Analysis

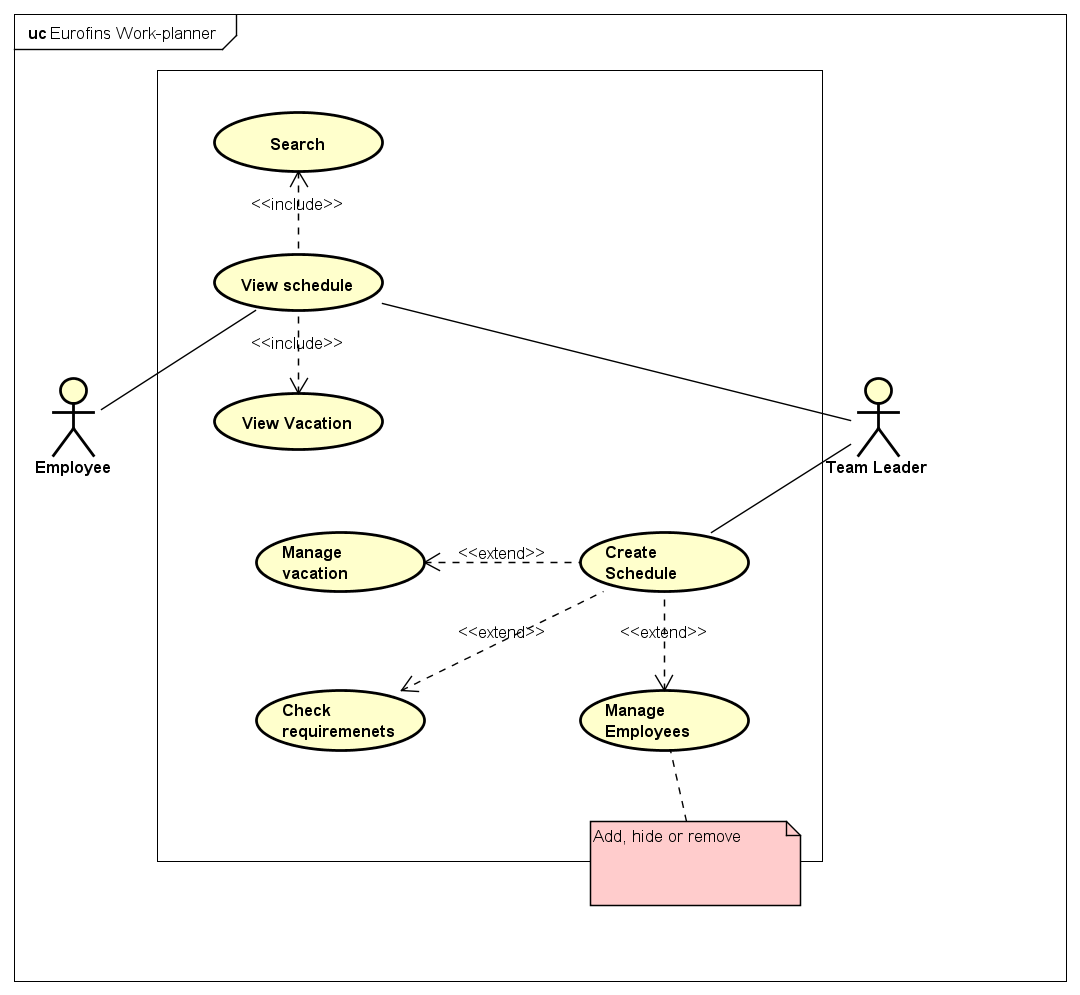
# Functional requirements

1. The system must be able to track the current date
2. The system must be able to extrapolate current month and/or week from current date
3. The system must store the employees name, employee code (1), training info (2) and test preferences (3)
4. The system must be able to differentiate between employee and team leader (4), as only the team leader can make changes
5. Users must be able to search for specific schedules or type of analysis
6. The search function must be able to search using keywords, such as names, codes, analysis type and date
7. The search function must return results within 2 second 95% of the time
8. Team leaders must be able to mark days of a specific employee as vacation days
9. The system must be able to differentiate the vacation marks (see requirement 8) into 2 categories: Accepted vacations, and vacations pending acceptation
10. The team leader must be able to comment on specific dates of an employee
11. The system must be able to store a worksheet which records how many employees are needed, for any specific test in a specific week
12. The system must be able to accept a request for an employee to do an assignment at another team, from an external team leader and record the employee’s temporary assignment to the other team
13. The system must be able to prevent illegal inputs, like a character in an age
14. The team leader must be able to add, change or delete a work-schedule on a specific date of a specific employee
15. The team leader must be able to add, hide or remove employees from the registry
16. The team leader must be able to put multiple analyses on a single day of a specific employee
17. The schedule must be available without installing an application
18. The system must keep track of employees tasked with the different assignments
19. The system should alert the team leader if the number of employees on a task is less than the minimum required (see requirement 11)

# Non-functional requirements

1. The system must be developed in Java
2. Scheduled vacations (see functional Req. 8) must color accepted vacation red and vacations pending acceptation yellow
3. The stored training info (2) should be colored:
   * Purple for approved employee
   * Red for employee needing retraining
   * Yellow for employee under training

# Use case diagram



# Use case Description

|  |  |
| --- | --- |
| Use case | **View schedule** |
| Summary |  |
| Actor |  |
| Precondition |  |
| Postcondition |  |
| Base sequence |  |
| Exception sequence |  |
| Notes |  |

|  |  |
| --- | --- |
| Use case | **Create schedule** |
| Summary |  |
| Actor |  |
| Precondition |  |
| Postcondition |  |
| Base sequence |  |
| Exception sequence |  |
| Notes |  |

# Appendix

1. The employee code is an identifier for a specific employee, based on their names initials together with a number (ex. Barbie Blondie becomes BB8)
2. Training info is information, stored with an employee’s data, that represents their training status within certain tests. The states of training are:
   * Trained
   * Needs retraining
   * Under training
3. Like training info, test preference is stored with the employee’s data, and records the employee’s preference of test (either prefer, can do, dislikes, can’t do)
4. The team leader is an employee that oversees the assignment of task and creation of schedule. The team leader therefore has higher privileges than regular employee’s