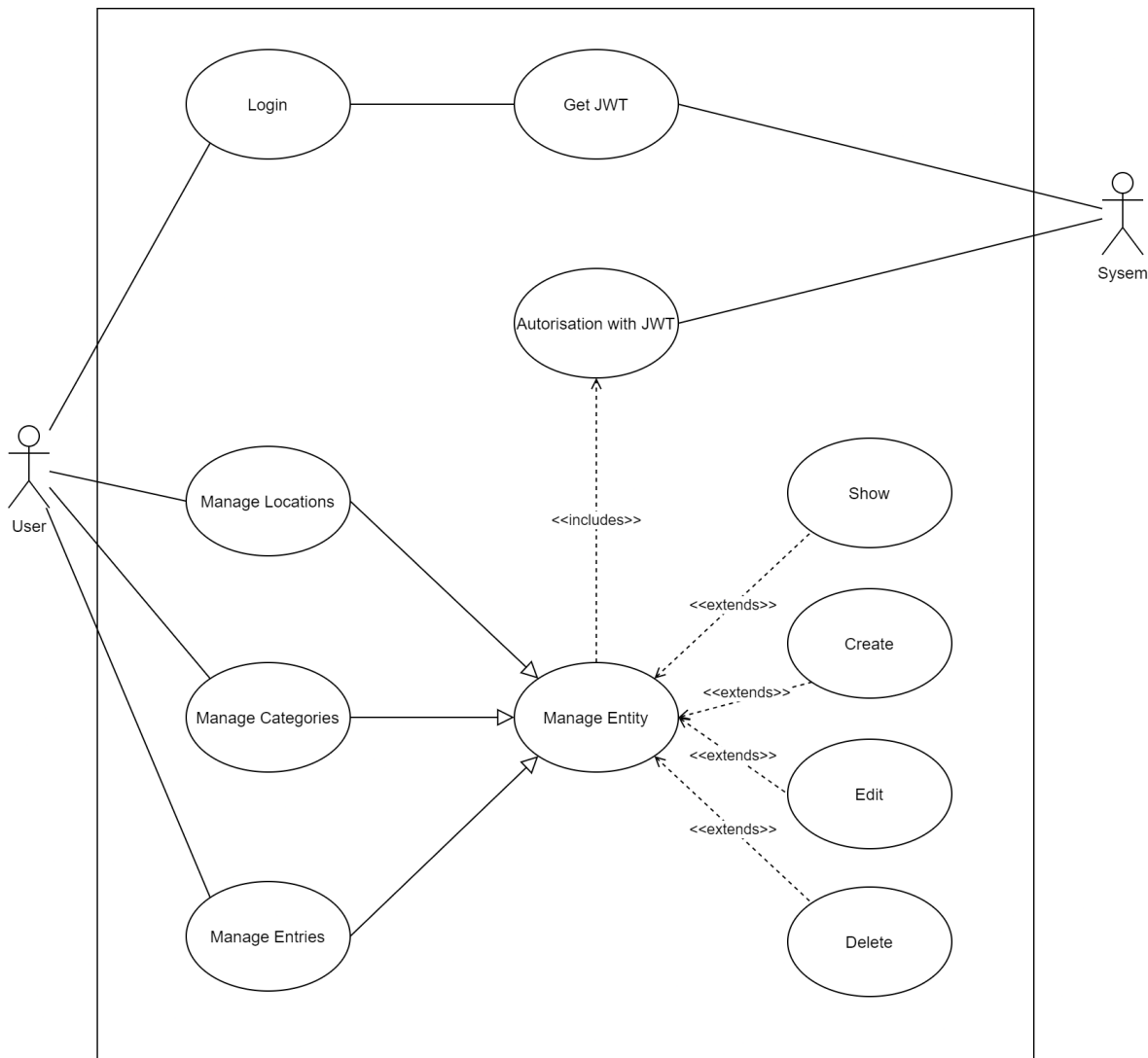


This document is the main plan for upcoming changes and contains all necessary information and diagrams stated in the assignment.

Use-Case Diagram



Login

When the user logs in, the application receives a JSON Web Token (JWT) which it then uses for authorisation on each REST request.

Manage Locations, Categories, Entries

These cases all inherit the [Manage Entity](#) case. The case is listed below and all extending / including cases will also be inherited.

Manage Entity

The Manage Entity contains the main cases for inheriting cases. It's extended by the following cases:

- **Show:** Returns all available entities
- **Create:** Creates a new entity
- **Edit:** Edits/Updates the entity
- **Delete:** Deletes the entity

Non-functional requirements

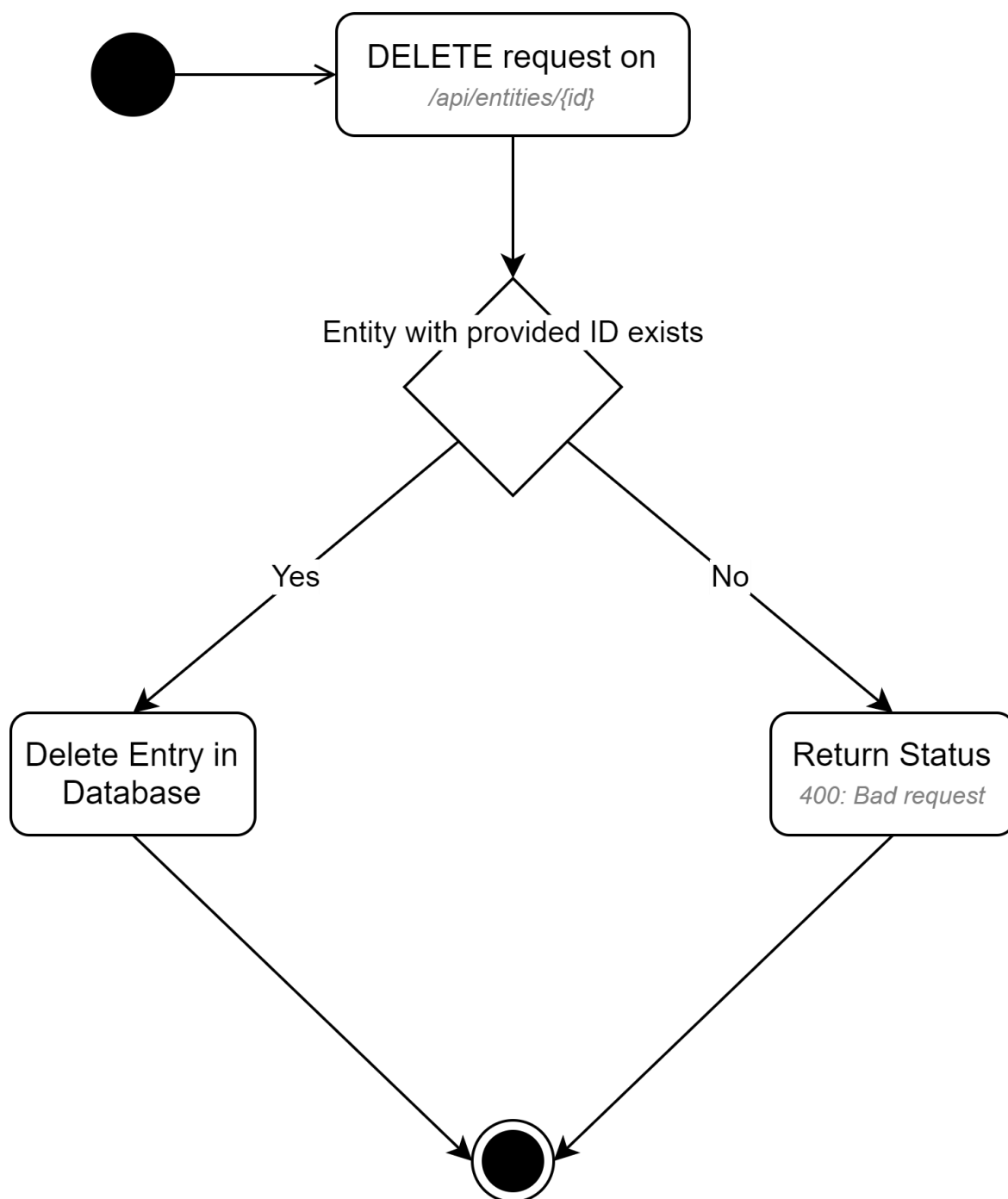
- **Security:** Entities should only be able to be created with a JWT token that has the correct authorisation.

- **Data Consistency:** The API should only accept correct and possible data in the correct formats. If the provided data is faulty or incomplete a 401 Bad Request error should be sent back as response.
- **Performance:** The system should be able to handle multiple requests at a time, so more than one user can use the software simultaneously.
- **Easy-to-use:** The REST API should not be overcomplicated and only contain the necessary interfaces. Difference requests for similar things should be accessible from the same URL. The request URL's should all follow the same style (*naming-convention*).

Activity Diagram

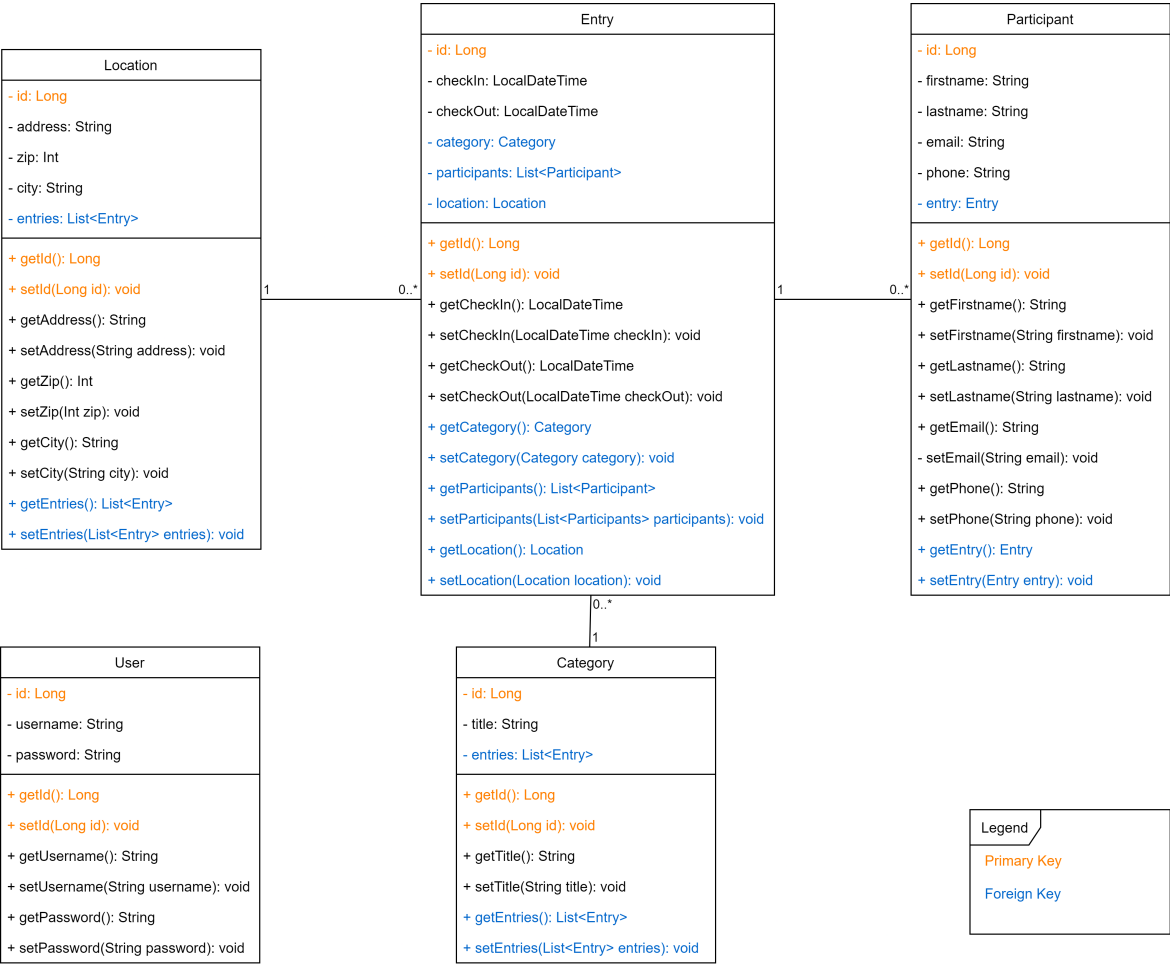
Entity Deletion Request

Manage Entities > Delete




Subject Class Diagram

'Subject class diagram' is a literal translation of the german name 'Fachklassendiagramm'. The difference to a normal class diagram (to my knowledge) is that only model classes are illustrated.



Persona(s)



Job Title
Course Manager

Age
25 to 34 years

Industry
Sales

Organization Size
1-10 employees

What does Alexander use the Application for?

Alexander is managing a small business with some colleagues. The company provides courses and therefore needs Software to hold these appointments. The provided Software should be able to help him organize and schedule the courses.

Tools They Need to Do Their Job

- Course Scheduling Software

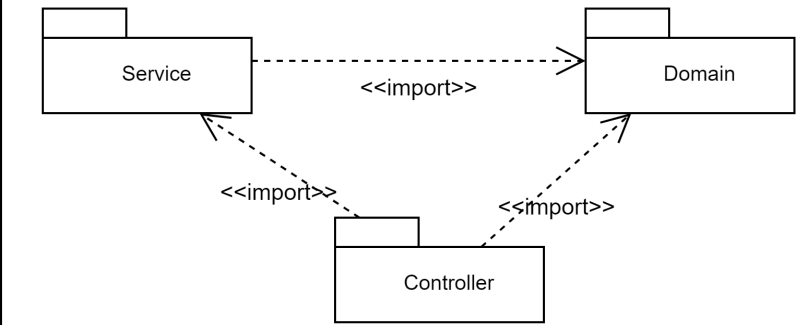
Job Responsibilities

Create and organize appointments

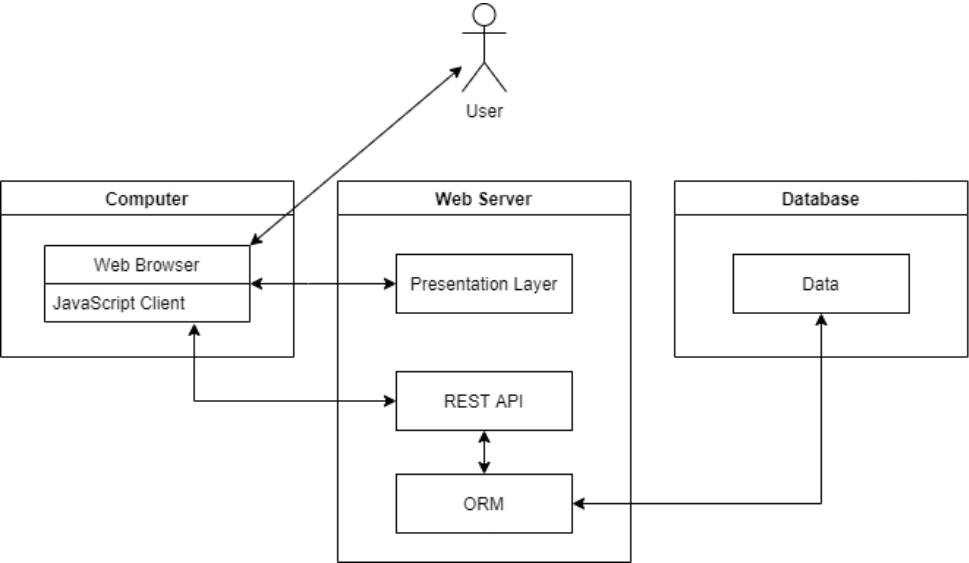
Goals or Objectives

Organizing the Companies Courses

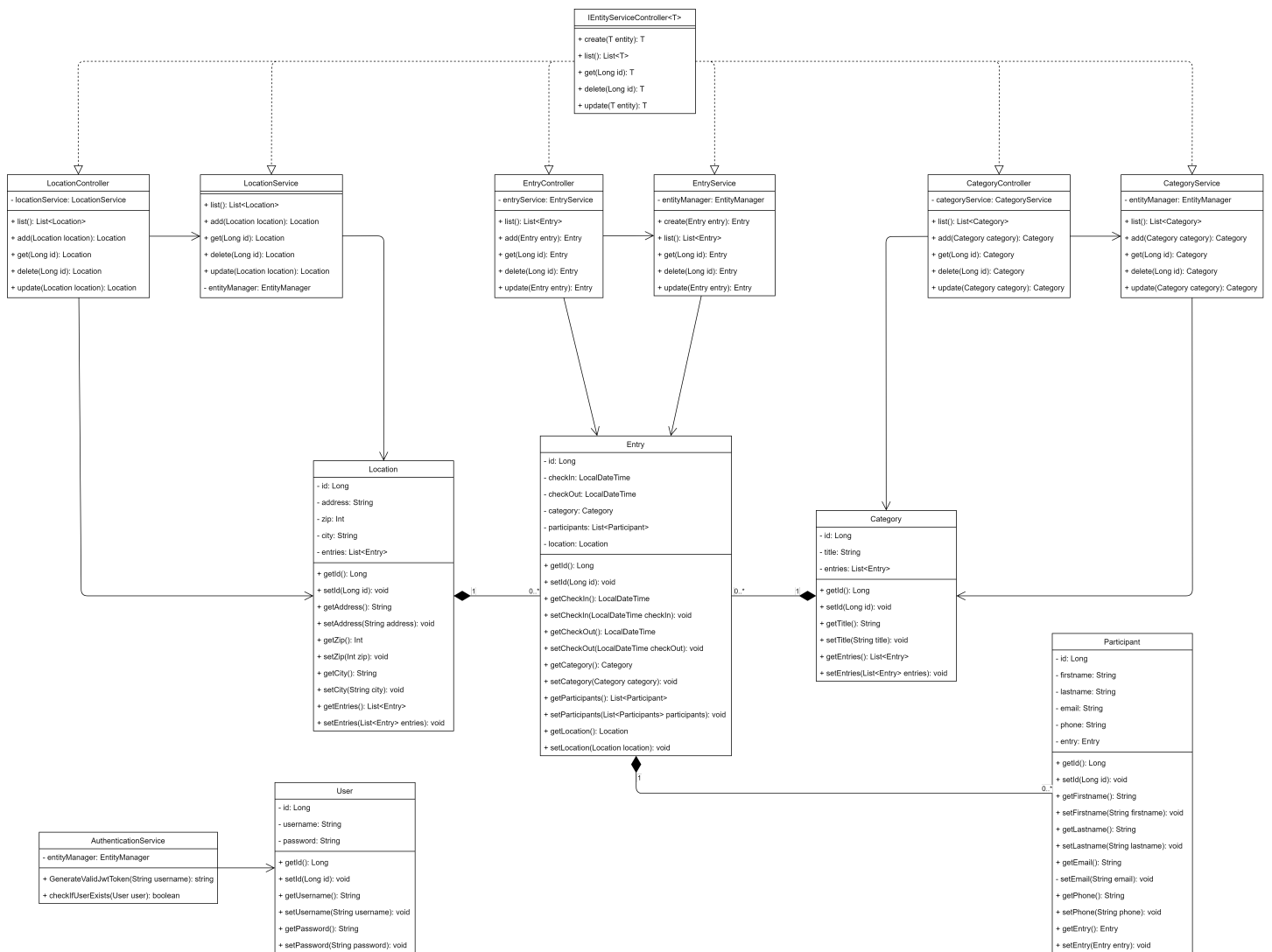
Package Diagram



Deployment Diagram



Class Diagram



Test Cases

Functional

- Entites can be created
- Entites can be deleted
- Categories can be listed
- Categories can be updated
- Locations can be created
- Locations can be updated

Non-Functional

- All API interfaces are following the same naming convention
- Data can only be viewed and edited when logged in
- The API does not accept wrong/inconsistent data

Source

The repository for [this file](https://github.com/speyck) is on github: github.com/speyck