

GOALS, USE CASES AND SCENARIOS

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GOALS

- Goals are objectives which a system should achieve through cooperation of actors in the intended software and in the environment.

Goal Modeling: <http://www.cse.msu.edu/~chengb/RE-491/Lectures/06-goal-modeling.pdf>

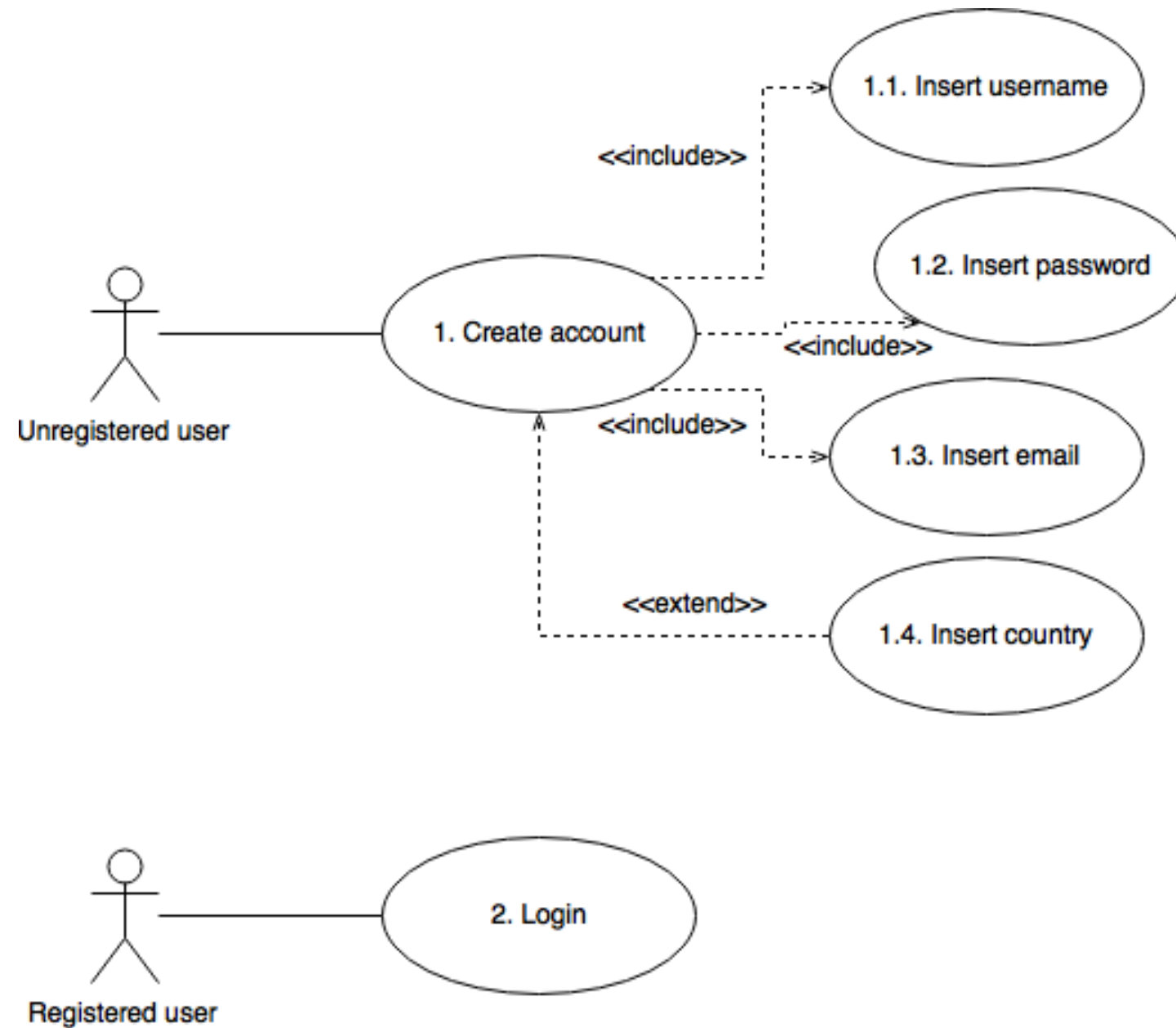
USE CASES



- List of actions or event steps, defining the interactions between a role (actor) and a system, to achieve a goal.
- The actor can be human or other external system. Represents a specific class of users.
- Represent missions or stakeholders goals.
- Use case analysis is an important and valuable requirement analysis technique that has been widely used in modern software engineering since its formal introduction by Ivar Jacobson.
- Model with intended functions that serves as a contract between the client and the responsible for the development. Allows to indicate which requirements are required to develop the solution.

USE CASES - MODEL

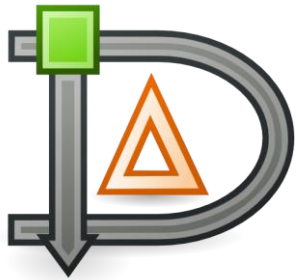




SCENARIOS

- A scenario describes a concrete example of satisfying or failing to satisfy a goal (or set of goals).
- A scenario typically defines a sequence of interaction steps executed to satisfy the goal and relates these interaction steps to the system context.
- They are informal, narrative, and concrete descriptions of hypothetical interactions between the software and its environment.

TOOLS – USE CASE MODELING



Dia



Visio



Draw.io



PlantText

EXERCISE

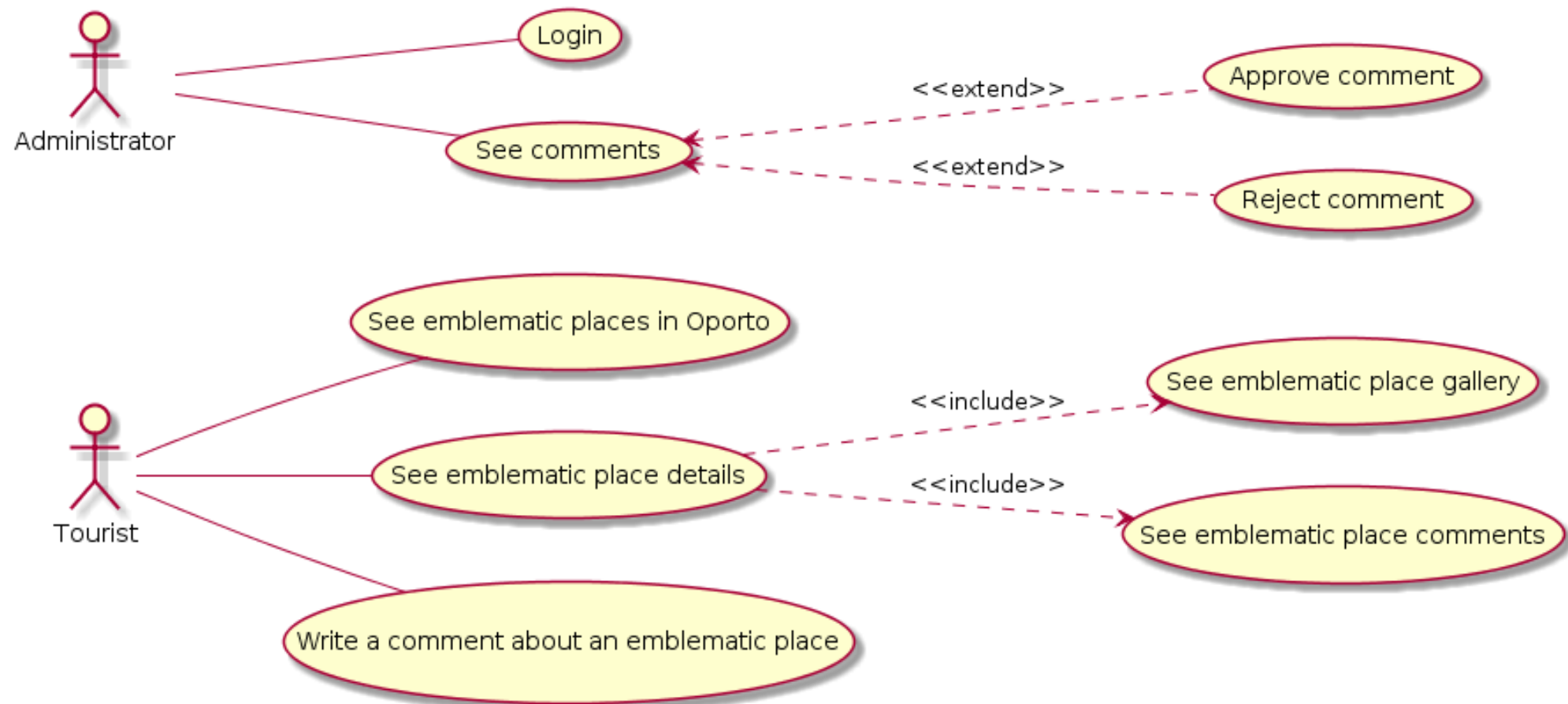
José aims to create a website for tourists in Oporto. His aim is that tourists will be able to see a list of the most emblematic locations, through images. By clicking on one of these images, the user will see another page with several photos and some information about that particular location. Furthermore, the user can write comments about that location. Those comments will only appear after administrator's acceptance. For this, the administrator must be authenticated.

1. Identify José goals for the system.
2. Draw the system use cases model.
3. Write a scenario that validates the identified goals.

EXERCISE – SOLUTION (I)

- Show emblematic locations in Oporto.
- Show emblematic location details, photo gallery and comments.

EXERCISE – SOLUTION (2)



EXERCISE – SOLUTION (3)

António wants to visit Oporto's most emblematic places. He accesses the website and navigates through a list of places, identified by the name and photo. He clicks on a place from the list in order to view details about it. The website presents the details page with some useful information, like the address and attractions. A photo gallery is also displayed. António has read the comments about the place and decided to visit that emblematic location. After his visit, he wrote a comment about its experience. Meanwhile, Ana (one of the website administrators) checked that she had a comment to review. She decided to approve the comment from António.