

SW test project - Vacation Management

The task is to write a simple web application using [Phyton](#), [Docker](#), [Docker Compose](#) and [Flask](#). User interface should be browser based and supports Google Chrome.

Requirements:

- the users have to login with their google account to access the application
- after the first login the user doesn't have any access, an administrator have to approve the registration
- implement three user groups:
 - viewer
 - only can access calendar view
 - employee
 - can create new leave request for himself/herself
 - can access calendar view
 - administrator
 - can manage the users (their leave categories and user groups)
 - can manage the leave categories (create, delete)
 - can accept or decline the leave requests
 - can browse the requests
 - can create new leave entry for himself/herself
 - can access calendar view
- leave request:
 - three states:
 - pending
 - this will be the state of the request when the user create a new one
 - accepted
 - after the administrator accepted
 - declined
 - after the administrator declined
 - administrator can modify the state of an accepted or a declined request too (accepted -> declined, declined -> accepted)
- email notification to users and managers about changes (make notification optional)
- vacation setup:
 - define allowed vacation days

Output:

Application should be presented with install instruction and source files plus a short Readme file that gives full instruction on how the application can be used.