



VACCINATION SLOTS

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1. Abstract

The study examined the environment of an infectious pandemic, vaccines are a primary public health strategy to prevent the spread of disease. With the COVID-19 pandemic, there is heightened interest in safe and effective vaccines and their use in the context of clinical oncology practice. We have designed a portal for registration of COVID-19 vaccine. Where you can register your vaccination slot according to your comfort. Get registered, fill all the required details of yours, choose the location nearby you and get vaccinated safely. The objective of the document is to handhold the citizens to register and schedule an appointment for vaccination.

COVID-19 Vaccination Slot Finder

- ① Locate vaccination center nearest to your home
- ② Check current availability of vaccination slots
- ③ Get promptly notified about available vaccination

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State ▼

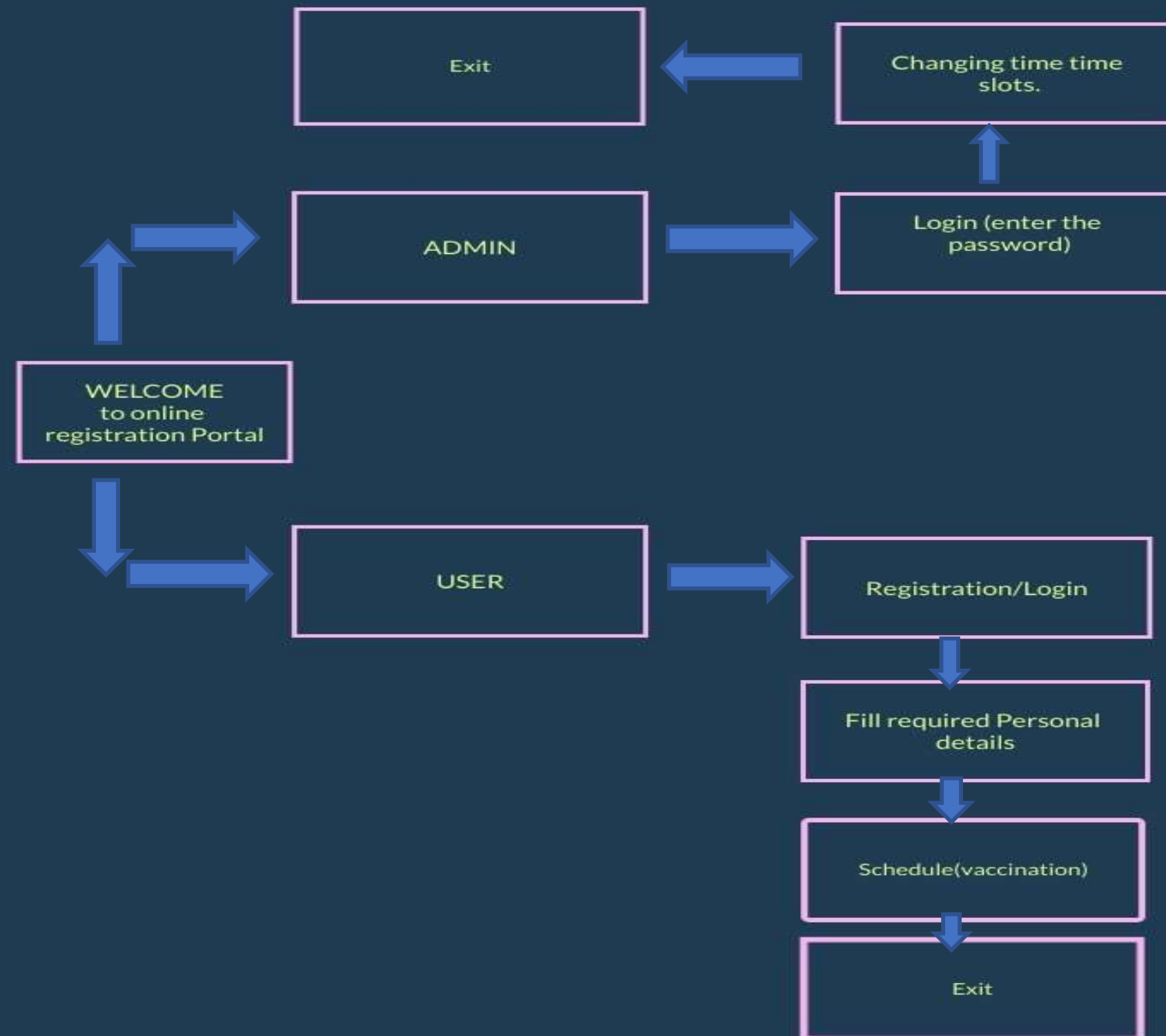
District ▼

[Find Vaccine Centres →](#)

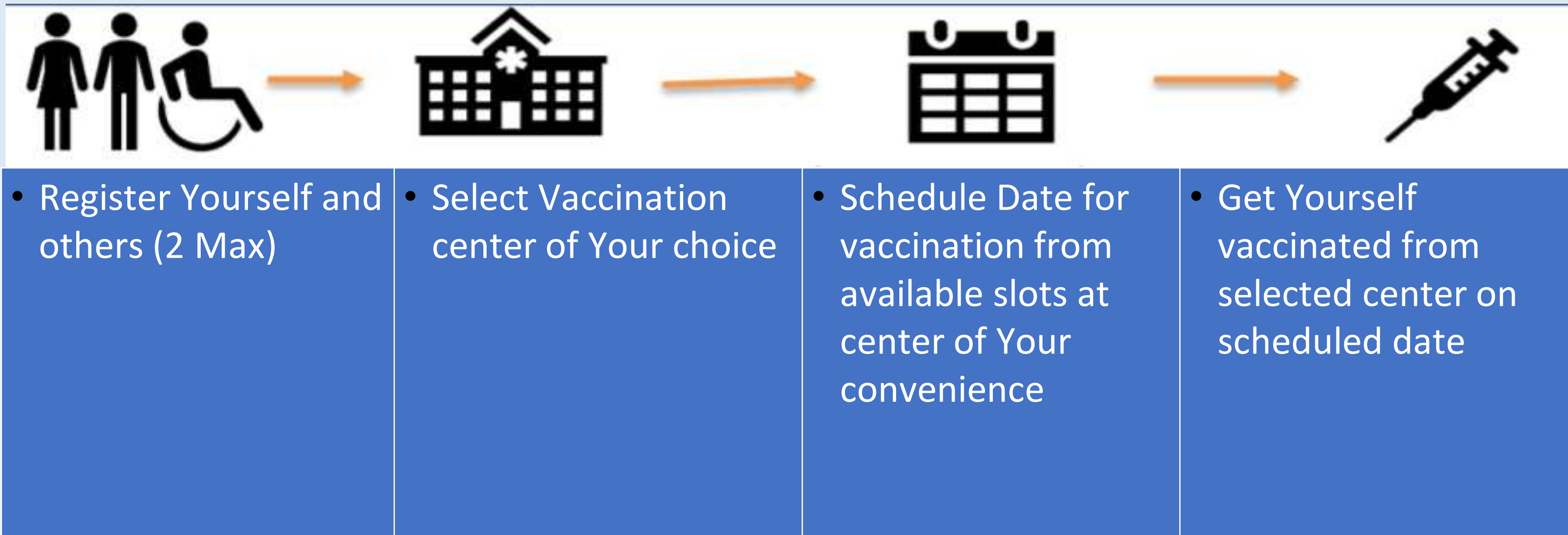
2. Introduction

- Government of India is taking all necessary steps to ensure that the nation is prepared to face the challenge and threat posed by the growing contagion of COVID-19. The exemplary groundwork and precaution advisory by the Government has helped in containing the spread of the virus in our country. At present, the priority is to make COVID -19 vaccine available to all, ensuring vaccine traceability and beneficiary tracking from production to last mile administration.
- Co-WIN application is an amazing platform introduced by the government where users can easily book their slots ,according to price, date and time. We have also created a portal on the similar lines where we have an admin login as well as a user login. The user login is the portal where users have access to slot booking which saves a lot of time from actually going to the respective hospitals and from spreading the virus as well. The admin login is like an administrator who can control the number of slots allocated , increase or decrease the price basically depending on the needs so that more and more people are vaccinated.

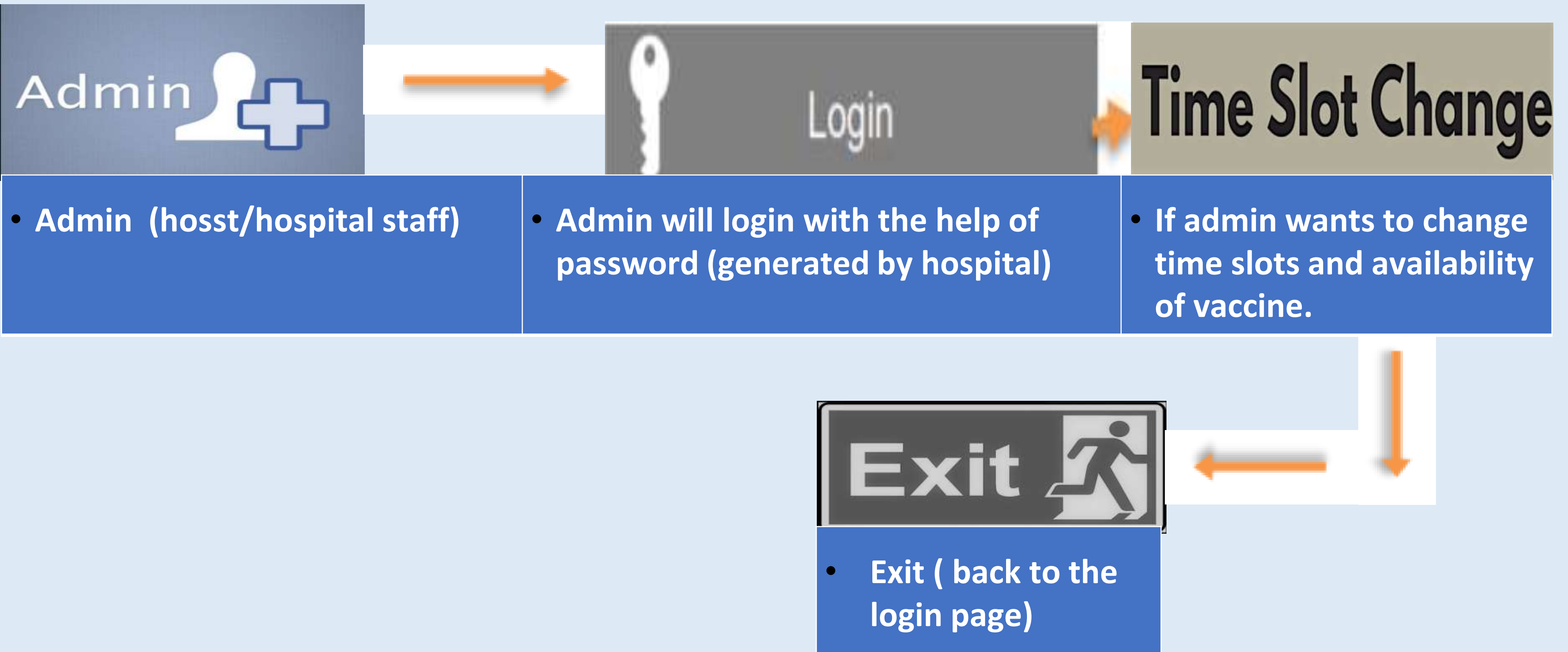
3.Flowchart



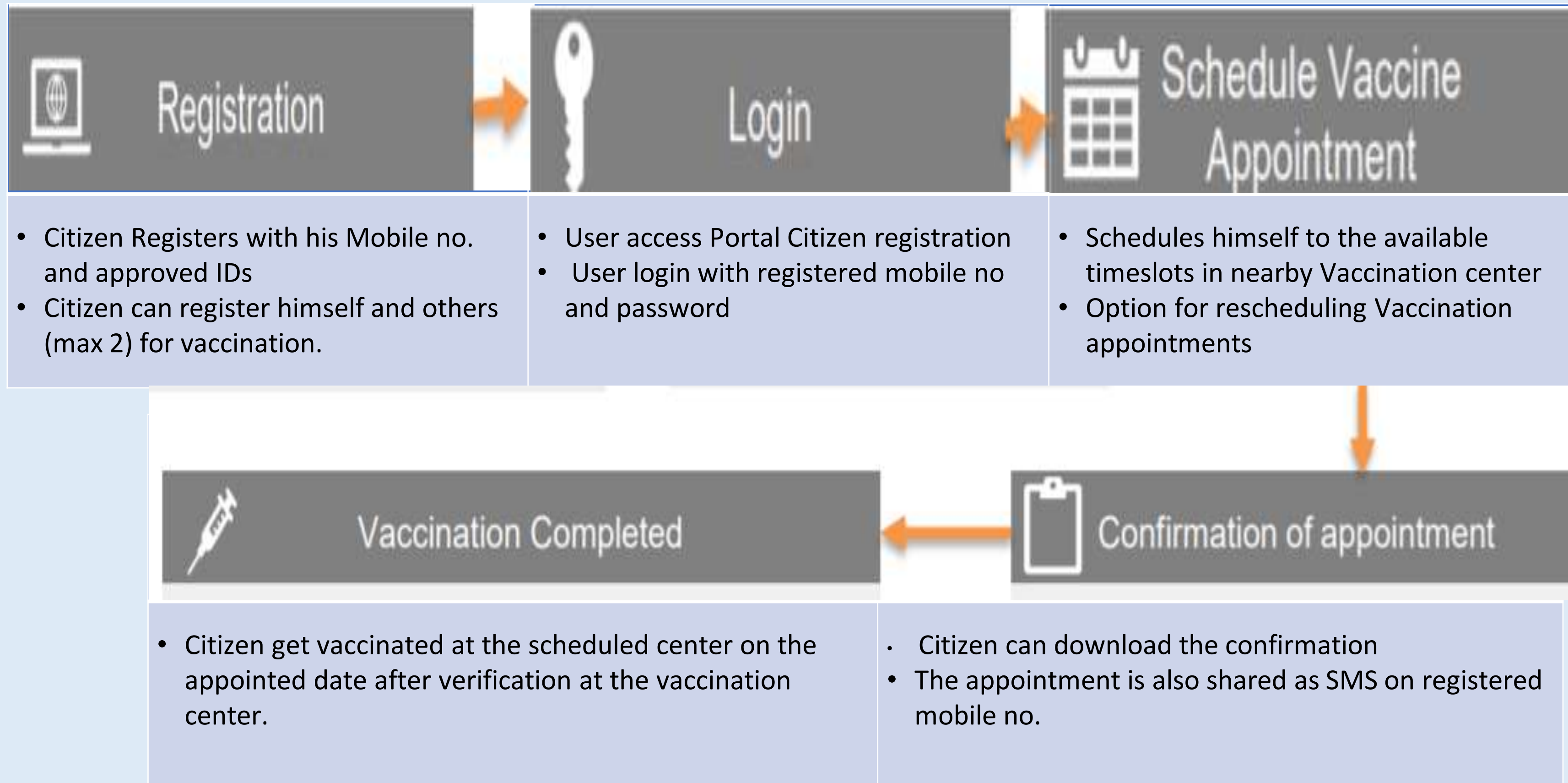
4. Steps for self Registration



5. Workflow of Admin



6. Workflow of User



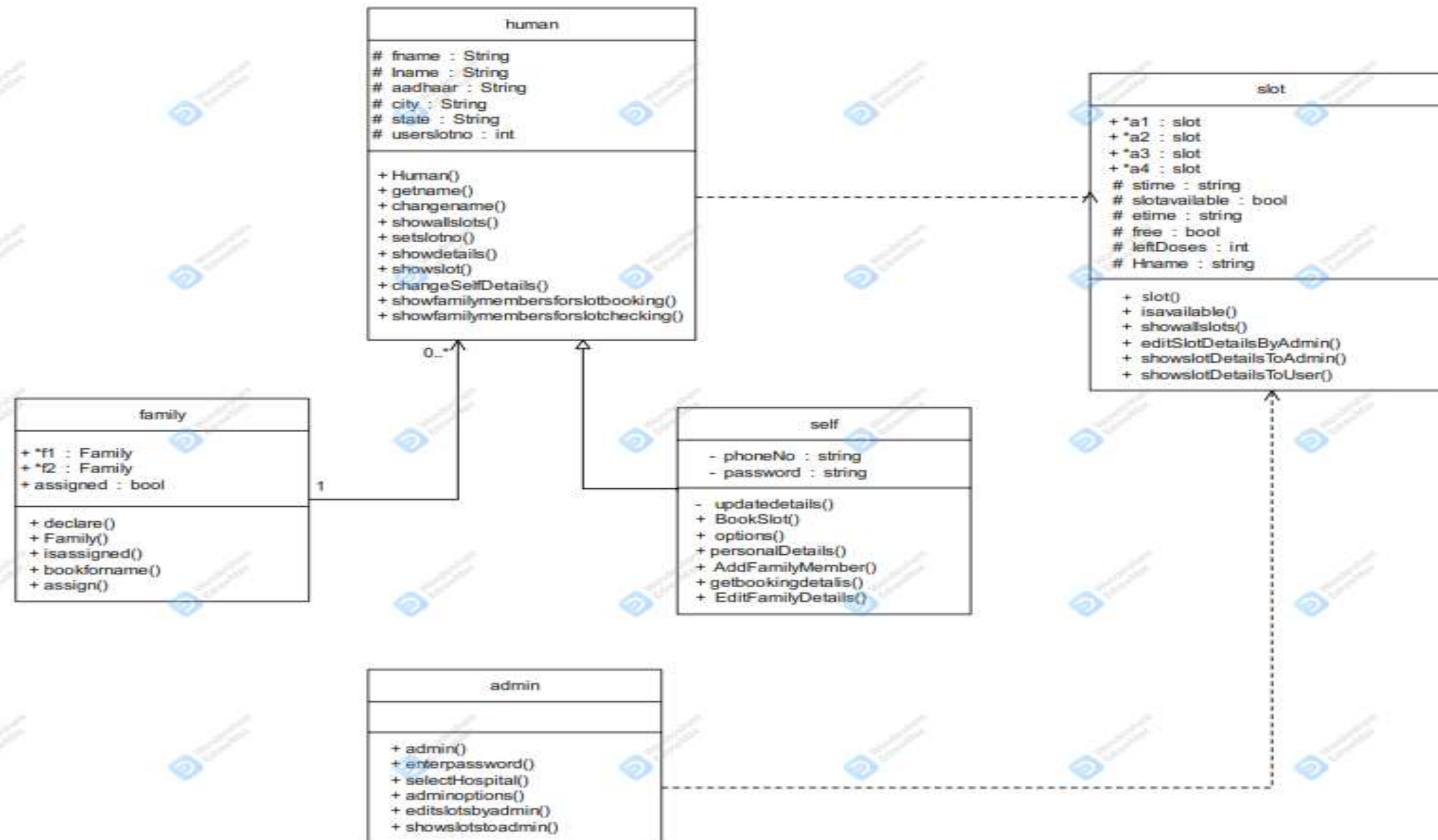
7.Explanation

- We have created a very important class which is not inherited from any class but plays an important role in our project. So basically, we have created 4 slots s1,s2,s3,s4 which consists of information related to time and if the slot is free or paid as well. In order to access these elements, we have created 4 static variables of type slot,(example static slot* a1;)which can store the address of the objects of the slots(ex: a1=&s1) and because we have created the objects s1,s2,s3,s4 in the main function so throughout the execution they will not get killed and the properties can be accessed or changed anywhere anytime by using the syntax: slot::a1->(variable or function of class slot);
- Secondly , we have created an admin class, which enjoys certain privileges which the user class that we have created doesn't. Using the static variables of type slot that we created in the slot file, we give admin the liberty to access its properties and change the details accordingly. So, for example, if a slot has a paid interval between a certain period of time, admin can make it free for all, or if he wants to change the timings of an interval, he can easily access it through the functions created for the same.

Explanation

- Lastly, we have our rest 3 classes Human class(Parent class), Family class(Derived class of Human class), and Self class(Derived class of Human), Human class have all properties of a normal human like first name, last name, etc and methods like changeSelfDetails() to change his/her name, aadhaar no, etc. and bookslot() for booking a slot either for self or for any of family member.
- Family class again have static pointer variables of type Family (again to store the addresses of family members which we have created in the main function to access throughout execution)
- Self class which is the very important class because in this Self class all the functionality (methods like bookslot, add family members, edit family details etc) of user is either stored or inherited.

8.UML Diagram



9. Conclusion

- ✓ Cowin application by the government has been a success, it has helped users get vaccinated, we have also created our project on a similar line and if we could also make our project on a larger scale, it could also help millions of users get vaccinated. We have included all the major details necessary for the identification of the user so that if there any issues, it can be looked in the database. The UI is very friendly as well, it shows exactly what the user has the to do so that they don't get lost anywhere.

