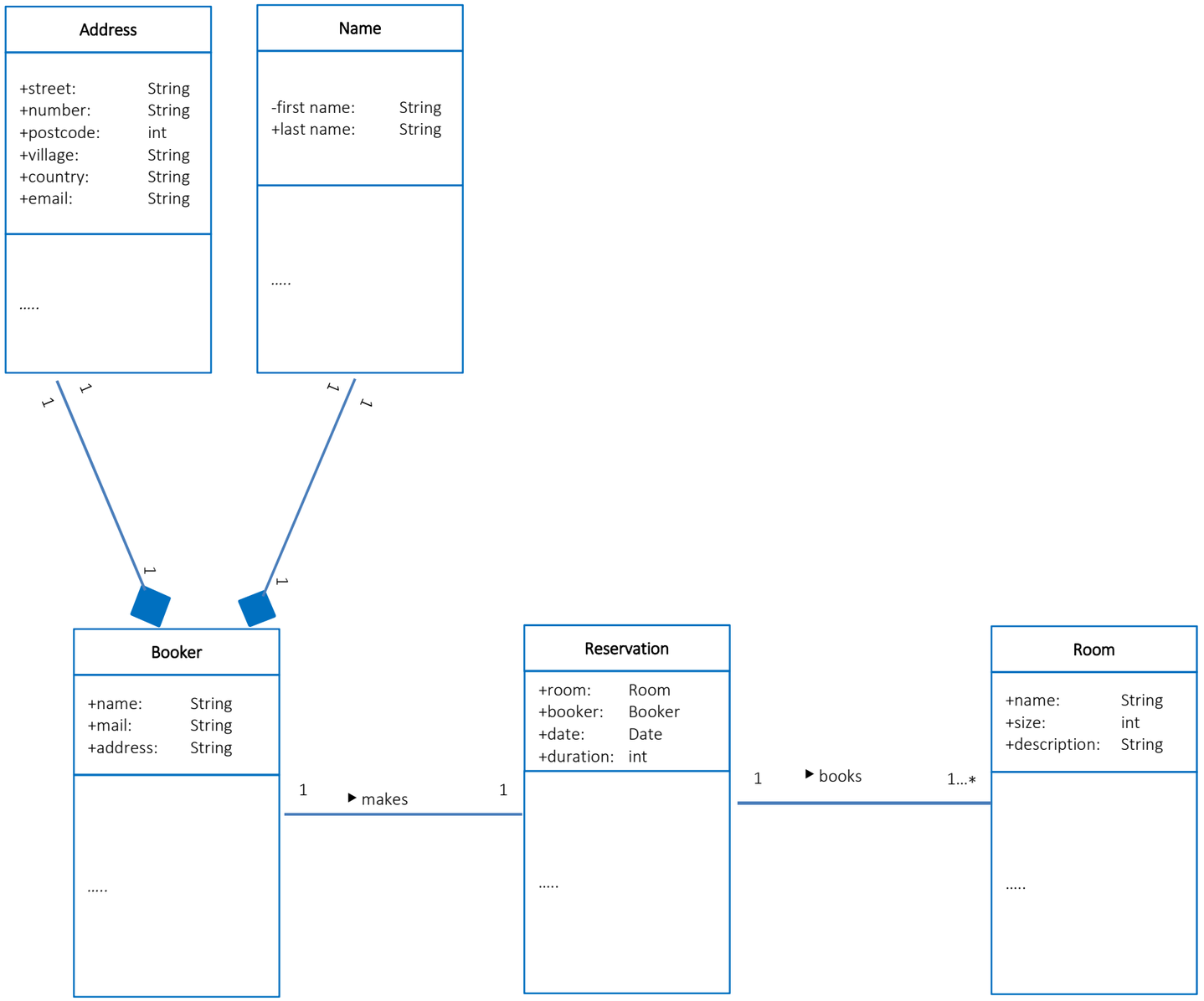
# UML

## Template

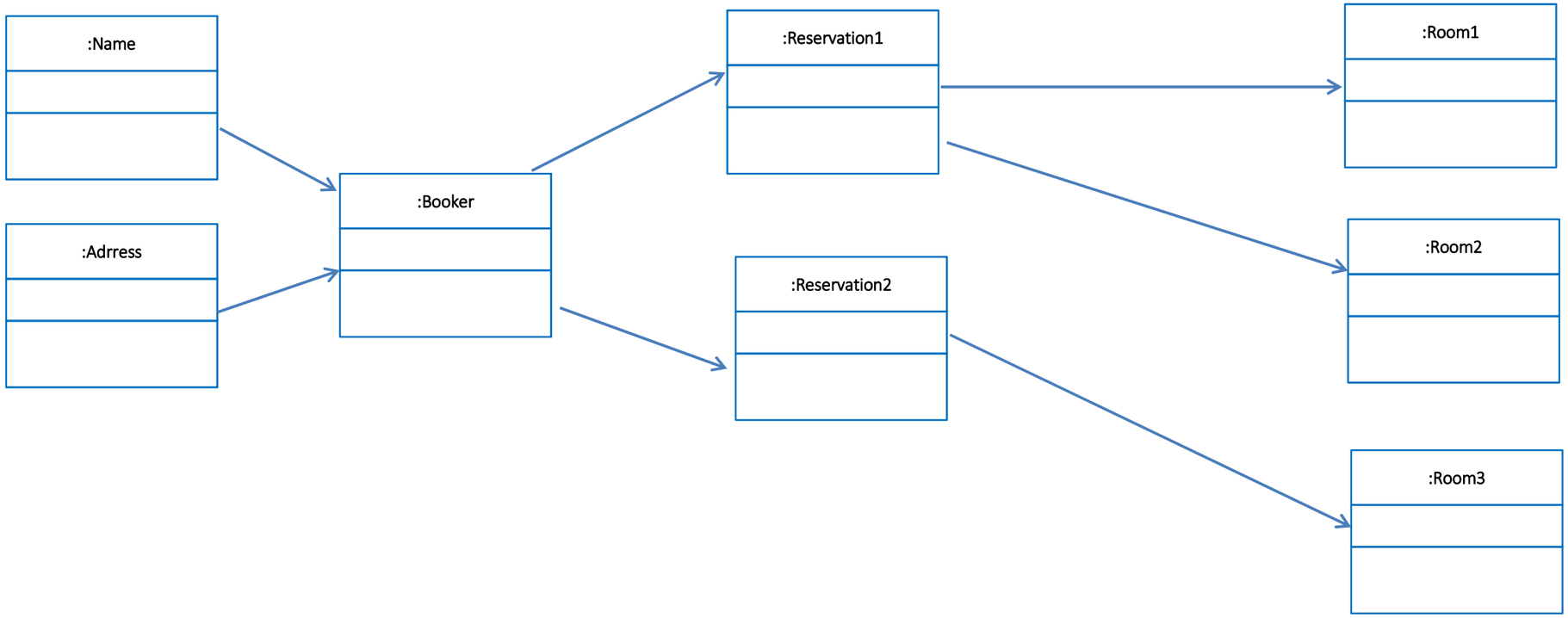


# Class diagram

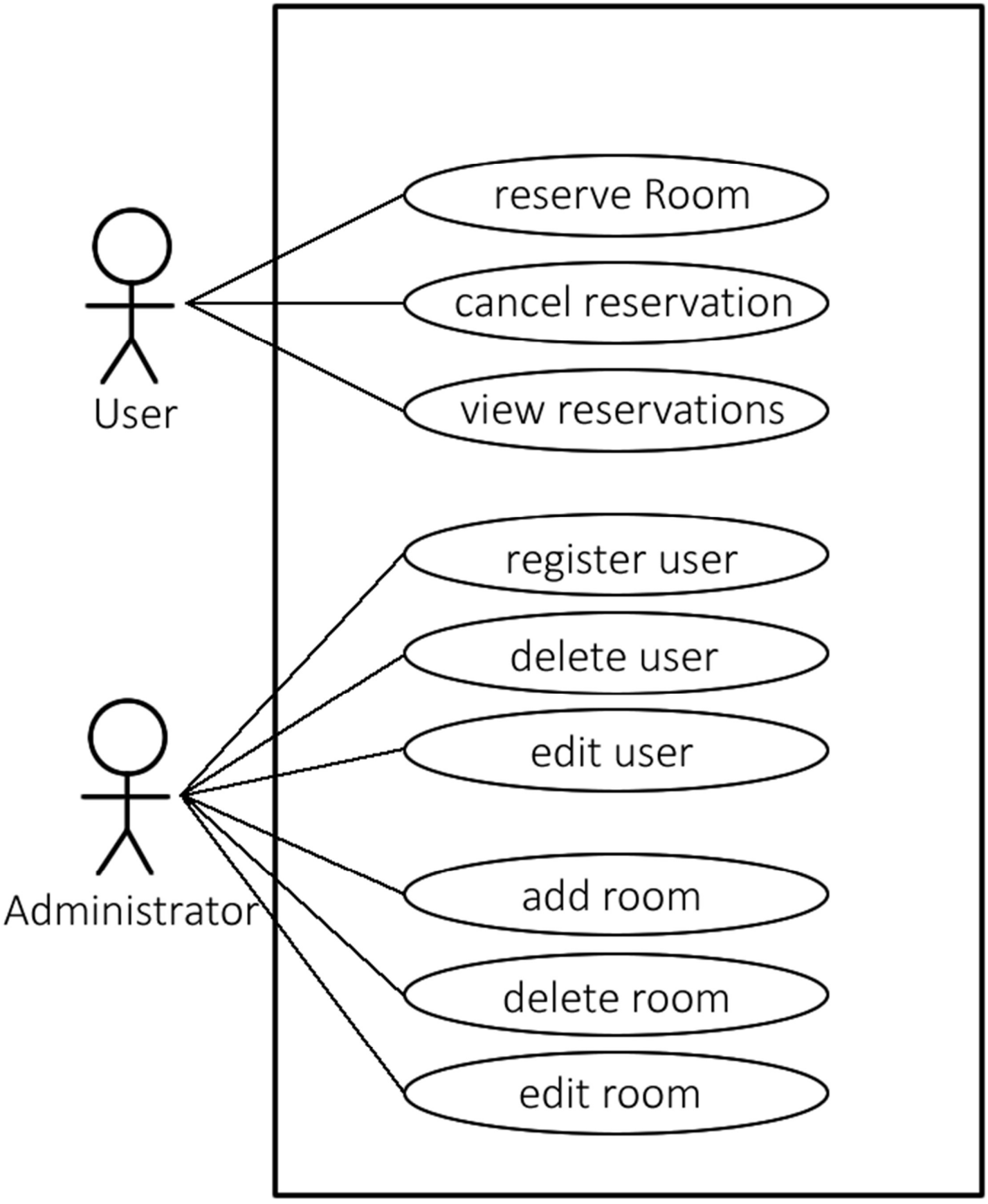


## Object diagram



# User Stories

## Pic



## Description

| Title | Description | Story Points | Priority |
|---|---|---|---|
| Register user | As an administrator, I want to register new users, so they can reserve rooms. | | |
| Delete user | As an administrator, I want to delete a user, so he can't reserve rooms anymore. | | |
| Edit user | As a user, I want to edit my details, so my data is up to date | | |
| Insert room | As an administrator, I want to insert a room, so users can reserve it. | | |
| Delete room | As an administrator, I want to delete a room, so users can't reserve it anymore. | | |
| Edit room | As an administrator I want to edit a room, so users can either reserve again or don't reserve anymore. | | |
| Reserve room | As a user, I want to reserve a room, so a booker can utilize it. | | |
| Cancel room | As a user, I want to cancel a reservation, so it's available again. | | |
| View room reservations | As a user, I want to see all reservations of a room, so I can tell a customer if a desired room is free. | | |
| View booker reservations | As a user, I want to see all reservations from a booker, so I can see if a booker has reserved which room. | | |
| | | | |

# Glossary

## Artefacts

| | |
|---|---|
| Sprint Backlog | Items/stories from Product Backlog (only a few hours) |
| Release Backlog | A number of items from the Product Backlog is selected for each release |
| Product Backlog | Product Owner presents Product Backlog with all relevant user stories. Also the priority is mentioned. |
| User Stories | A written description of a functionality valuable to either a user (or owner) who will use the software system in future. |
| Use Case | Use cases are written stories. |

## Stakeholders

| | |
|---|---|
| Development Team | The Development Team is responsible for developing functionality and for delivering shippable increments of the SRS at the end of each Sprint. Developer Teams are self-managing, self-organizing, and cross-functional and they are responsible for figuring out how to turn Product Backlog into an increment of functionality within an iteration and managing their own work to do so. |
| Scrum Master | Person who builds the relationship between customer and development-team. Scrum Master participate on all Scrum-Meetings.<br>The Scrum Master is responsible for the Scrum process, facilitate the Team and protect the team from outside noise. |
| Product Owner | The Product Owner represents the product's stakeholders and the voice of the customer and is accountable for ensuring that the team delivers value to the business.<br><br>The Product Owner writes customer-centric items (user stories), prioritizes them based on importance and dependencies, and adds them to the Product Backlog. The Product Owner is responsible for maximizing the ROI. The Product Owner priories the Product Backlog |
| Customer | DUE1 |
| Investor | DUE1 |

## User groups

| | |
|---|---|
| *User* | *Persons who will use the SRS and book rooms for the booker.* |
| *Administrator* | *Persons who has the responsibilities of all users and all rooms (register new rooms, edit rooms, delete rooms)* |
| *Booker* | *The person who will book a room.* |