Smart Queue & Analytics

for healthcare

Progress in minor project

Home   **Register patient**

Logout

Timer   20 sec

next patient

Patient 1

Patients registered

Expected Time

Patient 2 🖊 🗑 15 min
Patient 5 🖊 🗑 35 min

→ Patient1
Patient2
Patient3
Patient4
Patient5
Patient6
Patient7
.
.
....
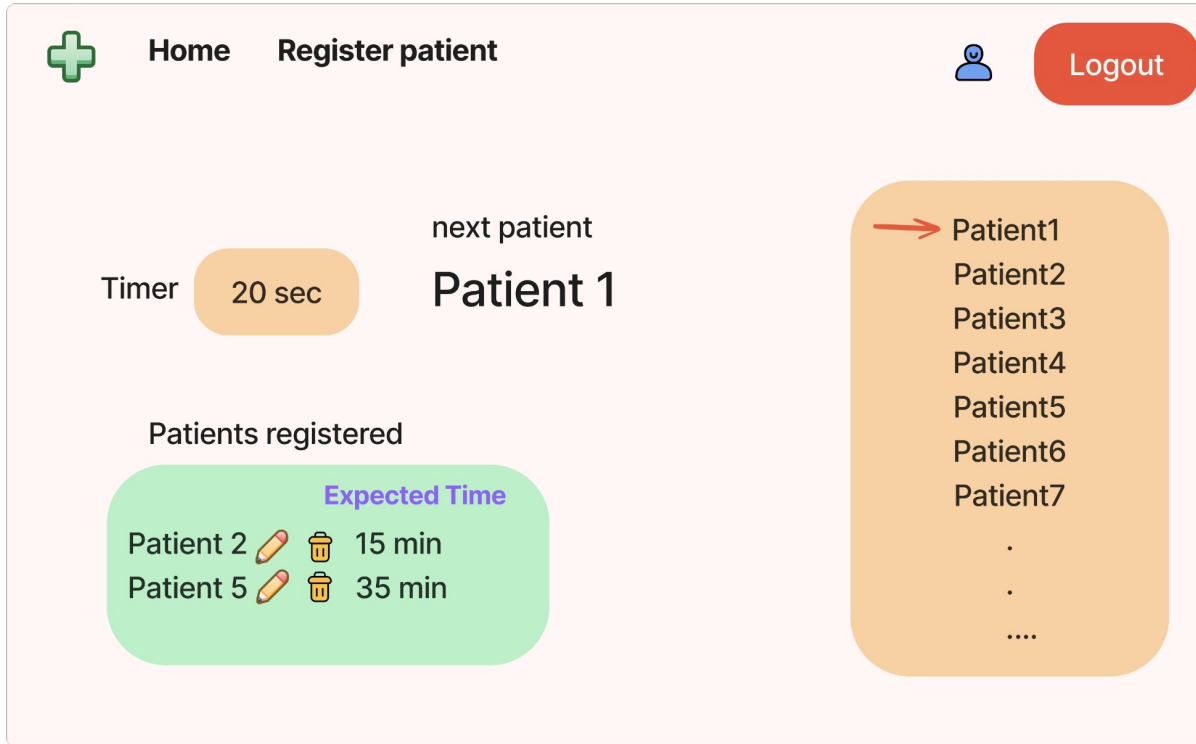
Key points

- Placing latecomers optimally
- Let the patient knowing their status.
- Saving time of the patients who are already there.
- Prioritizing senior citizens

How to see if doctor is present of patients are present.

Doctor after logging into the platform will scan QR Code present on the screen of the clinic.
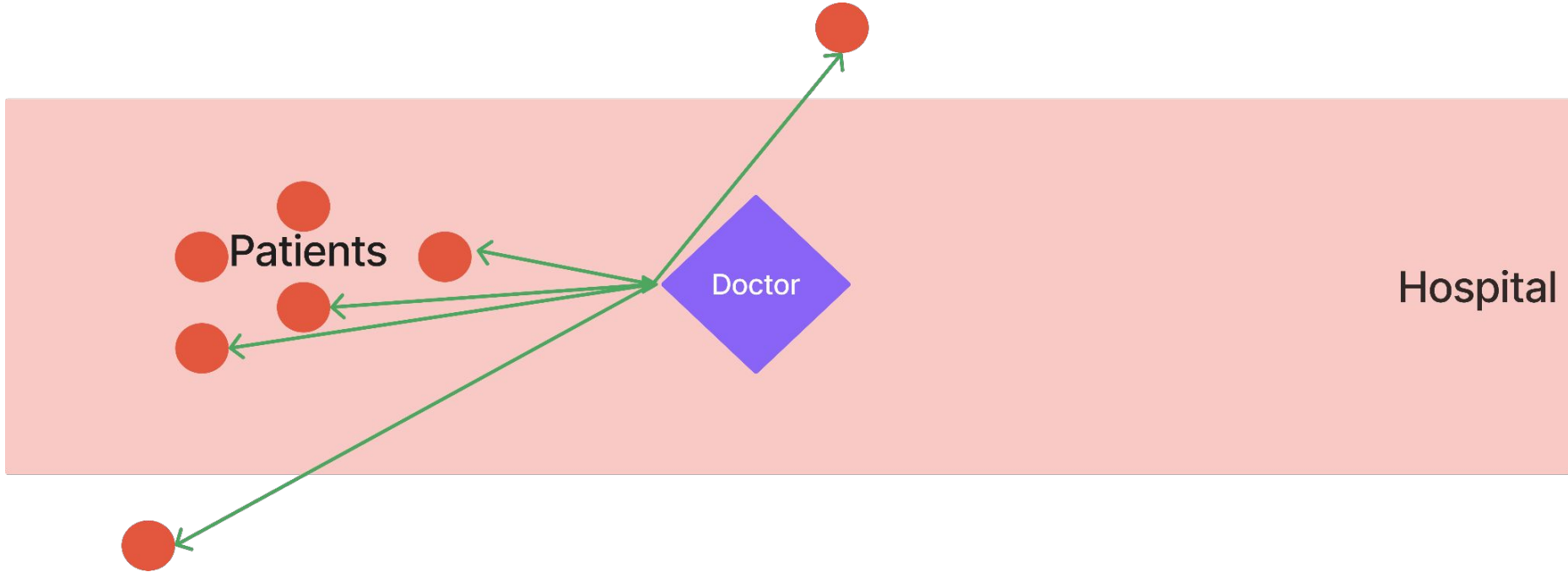
To mark his presence.

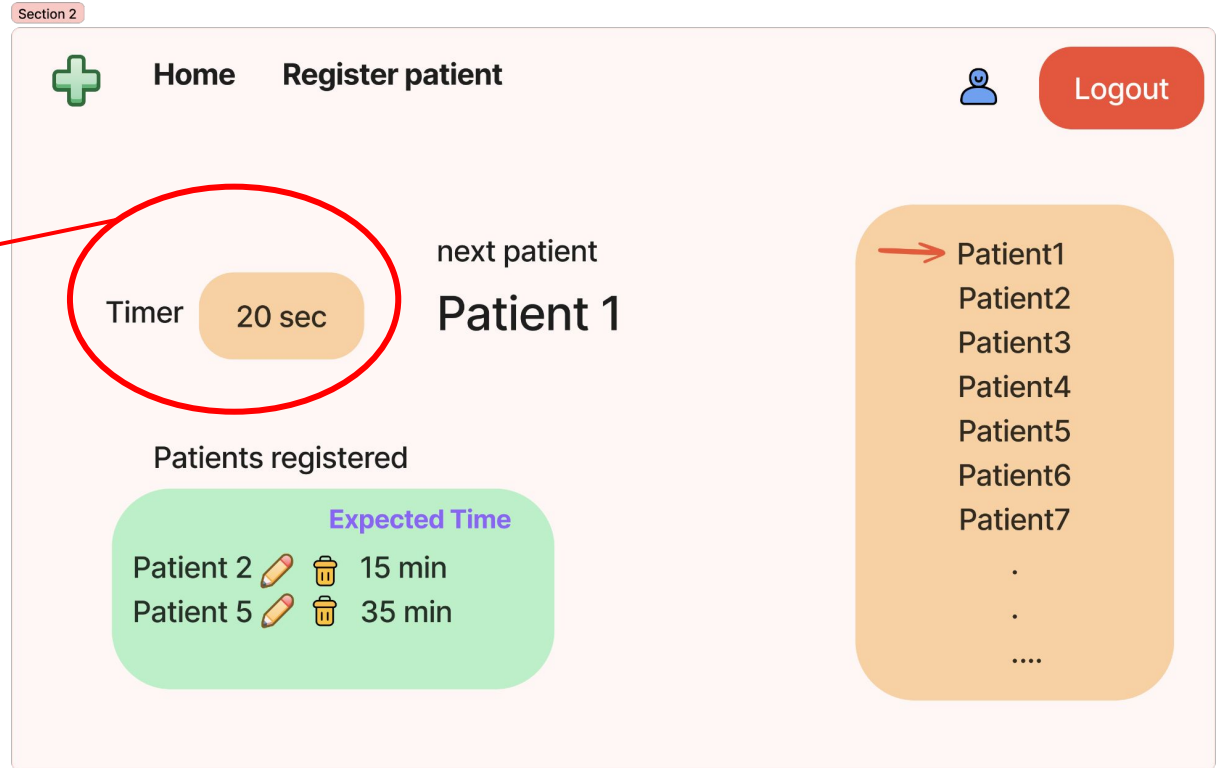# Latest location of the patients will be fetched (if fetchable)

Patients

Doctor

Hospital

Distance wrt Doctor will be fetched

Patients

Doctor

Hospital

We will calculate the relative distance from doctor.

- From relative distance we will be able to calculate if patient able to reach hospital or not

- If not we will skip him, no need to waste time on timer.

- If unable to locate him, wait till timer.

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Reference

Zero Queue Maintenance system

- They used fingerprints
- There are multiple departments in the hospital
- Avg cost will be high
- QR Scanner is feasible.
- Various security measures can also introduced.

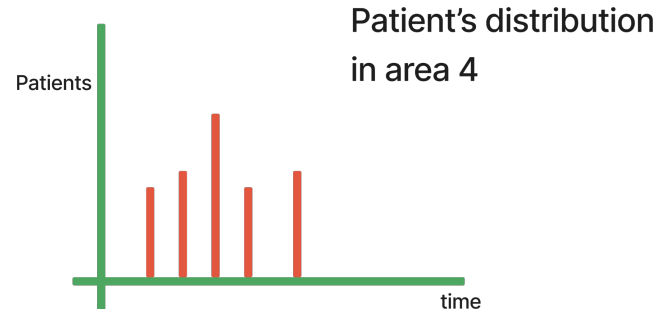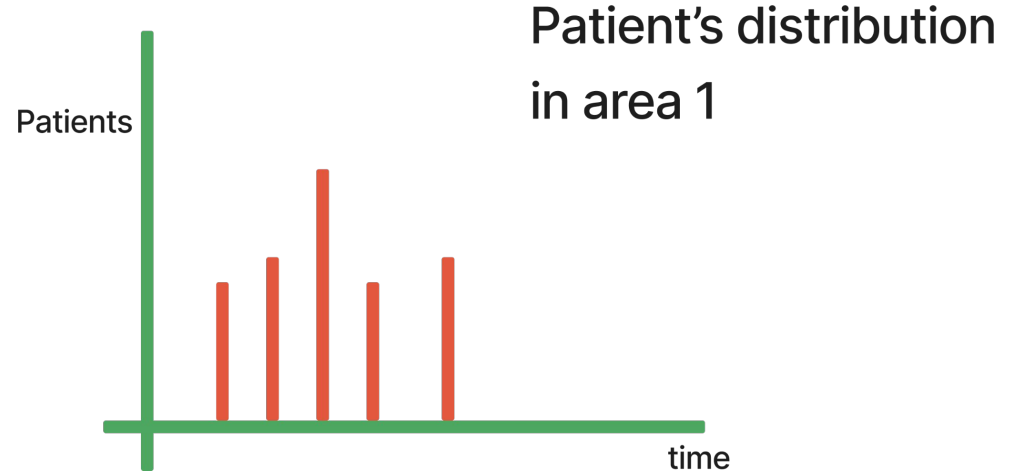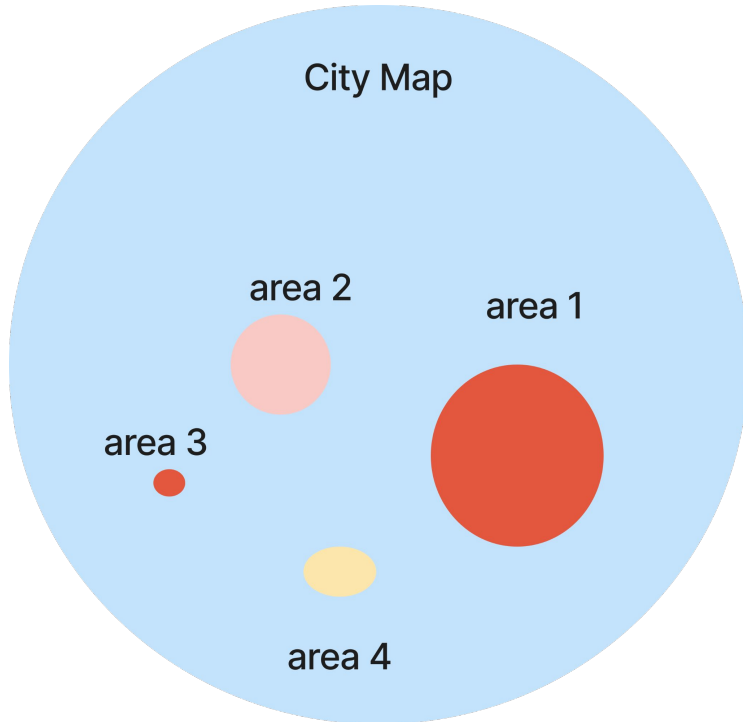# Admin Page to view all patients with their concerning doctors

Home

Logout

Doctors

Patients

Admins

Data Analytics

For Every area we will mark <u>no. of patients</u> per <u>time</u>

City Map

area 2

area 1

area 3

area 4

Patients

time

Patient's distribution in area 1

Patients

time

Patient's distribution in area 4

For Every area we will mark <u>no. of patients</u> per <u>time</u>

Home   **Register patient**   Logout

This will help us to deal with the peak timings depending upon area.

next patient
Patient 1

Timer   20 sec

→ Patient1
Patient2
Patient3
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Patient5
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Patient7
.
.
....

Patients registered

Expected Time

Patient 2 🖍 🗑 15 min
Patient 5 🖍 🗑 35 min

Will also help us in running various analytical tools

Disease count graph of Area 1

count

Disease 1
Disease 2
Disease 3
Disease 4

Disease count graph of Area 4

count

Disease 1
Disease 2
Disease 3
Disease 4
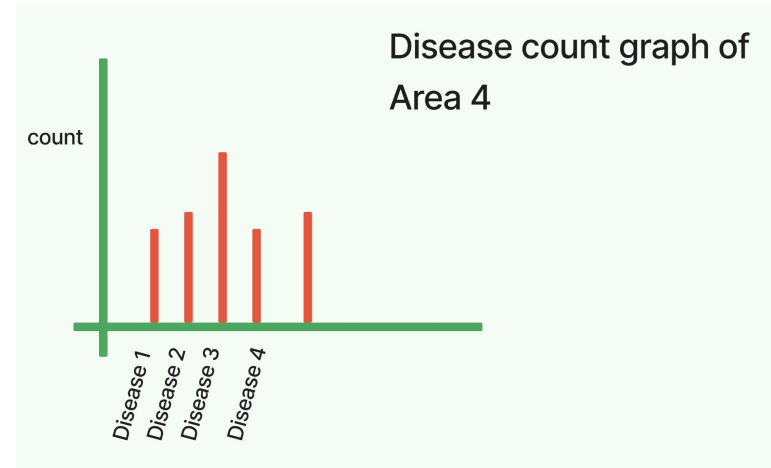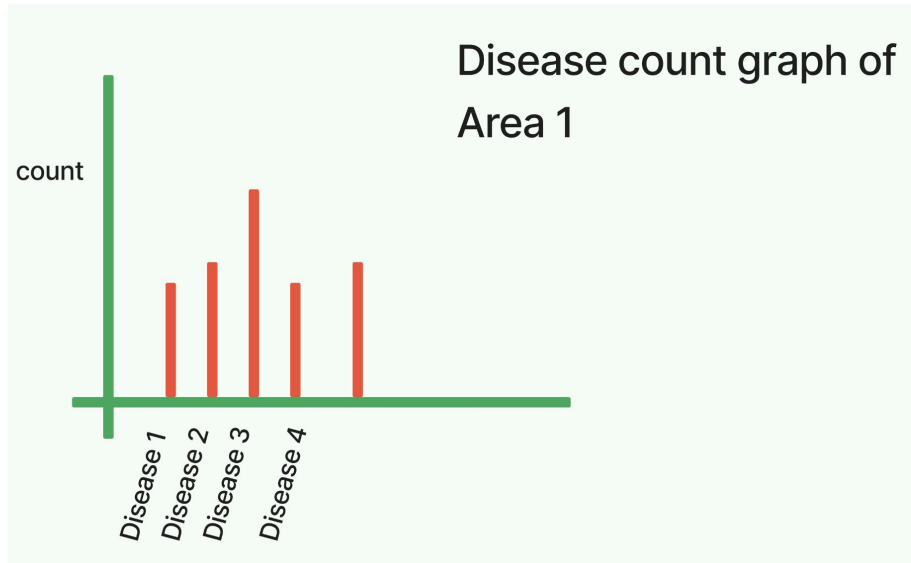
For the betterment of that area.

- Research purpose
- Sharing data with govt officials incharge of current area for betterment.