ATIC

End of Studies

Design & Development of a Fullstack Web-Based platform for resource management to handle online appointments and reservations within different facilities

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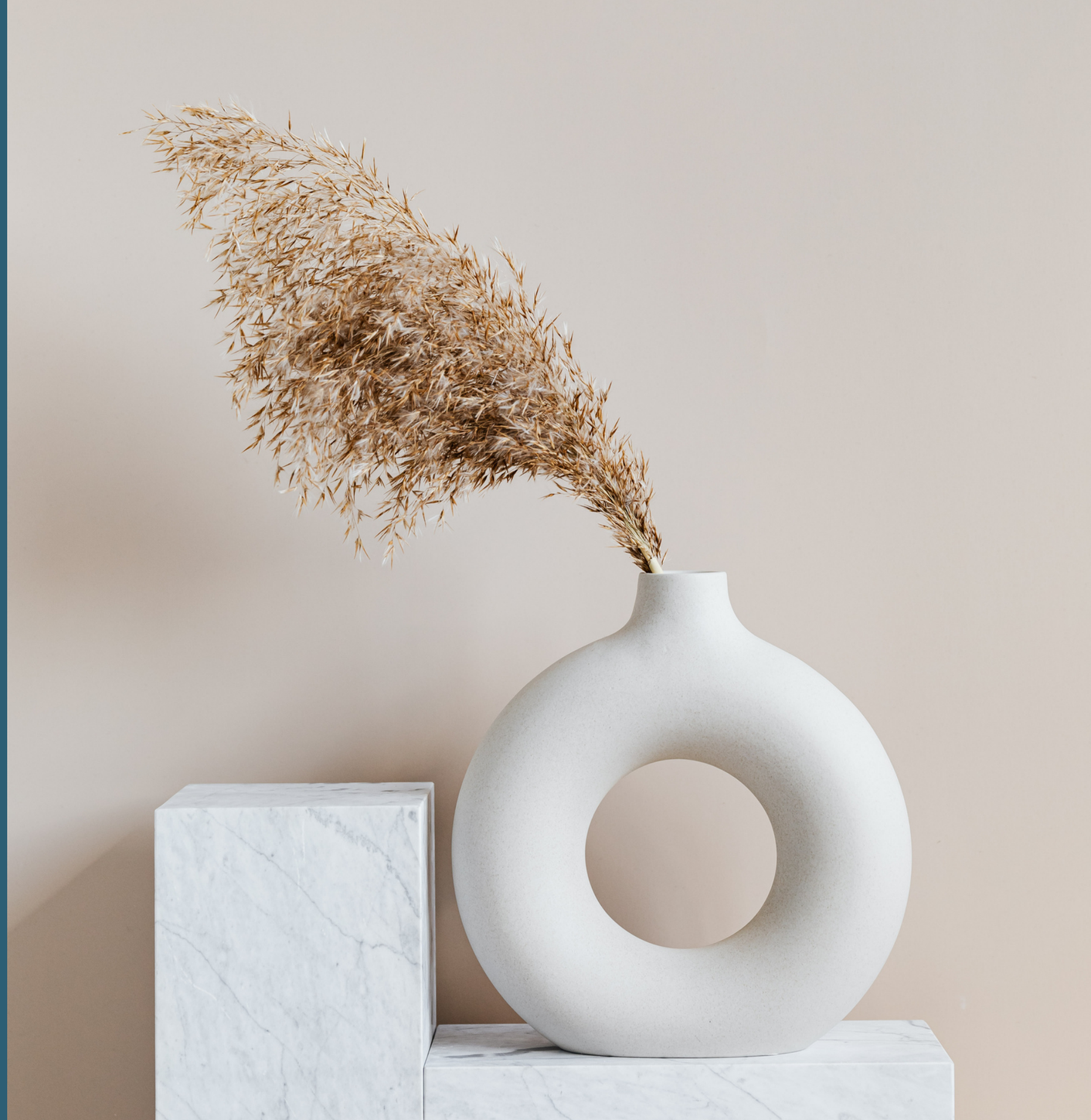

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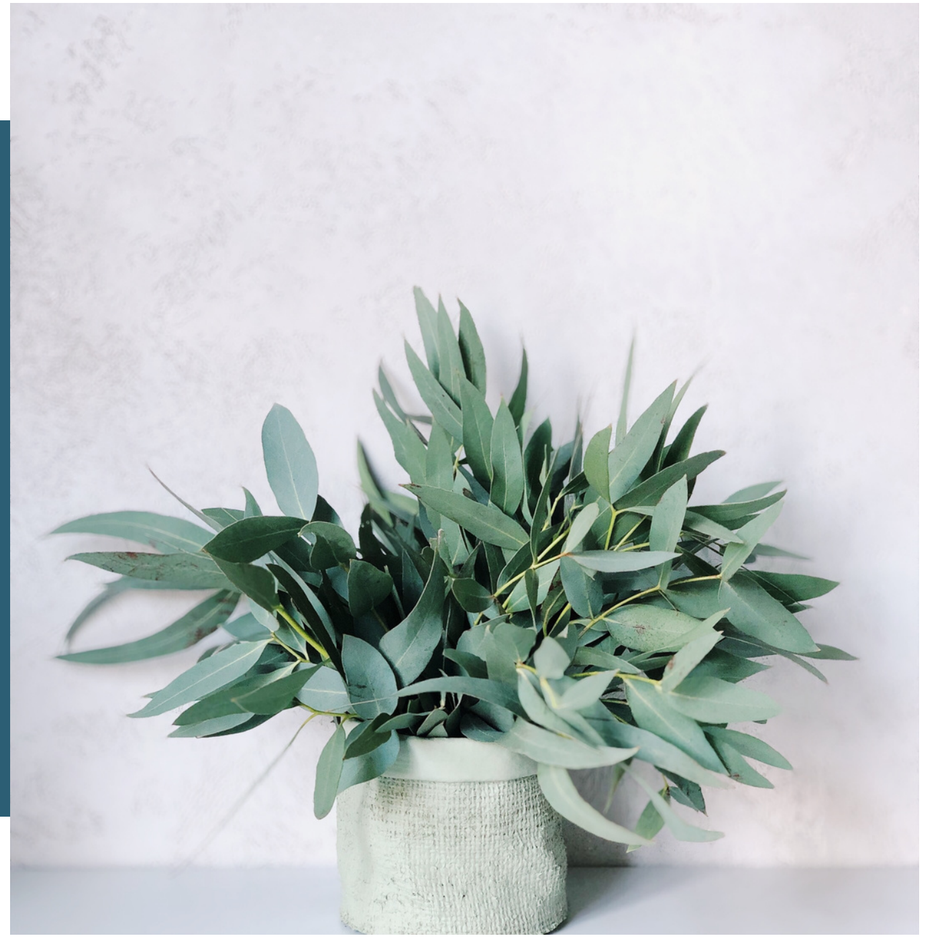
Introduction

Most of service providers need to manage their resources and reservations within time slots in order to fulfill their customer needs.
In this context, we are planning to develop a resource management platform that can be used in various fields, including medical offices, cosmetic saloons etc...
This platform will be accessible via a Web application. (*for now*)



Context model

Actors

- **Customer** [*Visitor*]
  ...
- **Worker**
  ...
- **Manager**
  ...
- **Owner**
  ...

Dive into

User Authorities & Usecases

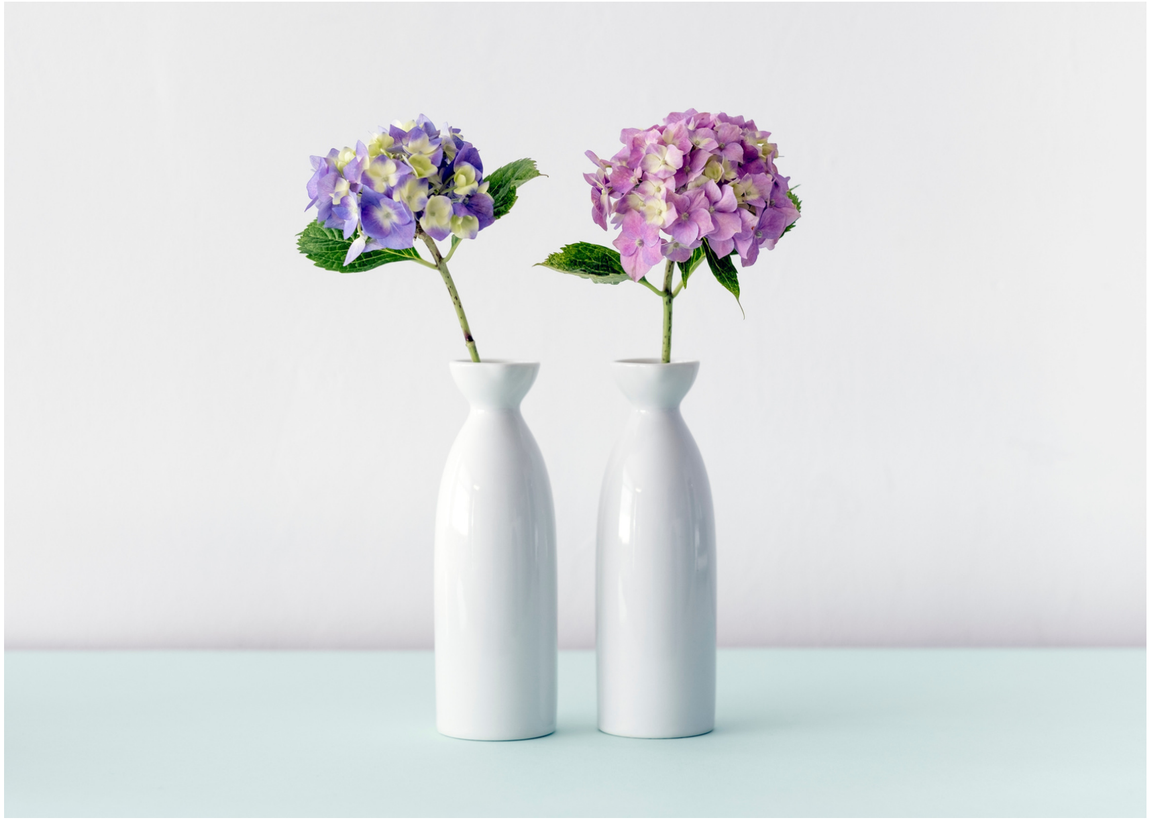
Usecases

Visitor service

Visitor is authorized to consult :

01 Branches

02 Facilities/Saloons



Usecases

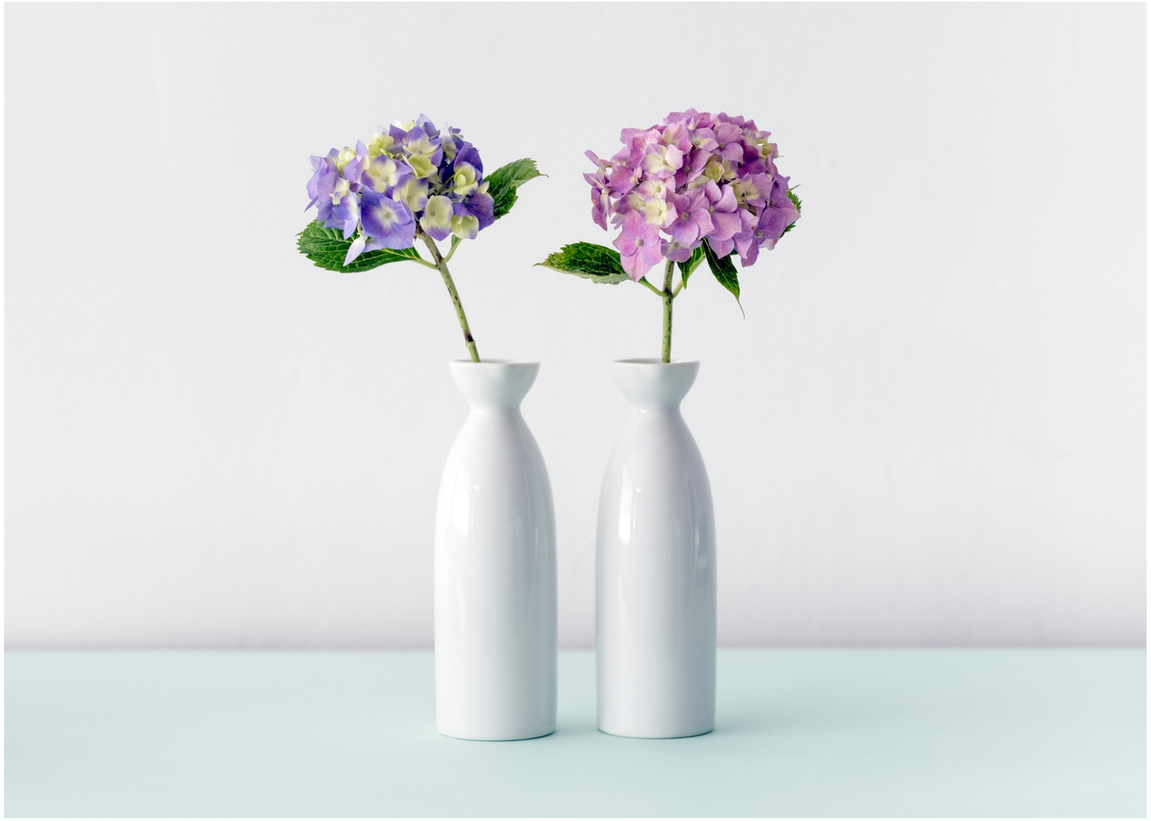
Customer service

After being authenticated, a customer should be authorized to manage :

01 Favourites

02 Reservations

03 Ratings

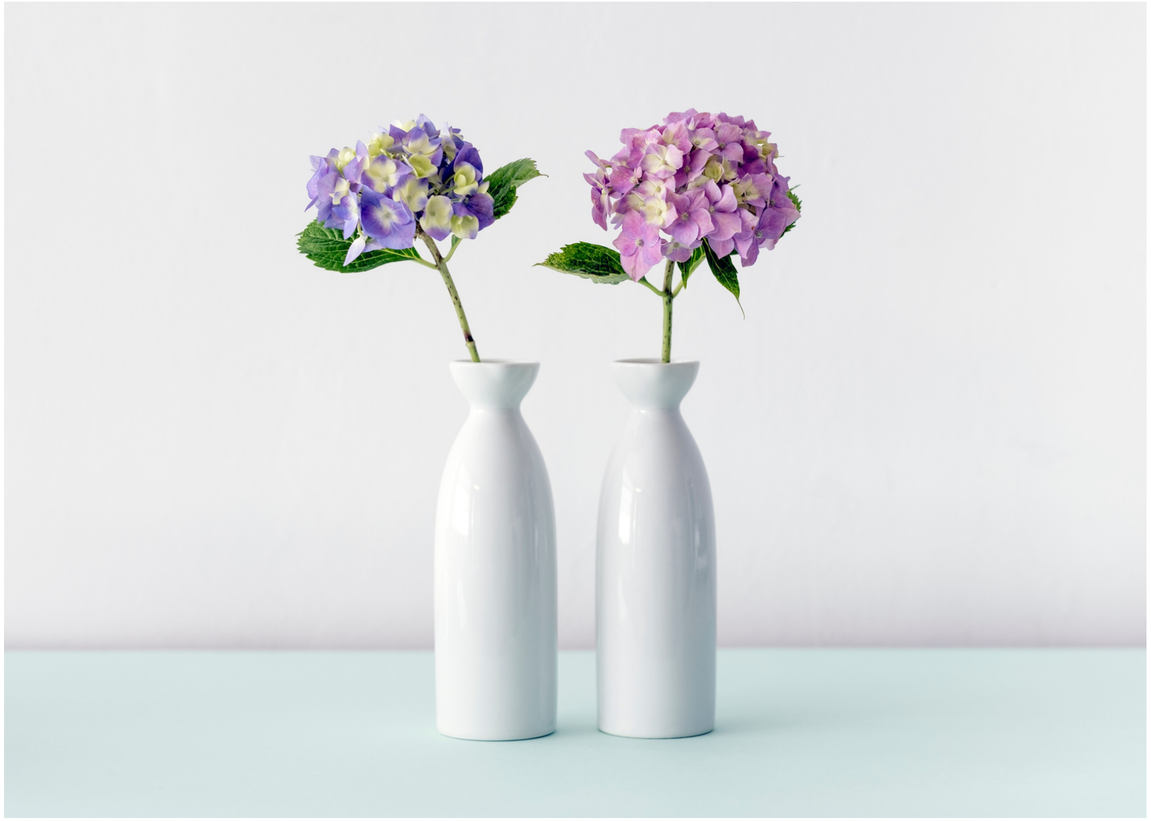


Usecases

Owner service

After being authenticated, an owner should be authorized to manage :

01 Facilities



Usecases

Manager service

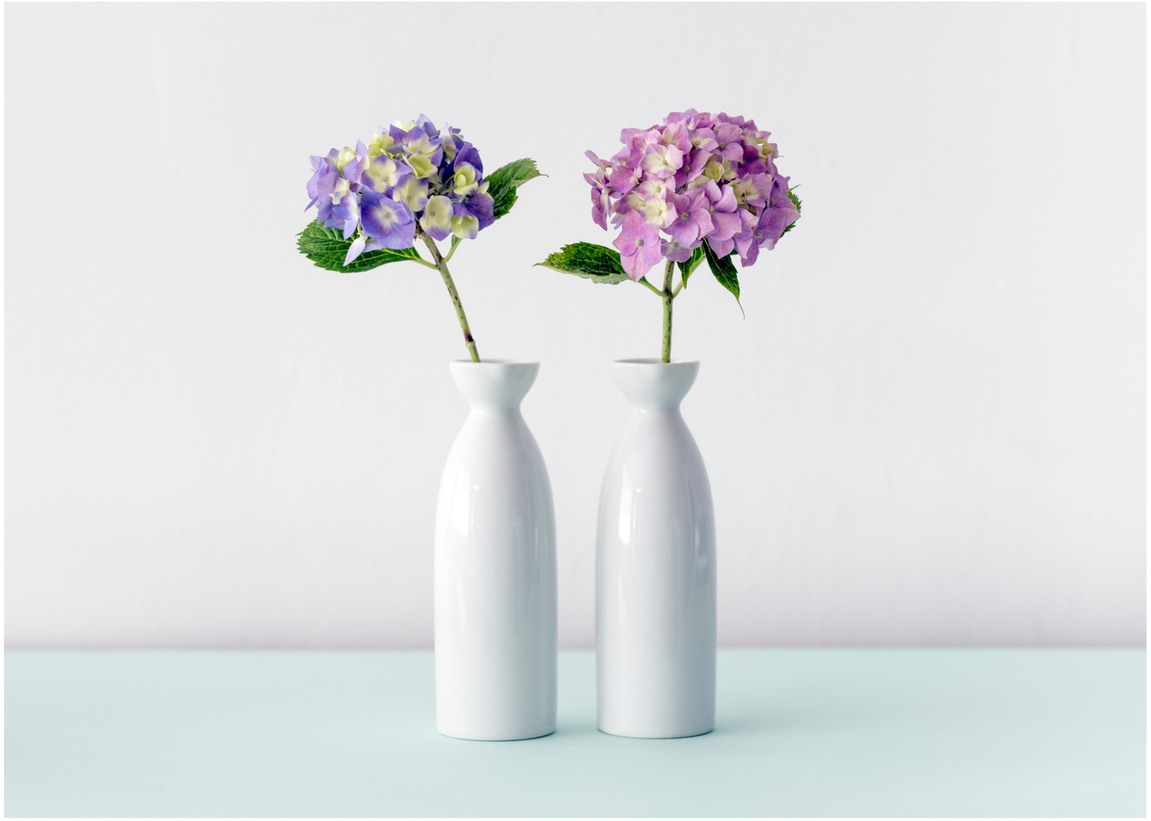
After being authenticated, a manager should be authorized to manage :

01 Categories

02 Service details

03 Workers

04 Appointments



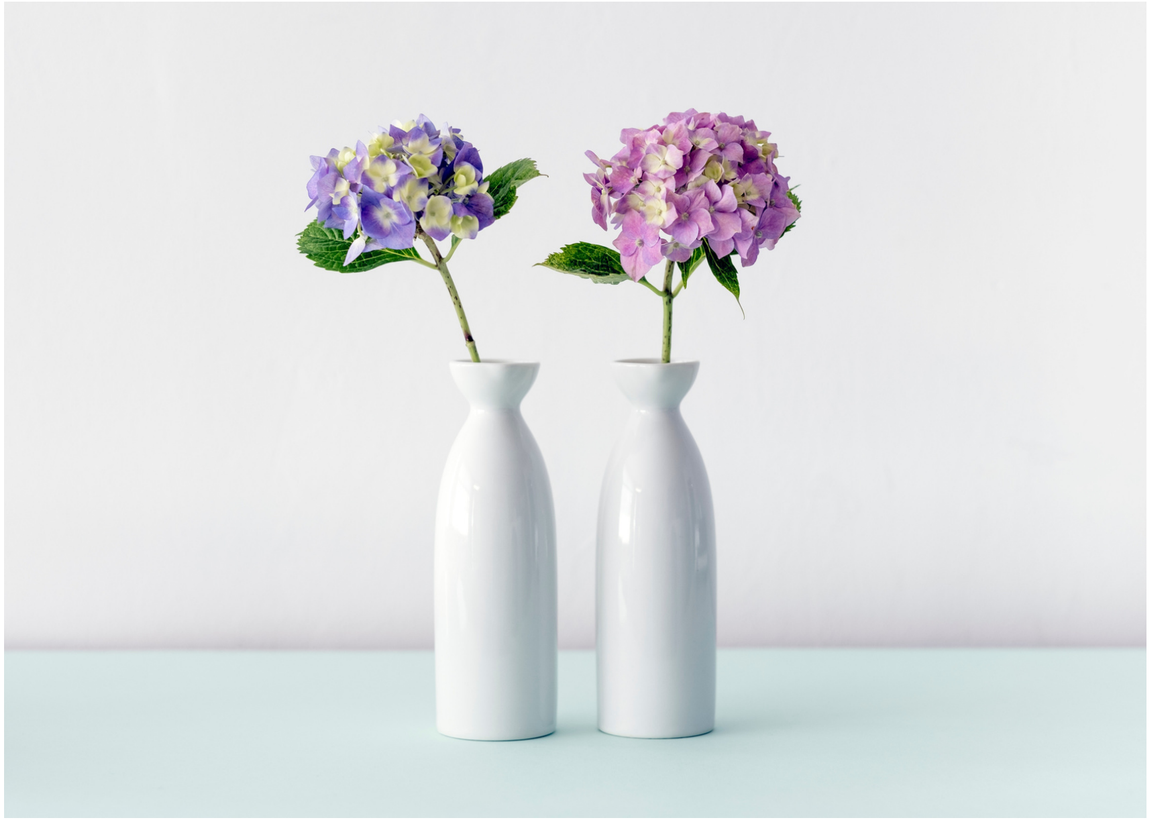
Usecases

Worker service

After being authenticated, a worker should be authorized to manage :

01 Timetable

02 Tasks/Todos



Product Backlog

Backlog & Releases

...

01 App Configurations

Sprint 1:
- Setup Backend & Frontend apps

Sprint 2:
- Infrastructure as a Service (IaaS)
- Configs (env vars, secrets...)
- CI / CD pipeline conf
- Deploy Poc(s) as Images

02 Auth Security process

Sprint 1:
- Authentication & Authorization

Sprint 2:
- Registration

03 Customer service

Sprint 1:
- Consult Facilities & Locations
- Consult Topics & tags

Sprint 2:
- Manage Favourites & Reservations

Sprint 3:
- Rate a worker

04 Worker service

Sprint 1:
- Checkout timetable
- Manage Todos

05 Manager service

Sprint 1:
- Manage facility categories & services

Sprint 2:
- Manage Workers & Reservations

06 Owner service

Sprint 1:
- Manage facilities

Design

Usecase diagram :

https://github.com/SelimHorri/atic-backend-app/blob/master/docs/doc/atic/atic_usecase_diag.drawio.pdf

Entity Relationship Diagram (ERD) :

https://github.com/SelimHorri/atic-backend-app/blob/master/docs/doc/atic/atic_erd_diag.drawio.pdf

Class diagram :

https://github.com/SelimHorri/atic-backend-app/blob/master/docs/doc/atic/atic_erd_diag.drawio.pdf

App Architecture :

https://github.com/SelimHorri/atic-backend-app/blob/master/docs/doc/atic/atic_component_complexity.drawio.pdf

Implementation Stack

Datastores

Backend develop

Frontend develop

Code Quality
Measurement

Version Control

Azure DevOps

CI/CD pipelines

Continuous Integration - Continuous Delivery

GitHub Actions

Azure Pipelines

Jenkins

Container Runtime

kubernetes

docker

Cloud Provider

...

Monitoring

...

THANK YOU

...

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