FINAL REVIEW

MEDBOX - An initiative to provide access to meds across the nation.

KALIIDINDI MAHESH PAVAN VARMA - 20BCE1131

MOHAMED ASHRAF ALI - 20BCE1630

DEVARINTI DHAPATLA PUNEETH REDDY - 20BCE1852

SANJIL K C - 20BCE1855

V R LENIN VASAN - 20BCE1892

SWETHA ANBALAGAN - 20BCE1978

INTRODUCTION:

What is MED-BOX?

The MED-BOX is an automatic medicine vending machine, that has the capability to receive input from the user and then dispense the required dose and quantity of medicine. The input, here means, the prescription by the physician to the user.

The system features a machine that is capable of handling a complete range of prescription. It gives the availability of medicines all the time, also in rural areas. It is very helpful, it gives ease of access also. It is sales person-less service that is based on a smart card.

MED-BOX can be viewed as an automated pharmacy placed on a commercial scale so that infinite number of user will be able to access it anytime.

MED-BOX will cater to the needs of the customers with no further human intervention required. The machine is user-friendly and is very simple to operate. With this, labor costs will be minimized and it will also give entrepreneurs the opportunity to attract more customers with this innovation. The design is based on simplicity and the utilizations of low cost materials and components that can be easily available.

TIMELINE

REQUIREMENT ANALYSIS AND DESIGN

INTEGRATION AND TESTING

OPERATIONS AND MAINTENANCE

JAN-FEB

FEB-MAR

MAR-APR

BRAINSTORMING

CODING

IMPLEMENTATION AND DEVELOPEMENT

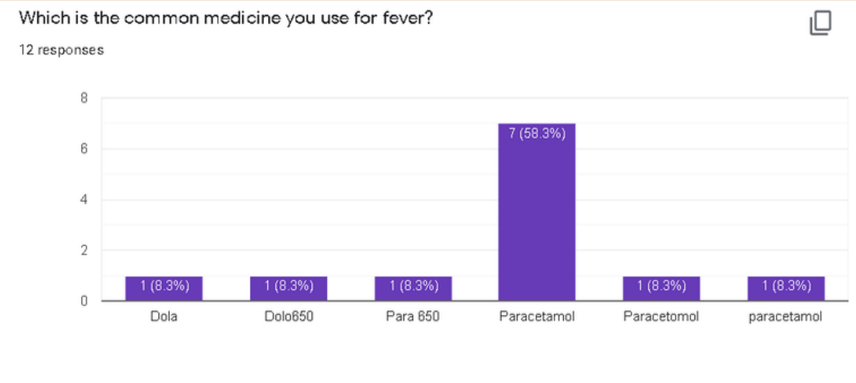
PROCESS SUMMARY:

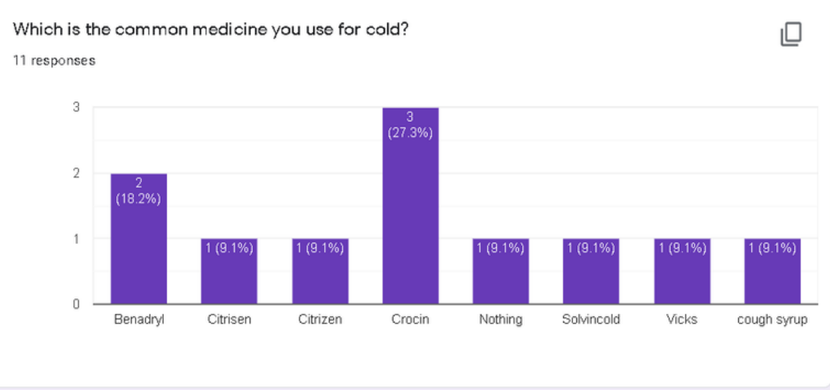
STEP 1: We made a timeline ready, which briefs our work for the project in parts.
STEP 2: We did requirement analysis and had our design ready as per our timeline.
STEP 3: Then we circulated google forms and had their reviews about what medicine do they prefer and according to them and some personal recommendation, then data collecting was done.
STEP 4: About the digital part, we decided on doing website and App.
STEP 5: Our website was completely coded using HTML and CSS while our software's backend and frontend was done using python as per our timeline.
STEP 6: App was done using Proto.io.
STEP 7: Integration and Testing was done once all the digital part was done

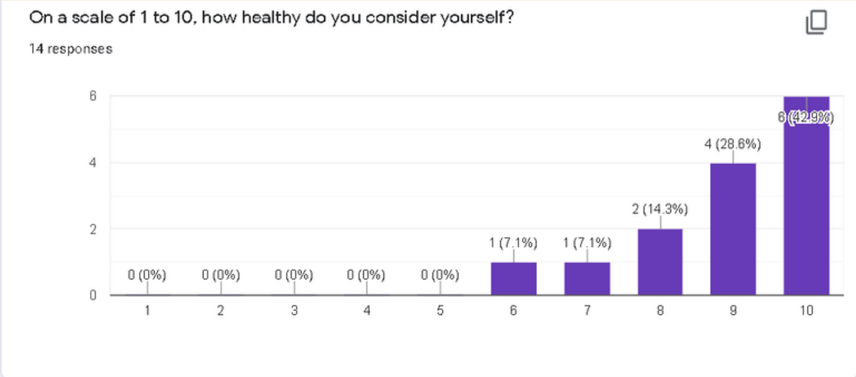
POST PRODUCTION:

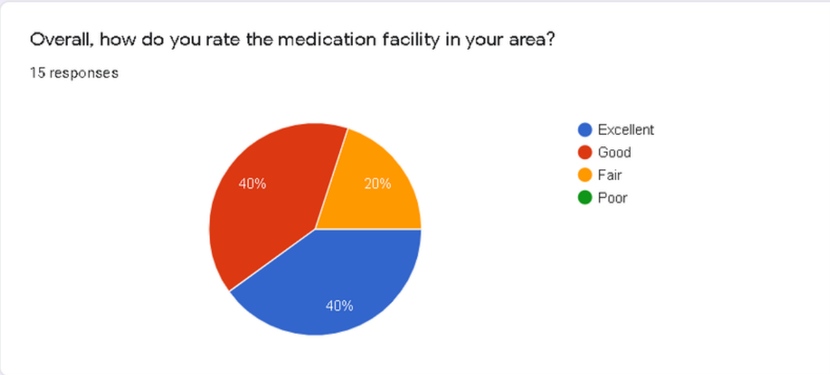
- Regarding Implementation and development, we're unable to do a working vending machine due to poor resources in the pandemic.
- For maintenance and operations we are supposed to refill medicines in vending machines thrice in a month and incase of the websites and software there should be a proper service done once in three months to prevent malpractices in the system which would reduce fake accounts and improve the interface of our website and software.
- Final goal of our project is to provide efficient medication not only in urban areas but also in rural areas. To achieve this, there should be a same number of refill sessions in urban and rural areas.
- Surveys will be conducted every three months, to be in touch with the customers and to know the medicinal requirements.
- customer care offices will be set in every district, with call services/ chat bots

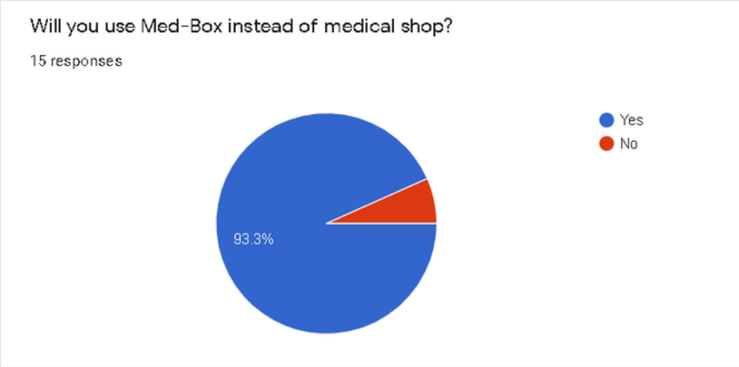
SURVEY DATA:

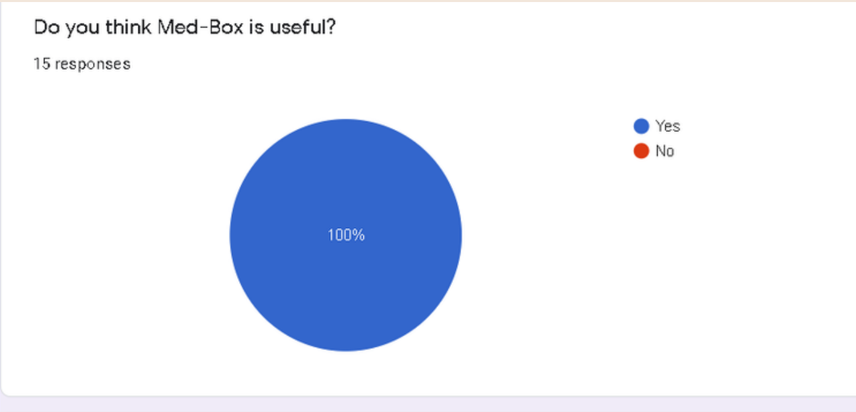


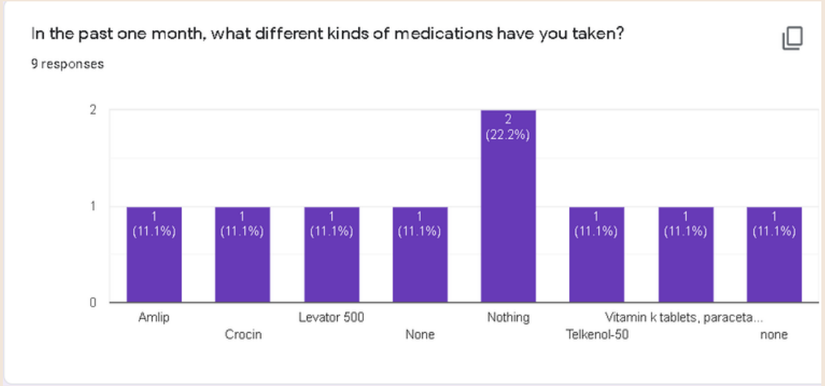












we are happy that people think med box is useful!

OUR WORK

APP

Our Med-Box app contains:

- Patient's Health records
- Pharmacy orders
- Doctor Consultation booking
- Diet plans
- Online medicine orders
- Payment option

WEBSITE

Our website contains:

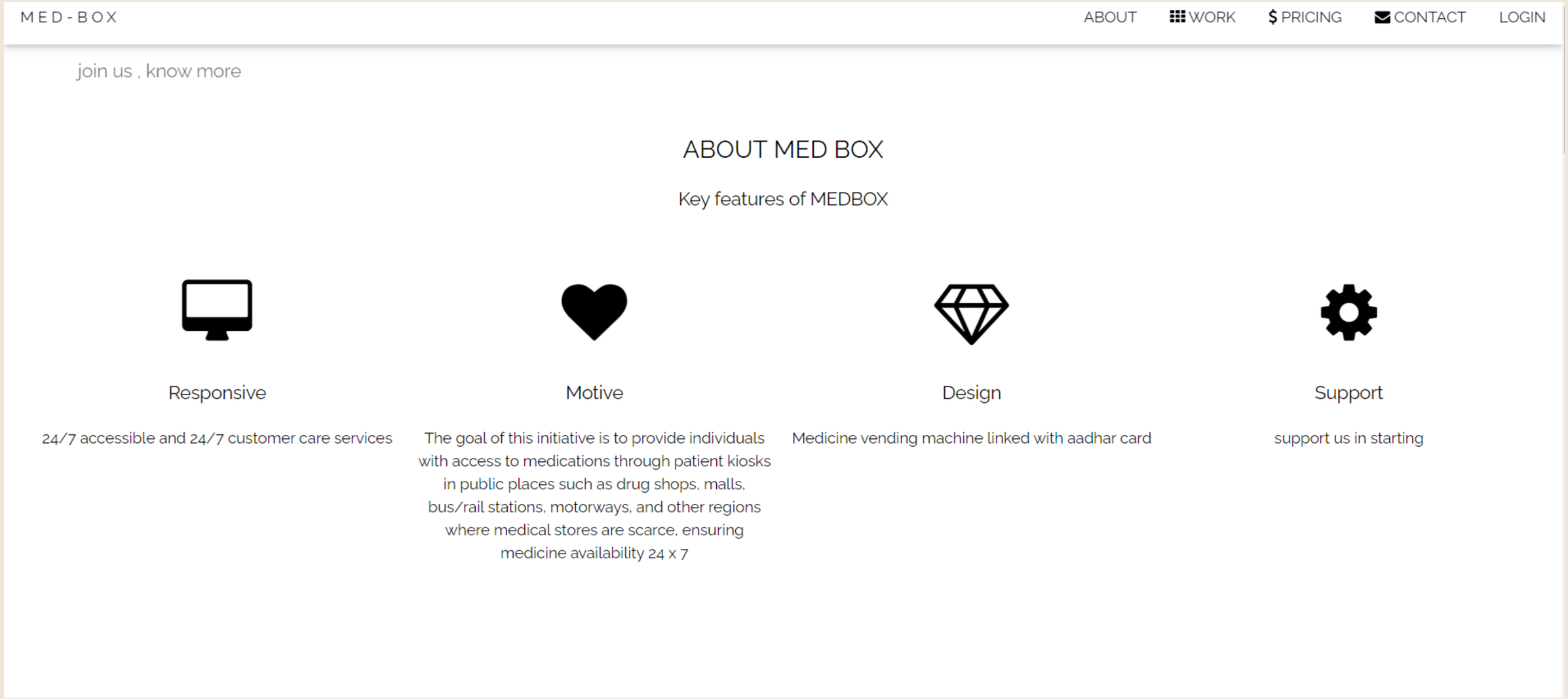
- Login credentials linked with database.
- Subscription plans
- About us and the website
- Our Motive
- Our Contact details

SOFTWARE

Our software shows:

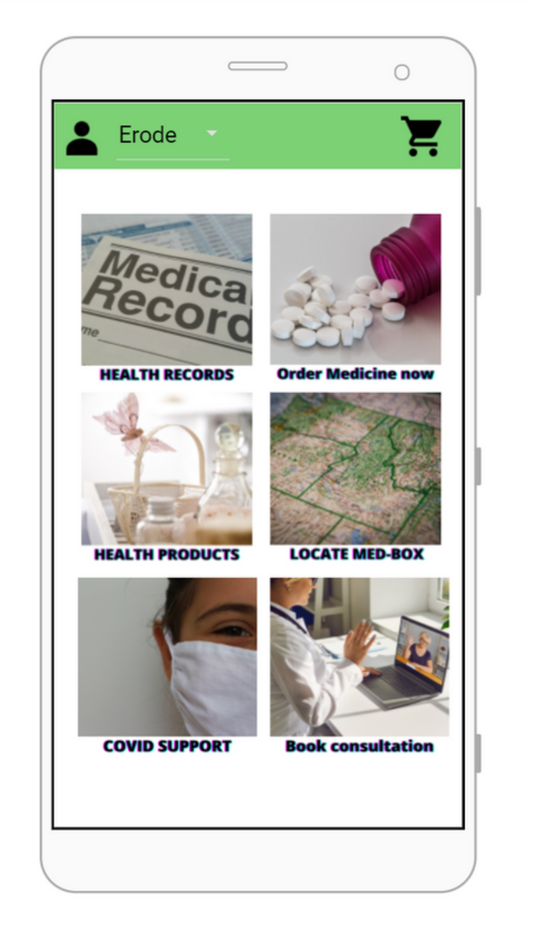
- Availability of Medicines with their images
- Price of the medicine
- Payment option and Bill

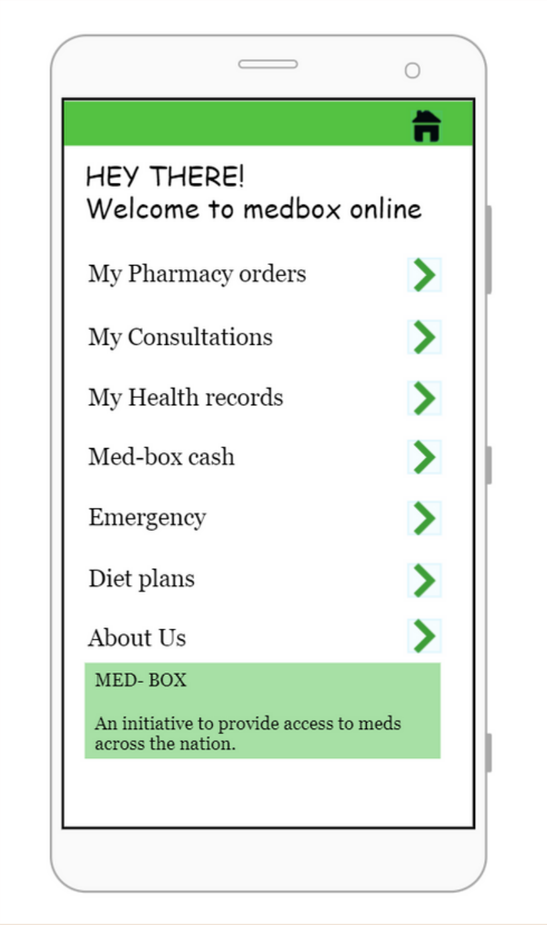
WEBSITE

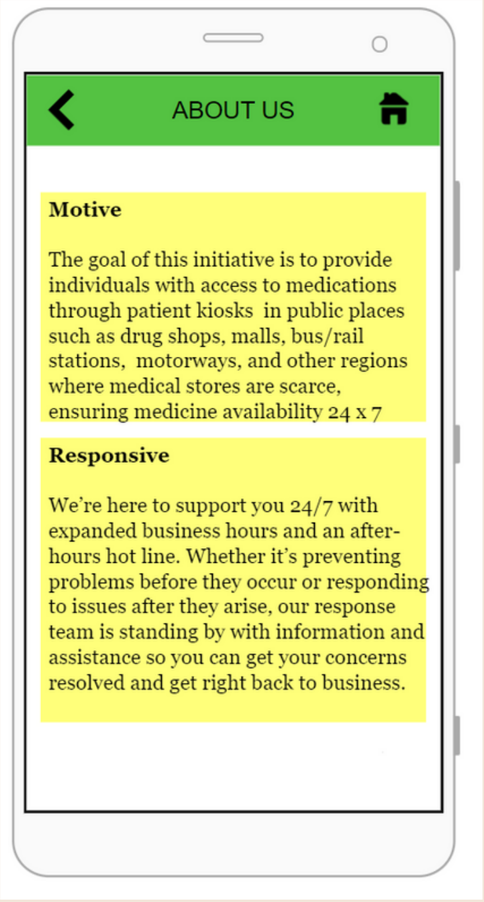

M E D - B O X
ABOUT
WORK
$ PRICING
CONTACT
LOGIN
join us , know more
ABOUT MED BOX
Key features of MEDBOX
Responsive
24/7 accessible and 24/7 customer care services
Motive
The goal of this initiative is to provide individuals with access to medications through patient kiosks in public places such as drug shops, malls, bus/rail stations, motorways, and other regions where medical stores are scarce, ensuring medicine availability 24 x 7
Design
Medicine vending machine linked with aadhar card
Support
support us in starting

ANDROID APP

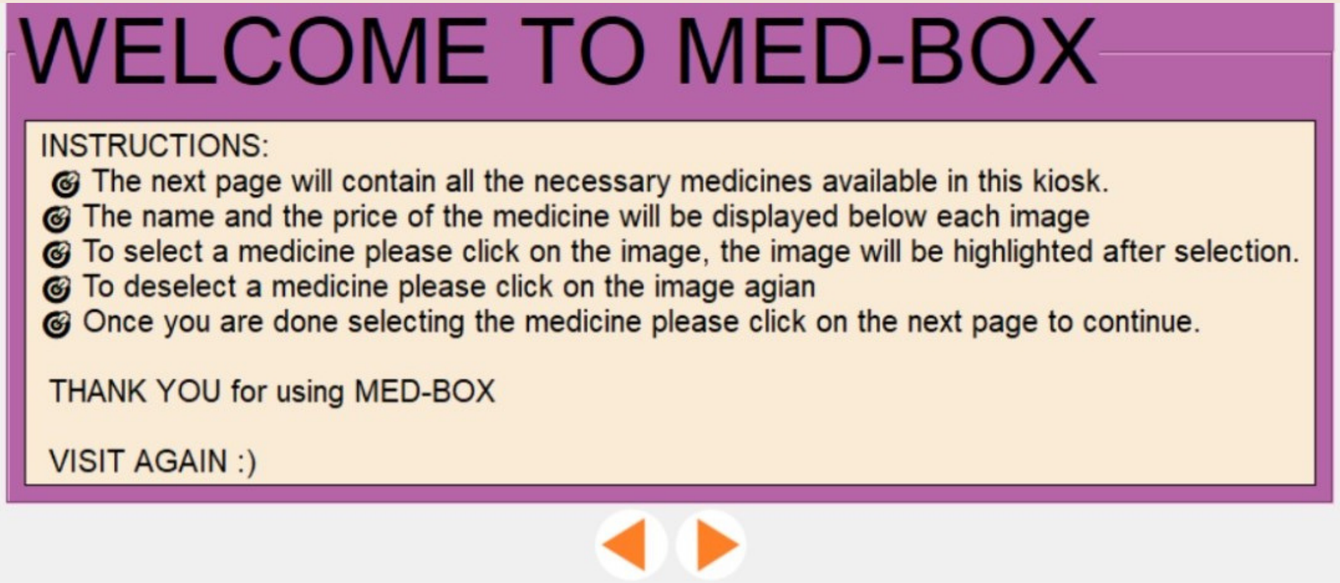
Other interface is an andrioid application for the users to access their details and view their health records and information regarding their consultations.





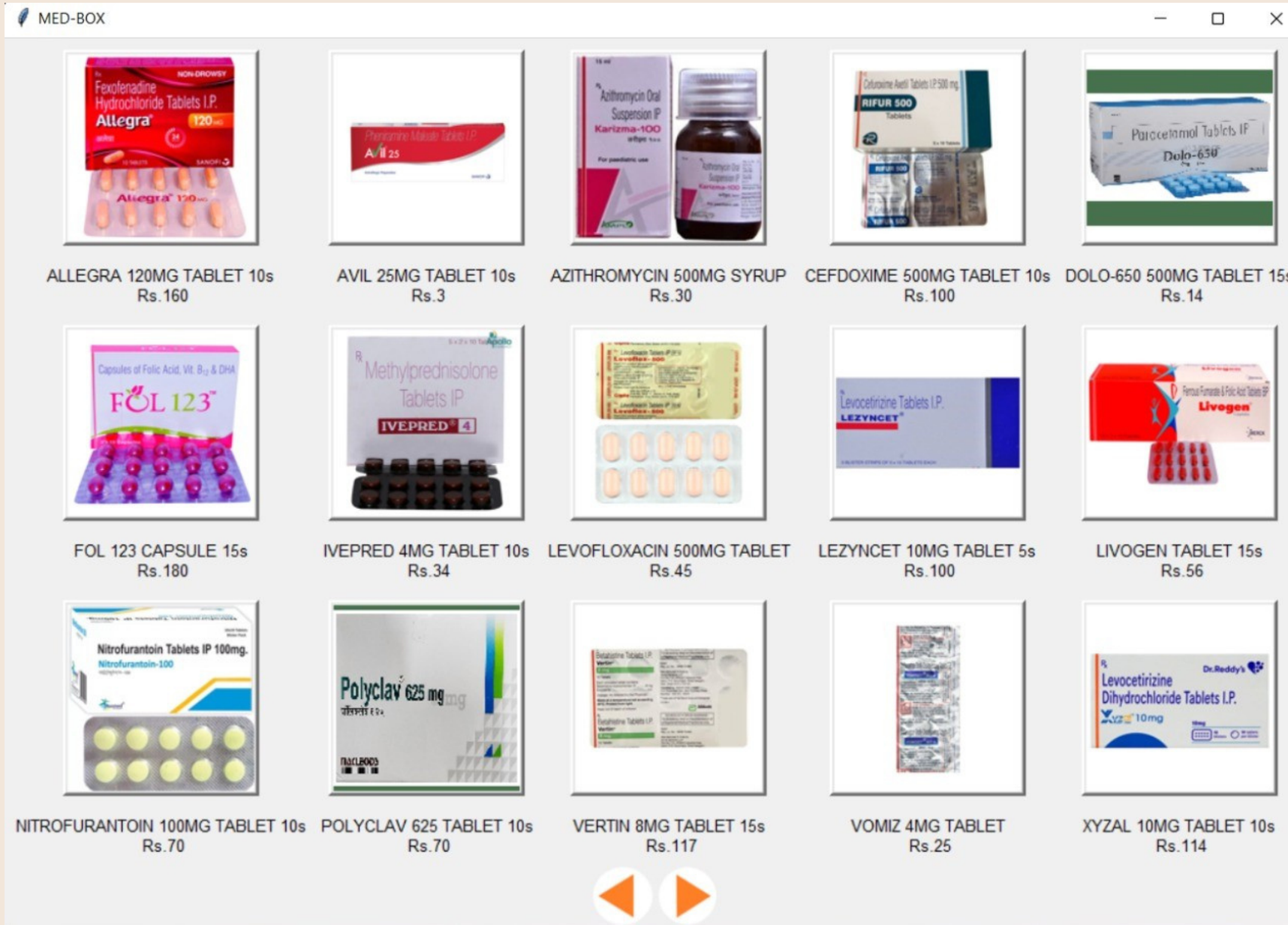


SOFTWARE



Instead of working model, we developed a software which then can be transferred into a chip that can be inserted into a normal vending machine.

Medbox software is easy to operate even for illiterates, due to the pictorial representation of all the medicines.



ADVANTAGES

- The aim of this prototype is that temporary relief is to be given out that can give rural people a better chance for resisting the health from withdrawing before they are able to reach doctor.
- Major advantage is that people would be able to access the drugs via patient kiosks in public places such as drug stores, malls, bus, railway stations, on highways, areas where medical stores are limited.
- Medicine vending machines will become increasingly popular as a convenient way to purchase prescribed medications.
- They are used to dispense products to customers without the involvement of staff or human assistance on a 24-hour basis, and in this Covid-19 scenario, thus giving a great alternative for pharmacies.
- This will only need a short amount of time to keep them serviced and stocked with products.

DISADVANTAGES

- This dispensing machine might be efficient in many ways but it does not eliminate all possible errors.
- It’s still possible for the pharmacy to stock the wrong medication.
- Physicians can pick a similar-looking drug from another drawer.
- Since, this machine is an electronic device, it can malfunction at any critical time.
- Healthcare facilities must be prepared for emergencies. They should have separate kits containing resuscitation and critical care drugs.

CONCLUSION

- As Result of this project the people would be able to access the Medbox 24*7.
- It provides OTC medicine for general symptoms like fever, High B.P, headache and sprain and first aid along with prescribed medication.
- This machine can be installed at bus stations, railway stations and streets of the city.
- Drugs can be made available in affordable rates.
- Each person accessing the machine can use their Aadhar ID by which the user can be identified.

FUTURE PROSPECTS

- Prospective customer survey / study should be planned in order to understand Indian users for such a machine.
- Block diagram would be detailed out for each block and module development would be started.
- Legal, medical and administrative aspects would be studied for feasibility study and further changes in design.
- Further hurdles would be funds, timely resource availability & formation of think-tank team.
- Aadhar card module implementation should be confirmed by the government.