

SNAP PARK

IES UA-2023/24

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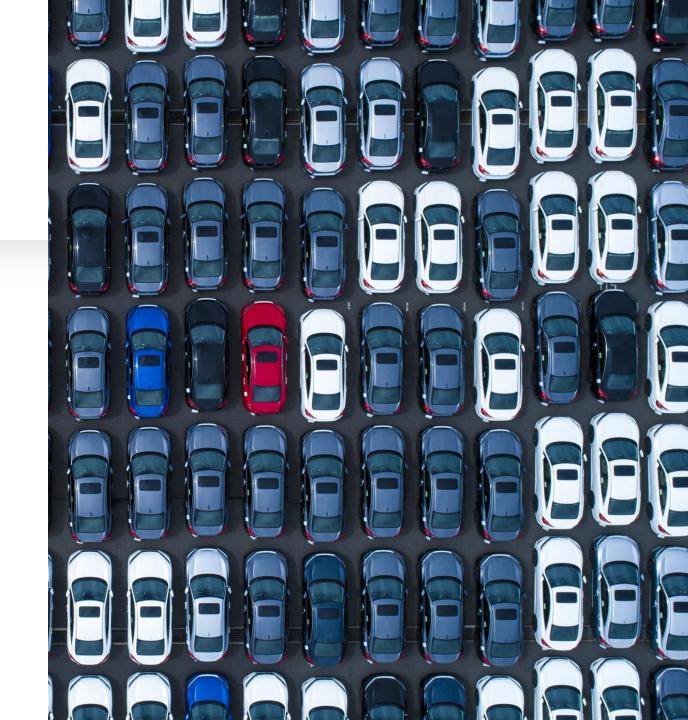
Objectives

- Develop a software product specification, from its usage requirements/scenarios (user stories) to its technical design.
- Propose, justify and implement a software architecture, based on enterprise *frameworks*.
- Put collaborative work practices for code development and agile project management into practice.



Product concept

App designed with parking lot owners in mind. It aims to provide them with several monitoring and managing features, including essential information such as the number of parked vehicles.





Personas

John is a forty-year-old Portuguese owner of a moderately-sized general store that recently acquired the nearest parking lot, being immediately next to the store.

User stories

Register park epic

John should be able to add a park

John wants to add a sensor to a park

User stories

Monitor park epic

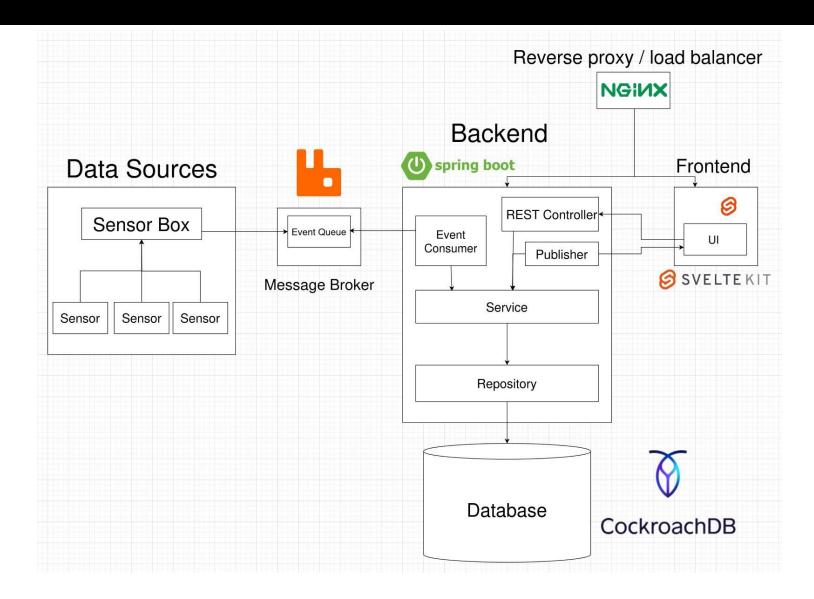
John should be able to monitor park movement

John should be able to check revenue

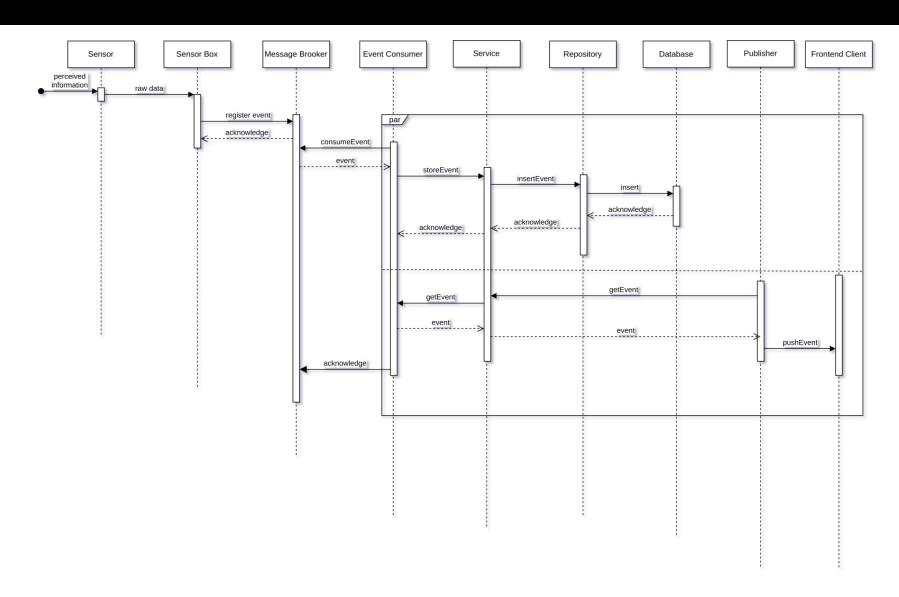
John wants to monitor air quality

John should be able to view the light levels of a park

Architecture

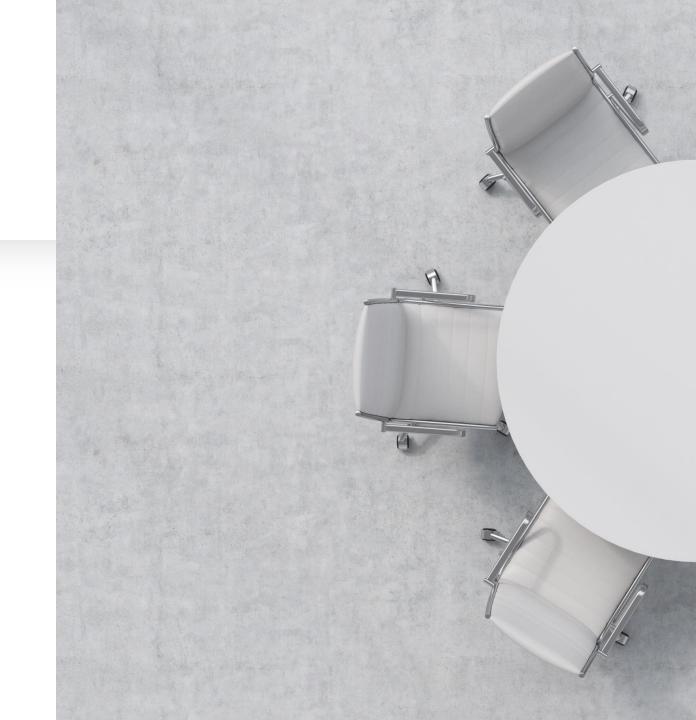


Module interactions

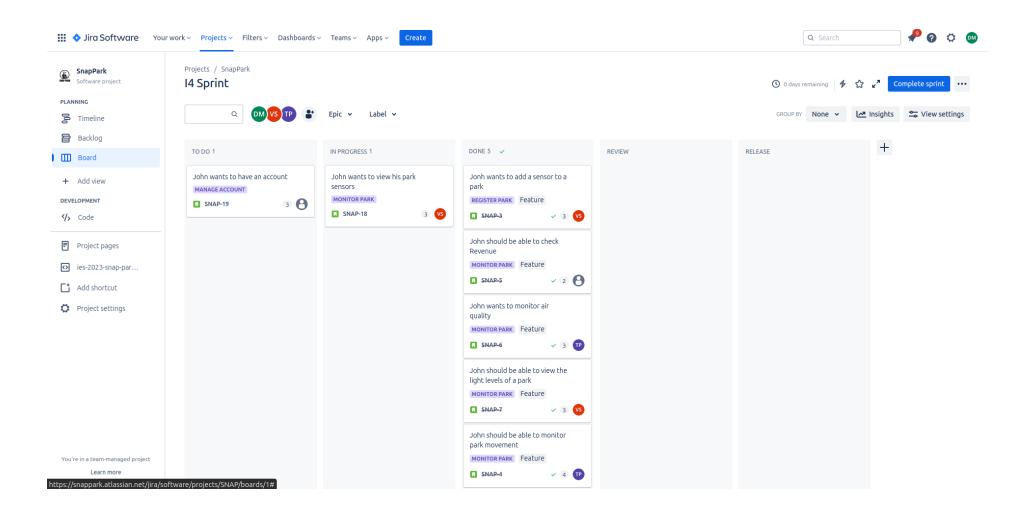


Agile Practices

- Work divided in several sprints
- Scrum
- Backlog
- Feature Driven WorkFlow
- Weekly meetings



Product Backlog and Prioritization:



```
object to mirror
      peration == "MIRROR_X":
     mirror_mod.use_x = True
     mirror_mod.use_y = False
     mirror_mod.use_z = False
      _operation == "MIRROR_Y":
      lrror_mod.use_x = False
      lrror_mod.use_y = True
      irror_mod.use_z = False
       operation == "MIRROR_Z";
       rror_mod.use_x = False
       lrror_mod.use_y = False
       rror_mod.use_z = True
       election at the end -add
        _ob.select= 1
Demoand Showcase of the App
        irror_ob.select = 0
       bpy.context.selected_obj
        ata.objects[one.name].sel
       int("please select exaction
       -- OPERATOR CLASSES ----
        vpes.Operator):
         X mirror to the selected
       ject.mirror_mirror_x"
       Fror X"
                        ic not
```

