

Functionalities: (user) (web)

- book a toilet at a precise time, btw 1 and 7 min
- find the closest toilet (localisation)



Server state machine

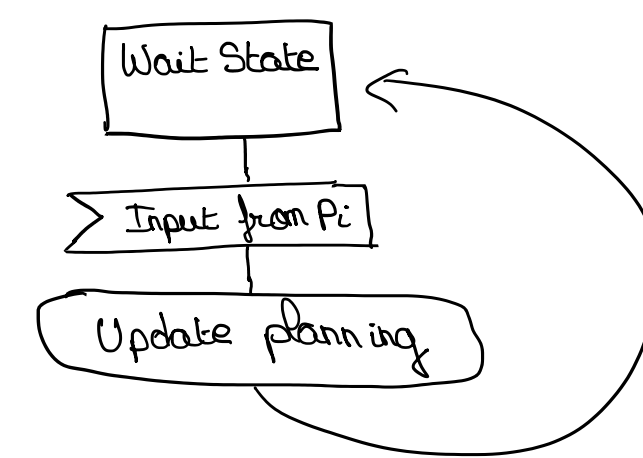
demande (web) → server → sensor (pi)
libre?

STEP 1

Without reservations:

Pi → [IdToilet; Oc/~~se~~] → server

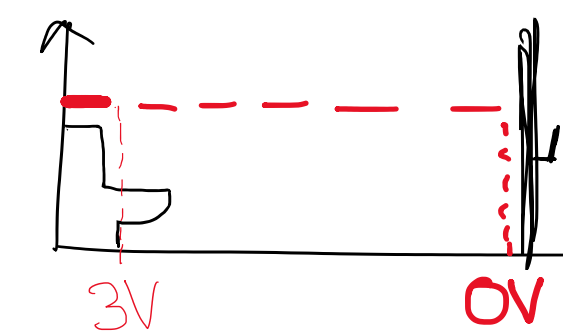
Update planning = write Id and Oc / ~~se~~



Functionalities (server)

- not several bookings one after another
- authentication of client (Id + pwd)
- if nobody after 112 min → cancel reservation
- real-time planning for all toilets
 - ↳ reservations
 - ↳ + sensors for occupied toilets
- display on map?

Sensors and pi



Functionalities (LEDs toilets)

- LEDs to display toilet occupation
 - ↳ LED goes red as soon as we have a reservation or someone enters toilet
 - ↳ LED goes green iff toilet is not occupied (even if reservation is over)

