



RUNTIME TERRORS

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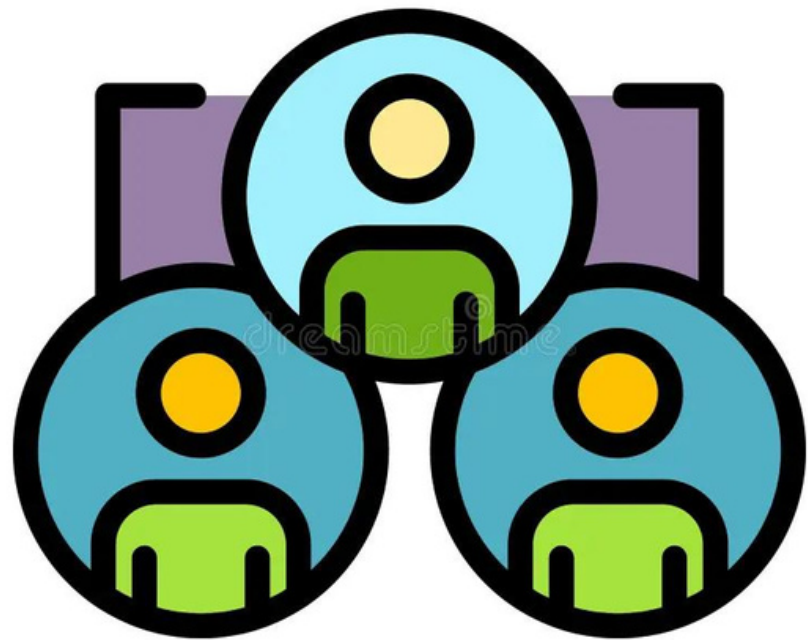
Business Potential

PROBLEM STATEMENT



Design algorithms and frameworks that **allocate patients to hospitals based on factors such as severity of symptoms, hospital occupancy, and available medical equipment** which will provide government officials with insights for effective policy-making and resource allocation.

TARGET AUDIENCE



Our target audience are :

- **Hospitals**
- **Patients**
- **Government Officials**

PURPOSE OF PROJECT

saleshandy



The main purpose of choosing this problem statement is that **we saw a great trouble for patients to wander here and there for vacancy of beds in the hospital and government officials struggling to assign where to supply more medication. So we came up with a solution which can solve these problems to an extent.**

FEATURES OF PROJECT



The features of the project are:

- **Easy detection of hospitals and available beds in accordance to given factors.**
- **Formulation of government policies for future events.**
- **Easy allocation of stocks to various hospitals on basis of our analysis.**

THE TECHNOLOGIES INCLUDED



The applications and languages that we have use are:

- Python
- HTML
- CSS
- JAVA SCRIPT(JS)

OBJECTIVES ACHIEVED

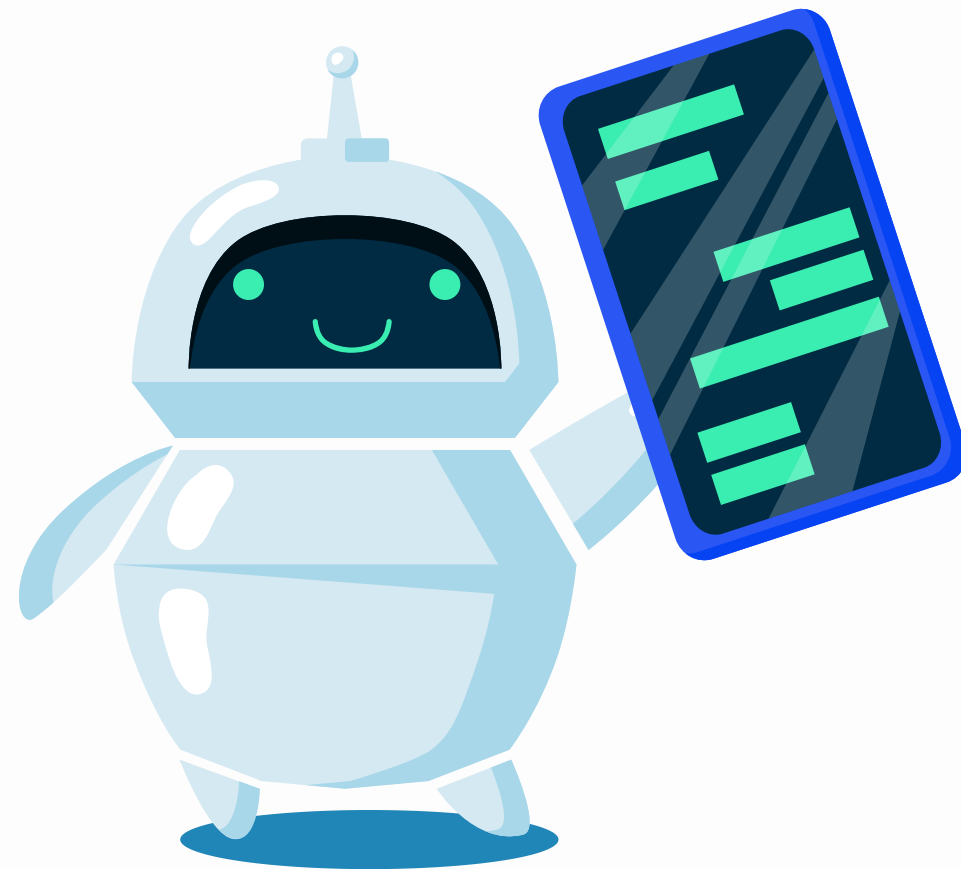


The objective that we were able to achieve so far are:

- We were able to **suggest and provide patient data of all the hospitals** and details regarding bed availability as well.
- From the analysed data, government will get some leads to form future policies and laws.

PROTOTYPE IMPLEMENTATION

Our prototype has two phases:



1. The front end deals with **data collection** having fields like patient number, temperature, pincode, test results and many more.
2. The back end will receive data from the front end and accordingly all the **processing will start on the python files with visual representations of data will also be showcased.**

PROTOTYPE IMPLEMENTATION

Patient Data Input

FRONT-END

Patient ID

12342

Sex

Male

Age

34

Pincode

350040

Finding(Test Results)

Covid-19

Temperature(°c)

39

P02 Saturation(mm of Hg)

55

Leucocyte Count(/mm)

7000

Neutrophil Count(/µl)

4000

Neutrophic Count(/µl)

6000

Submit

FRONT-END

PROTOTYPE IMPLEMENTATION

Allocating resources for Patient ID 7132:

Advice: Direct ICU or Special/Semi-Special/General ward

Option 1: Hospital 46 - Available semi special wards: 25

Option 2: Hospital 58 - Available semi special wards: 16

Option 3: Hospital 91 - Available semi special wards: 26

Option 4: Hospital 25 - Available semi special wards: 28

Option 5: Hospital 67 - Available semi special wards: 25

Option 6: Hospital 95 - Available semi special wards: 15

Option 7: Hospital 74 - Available semi special wards: 20

Option 8: Hospital 17 - Available semi special wards: 18

Option 9: Hospital 72 - Available semi special wards: 20

Option 10: Hospital 24 - Available semi special wards: 27

Choose a hospital option: 2

Allocated Bed - Hospital ID: 58, Bed Type: semi_special_wards

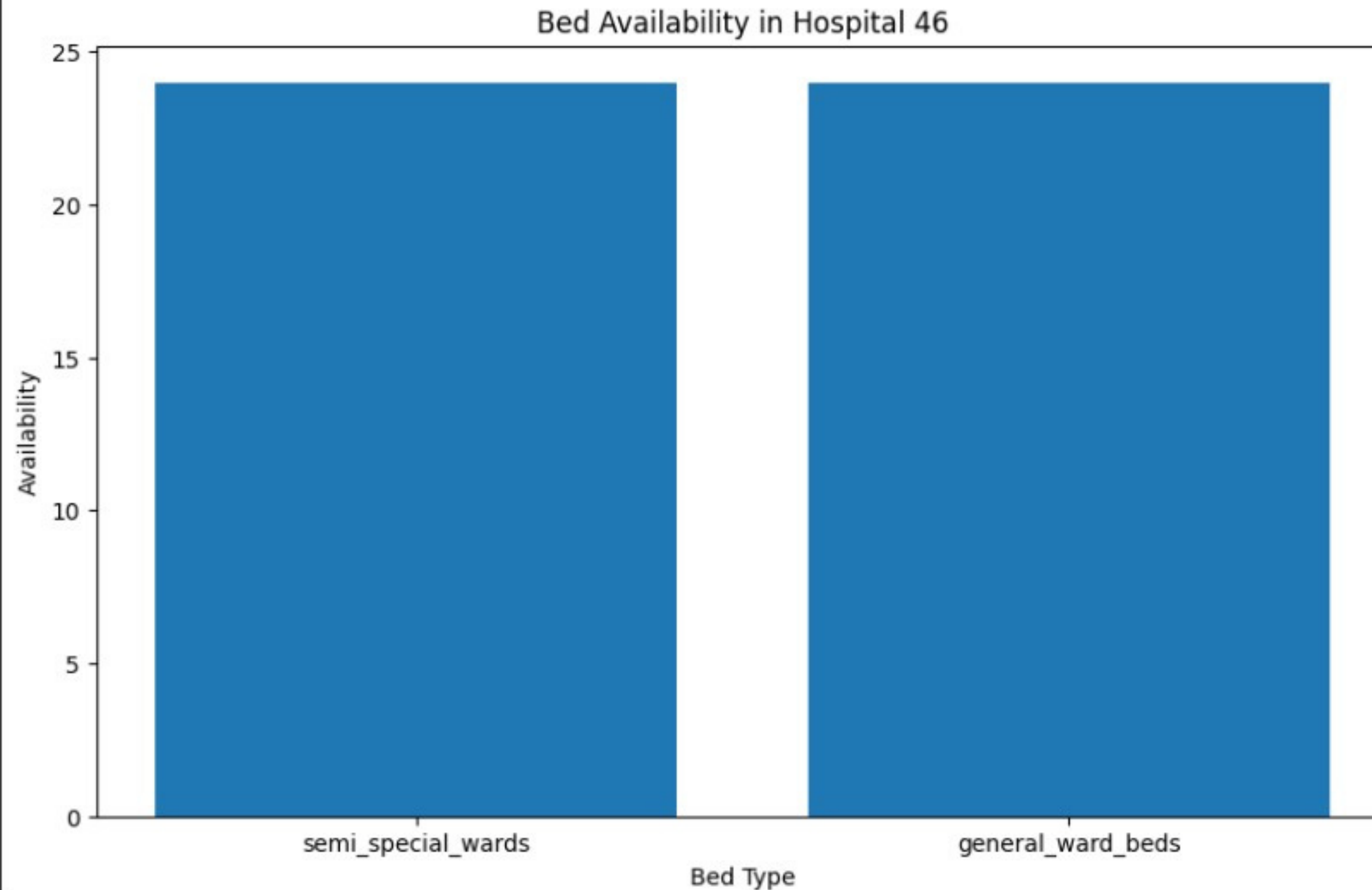
Allocated Beds:

Hospital ID: 58, Bed Type: semi_special_wards

PROTOTYPE IMPLEMENTATION

```
Option 199: Hospital 16 - Available general ward beds: 72
Option 200: Hospital 4 - Available general ward beds: 22
Choose a hospital option: 1
Allocated Bed - Hospital ID: 46, Bed Type: semi_special_wards
```

```
Allocated Beds:
Hospital ID: 46, Bed Type: semi_special_wards
```

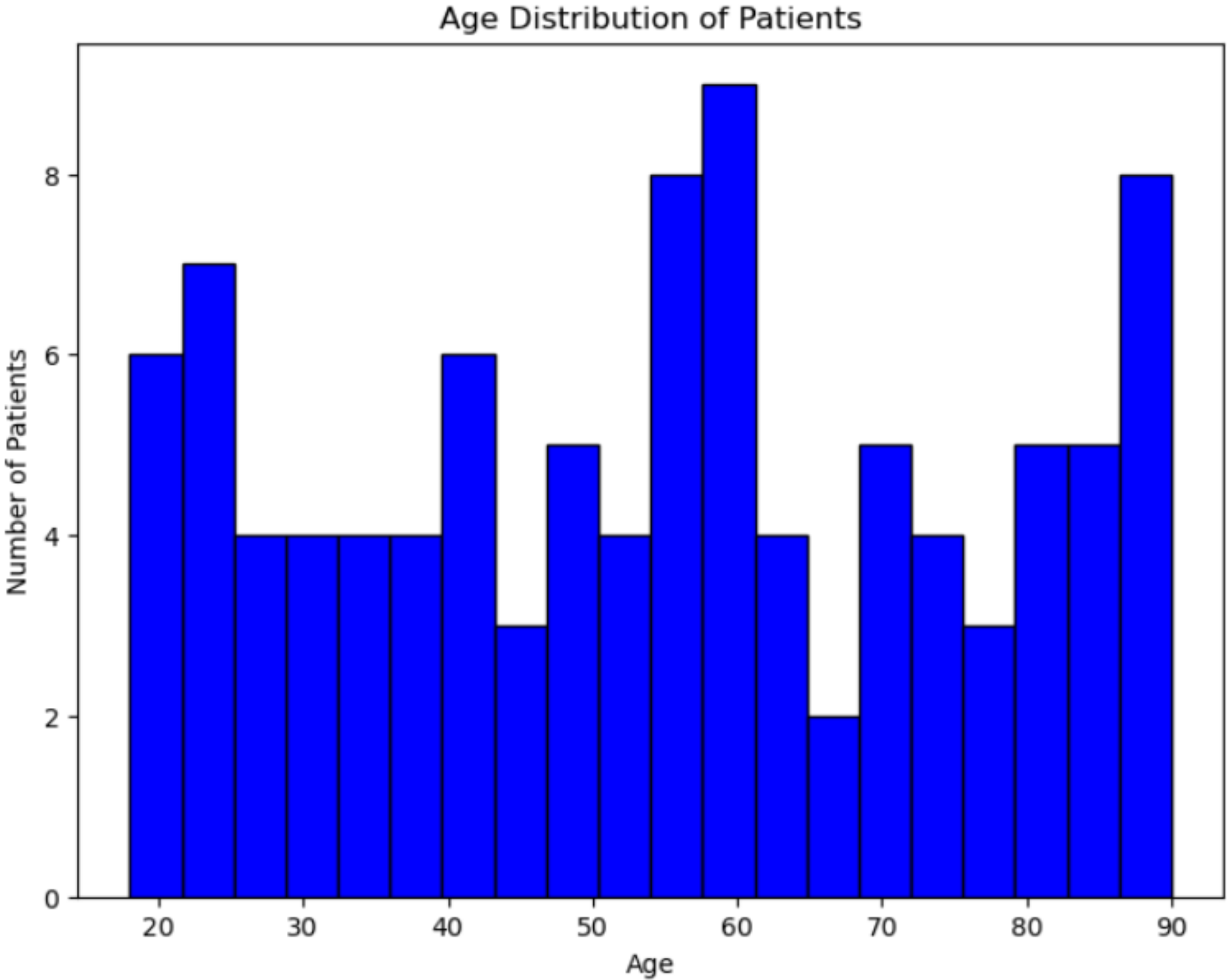


GRAPHS

GRAPHS

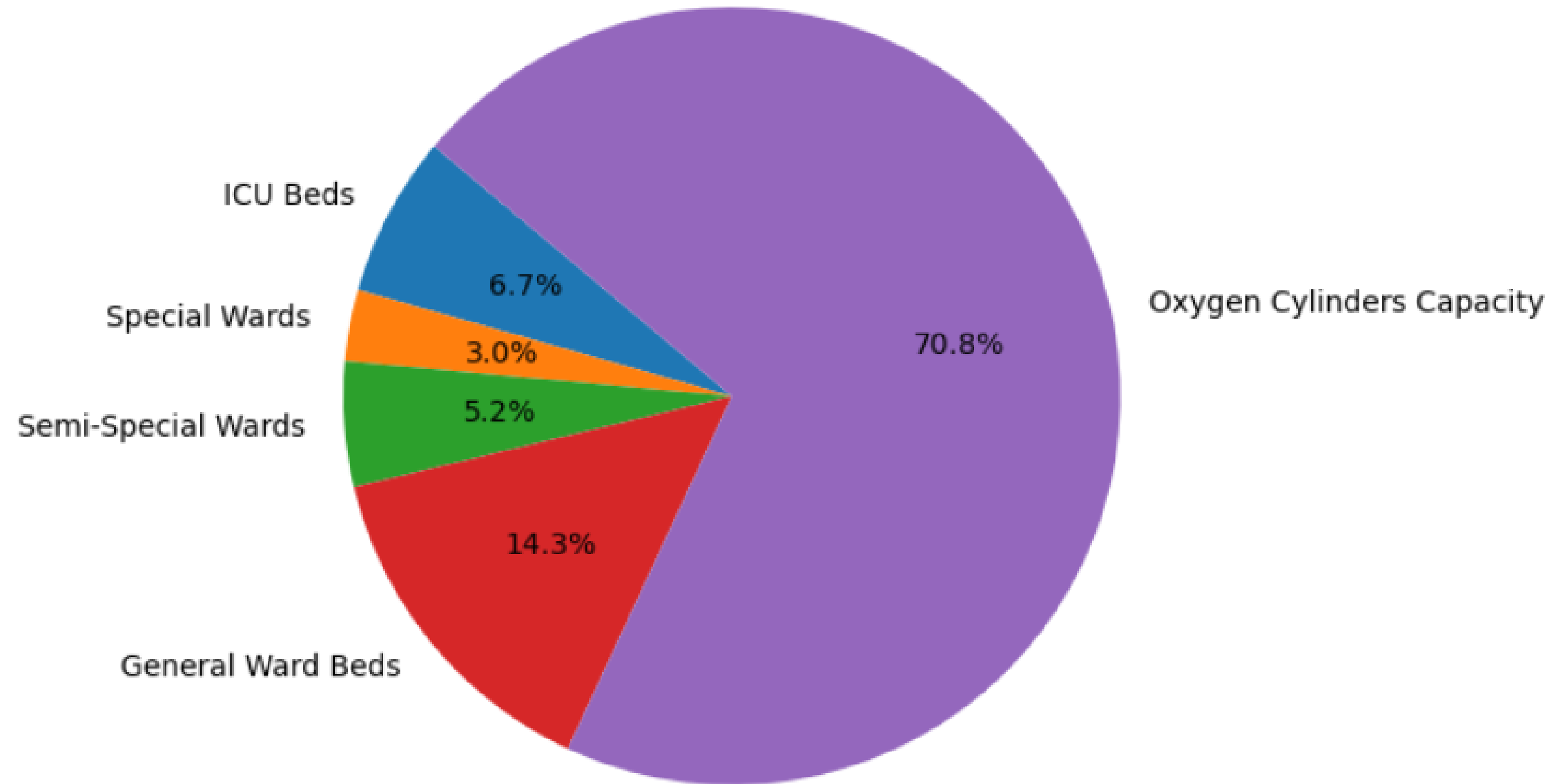
PROTOTYPE IMPLEMENTATION

GRAPHS



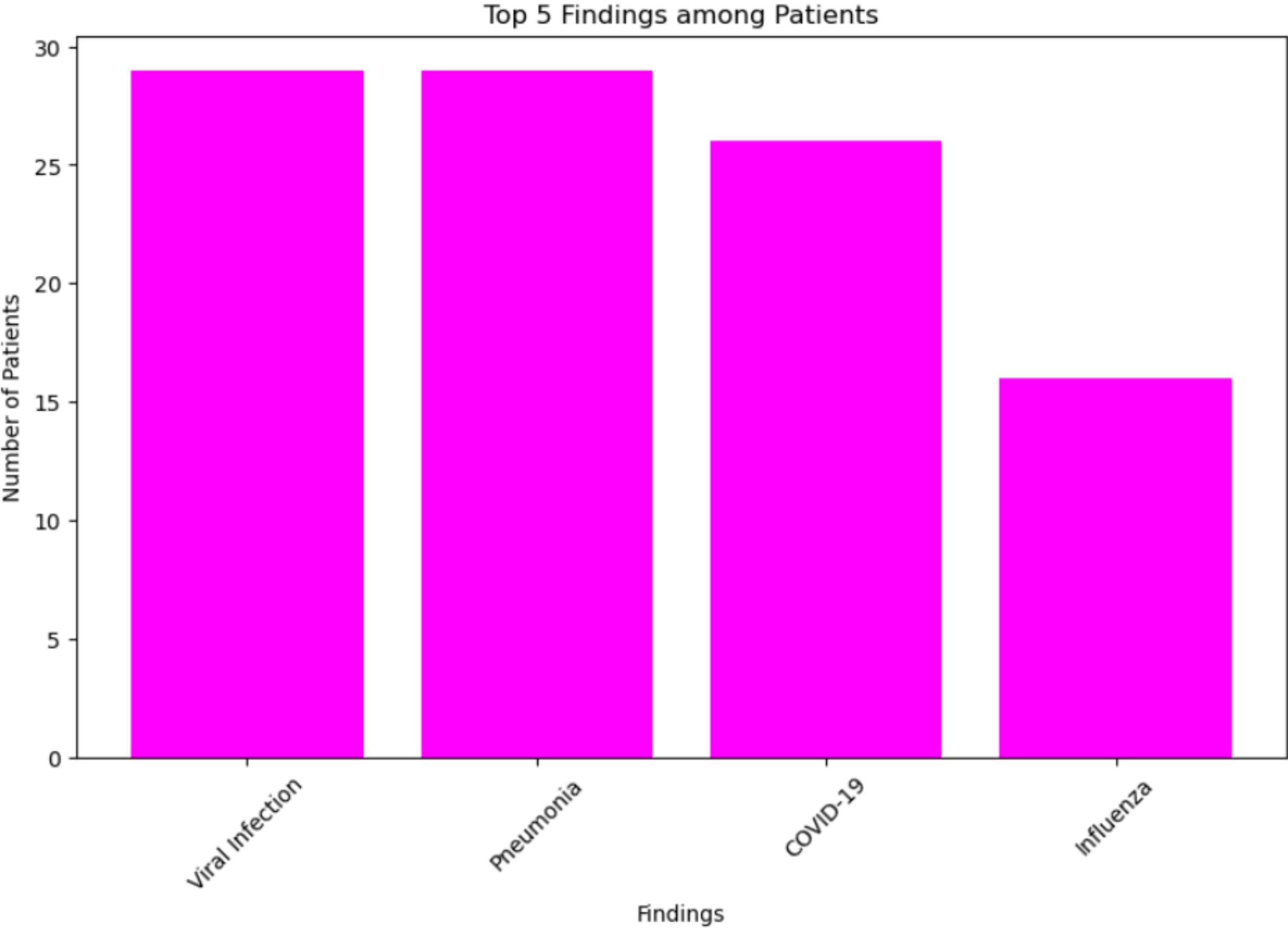
GRAPHS

PROTOTYPE IMPLEMENTATION



PROTOTYPE IMPLEMENTATION

GRAPHS



GRAPHS

REAL-WORLD IMPACT

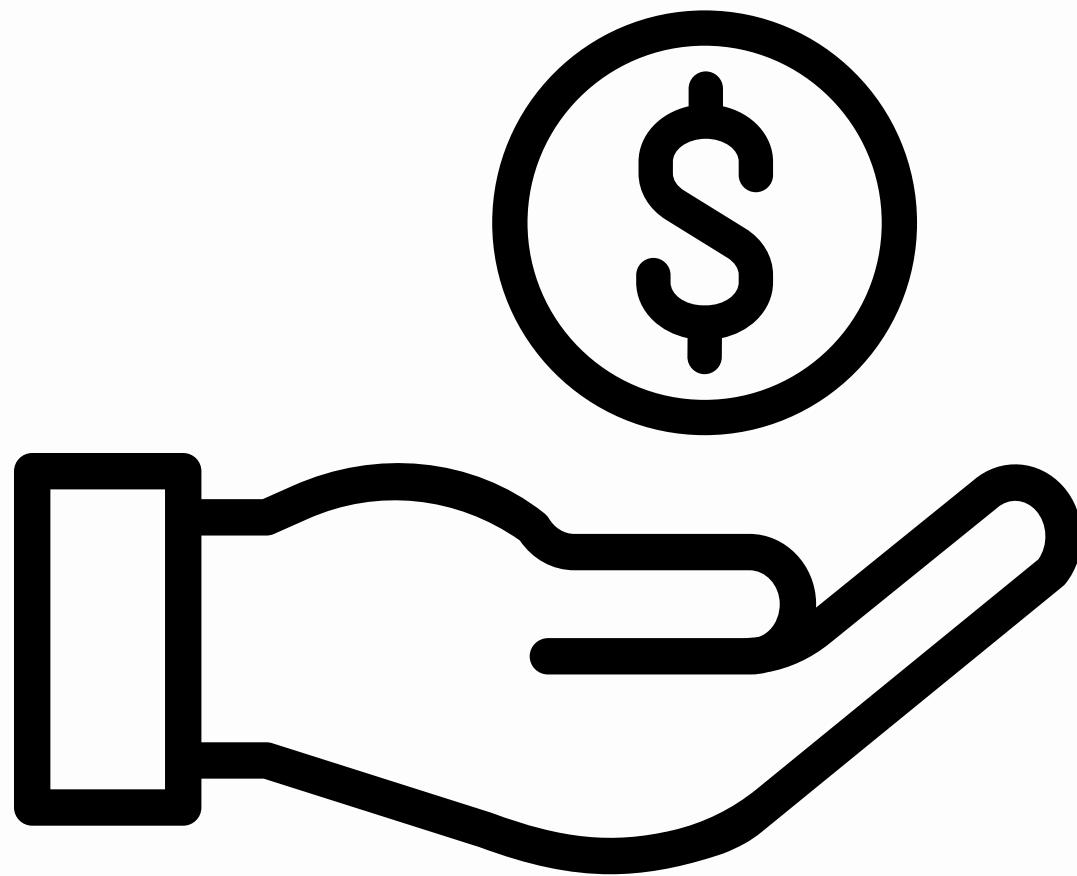


The real world impacts that it will leave are as follows:

- **In future if any one has to find beds or vacant hospitals to admit then they can easily get the suggestion.**
- **Government will have to take less time for decision making as well as for distribution of the supplies.**

BUSINESS POTENTIAL

The business potential that we vision is:



- **As an app we can expand out business to other facilities like**

- 1. Healthcare Workforce Management**
- 2. Laboratory Testing Optimization**
- 3. Medicine Stock Management**

- **Government can allow us to expand for not only government hospitals but also create venture in other health care sectors**

Thank
You

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