

Covid-19 Vaccine Registration System

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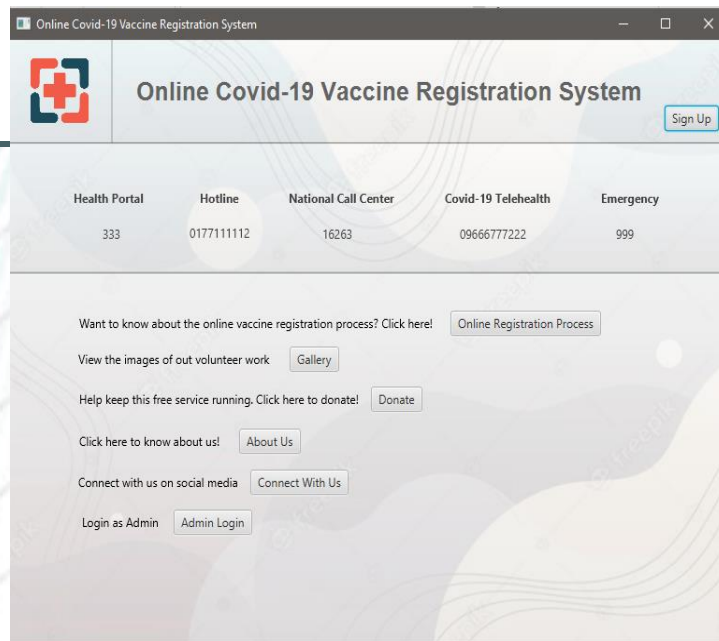
Date

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Advanced Object-Oriented Programming
Laboratory
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INSTRUCTIONS

1. At the very beginning user has to sign up providing all details he/she is asked for
2. After providing details click submit button to register
3. It he will receive confirmation message then it will indicate that your registration is completed
4. If you do not receive confirmation message then you will have to wait until the vaccine becomes available for us to provide people again
5. Once the vaccine becomes available then we will contact you as soon as possible by your provided phone number



THE PROCESS

Registration

First a user needs to register to get the vaccine. The user will be asked First Name, Last Name, NID Number, City Corporation Information, Municipality, Vaccine Center (Preferred by the user), Permanent Address, Postal Code, Password, Occupation, Gender, Date of Birth, Vaccination details, Medical Condition (If any, i.e. allergic to something), Phone number, Email address, Checkbox to select if the user will prefer to receive latest updates about vaccine through emails or not.

The provided password should match with the current password otherwise you will not be able to register.

Finally, after pressing the “Submit” button the registration will be completed he we will receive a congratulation message through Java Networking if there are available vaccines in our end.

The occupation field has been handled by a combo box. We have created an observable list consisting of all the possible occupations, and have added the list to the combobox. The date of birth field was handled by the Date Picker element of JavaFX. Perhaps the most vital information, the desired vaccine registration centre, has also been handled with the help of several combo boxes. First, we have created an observable list for each of the 7 city corporations in Dhaka city. Next up, we have added the numerous thanas inside of the respective city corporation observable list. Next, we have added the different hospitals and vaccine centres available in the respective thanas. Finally, we have added the lists to the designated comboboxes. After this, we have handled which hospitals become available to what user location by using several if else blocks.

Depending on the availability or unavailability of vaccines, the users are greeted with the congratulations dialogue box or the registration unsuccessful dialog box. The congratulations dialogue box works as a confirmation for the user, as it

contains the user's unique NID, their first and last name, their desired vaccine centre and finally the date for their vaccine dose.

If any user do not receive a confirmation message, rather told to wait then his information details will be stored in our admin panel in the pending registration list from where we will be keeping the track of

pending registrations and request them to wait until sufficient amount of vaccine becomes available to us.

Once sufficient amount of vaccine becomes available to us, we will update the vaccine availability option in the admin panel and contact all the users whose registrations were in pending list to register again

Admin

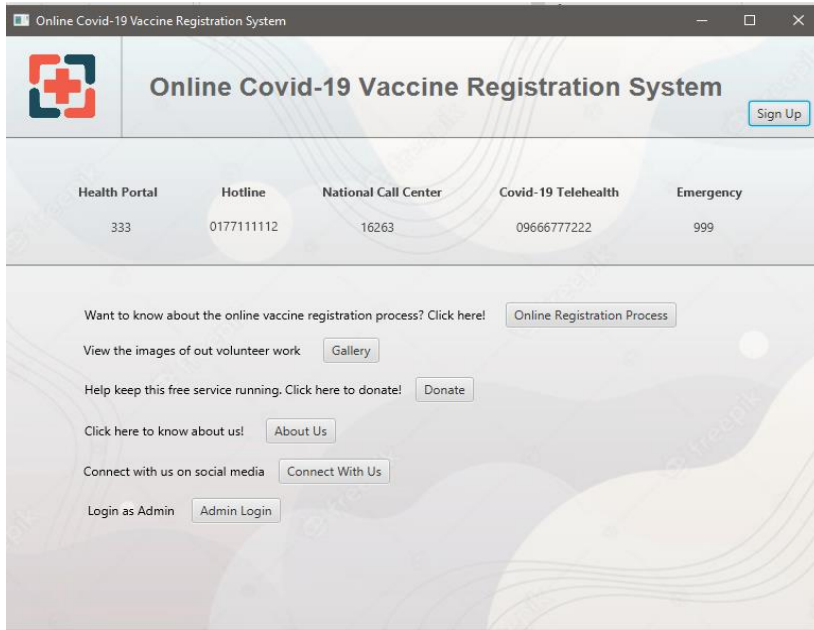
Here we will have information about the number of people registered and their details including their phone number. Also the number of people who could not register because of the unavailability of vaccines and their information details. By these provided information we will be able to send the registered person SMS to let him know when in which date he should go to the vaccine center and get himself vaccinated.

Admin will have to update vaccine availability feature from the admin panel whenever new batch of vaccine arrives and contact the users whose registrations were in pending list and instruct them to register again. In the "Update Vaccine" field we will update the amount of vaccine we will add. Then increment that value with the current value.

We have handled the vaccine count, registered user count and the pending user count via the vaccineCount.txt file. Everytime a user signs up or tries to sign up, this file is appended with new lines of information. Of the 3 columns of information, the first token represents the number of vaccines available currently. The next token is for keeping track of the number of registered users, and the final token is for the pending users. With every new user, this file is appended, and a newly updated line of information containing the vaccine count, registered and pending user count is written. This file has been handled from the customerLoginController class. Moreover, this file is also accessed and updated from the admin panel, namely the adminHomePanelController class. When vaccine count reaches 0, it can be updated from the onClick_btnUpdate of the admin panel. The functionality of this button is such that it reads the string number written in the UpdateVaccine text field, parses it to an integer value and adds to whatever the current vaccine count is, and writes it in the first column of a new row of the vaccineCount.txt file, with no changes being made to the other two columns of information (registered user count and pending user count).

The screenshot displays the 'Online Covid-19 Vaccine Registration System' Admin Panel. The header includes a logo and a 'Sign Out' button. The main content area is divided into three columns: 'Registered', 'Pending', and 'Volunteers'. Each column contains a list of user details, including Name, NID, Address, and Contact Information. On the right side, there are input fields for 'Vaccine Availability' (set to 0), 'Total Registered' (3), and 'Total Pending' (2). Below these is an 'Update Vaccine' input field and an 'Update' button.

Covid-19 Vaccine Registration System UI Design



In the Main dialogue box we provided some useful information such as

- Health portal: 333
- Hotline: 0177111112
- National Call Center: 16263
- Covid-19 Telehealth: 09666777222
- Emergency number: 999

There is a signup button at the top left corner from where the user will be able to **sign up** and register following the registration process.

- The user is capable of viewing the images of volunteer work performed by the volunteers by clicking of **“View the images of volunteer work”**.



- If the user clicks on “**Online Registration Process**” he will be able to figure out the registration process.



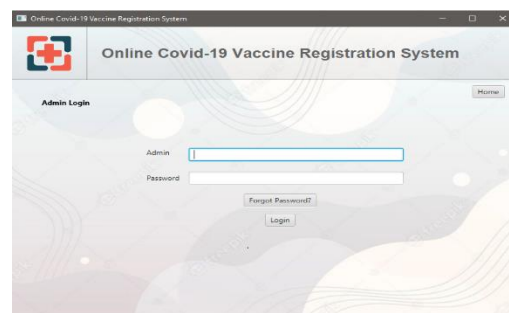
- If the user clicks on “**About Us**” he will be able to see the information about us



- If the user clicks on “**Connect with Us**” he will be provided with information through which he will be able to connect with us.



- There is a button for the admin to login from where the admin will be able to monitor all the software activities and update vaccine availability.



The screenshot shows the login interface of the 'Online Covid-19 Vaccine Registration System'. At the top left is a logo consisting of a red cross inside a blue square. To its right is the system's name. A 'Home' button is in the top right corner. The main area contains two input fields: 'NID No.' with the value '324234234' and 'Password' with masked characters. Below these are buttons for 'Forgot Password?' and 'Login'. At the bottom, there is a link for users interested in registering as authorized admins.

Online Covid-19 Vaccine Registration System

Home

NID No. 324234234

Password

Forgot Password?

Login

Interested in registering as an authorized admin? [Click here to register today](#)

The user will have to complete the registration process clicking the “**Click here to register today**” button. If he has already registered then he will have to login using his NID No. and password.

If the password matches then the Dashboard will appear

The screenshot shows the dashboard of the 'Online Covid-19 Vaccine Registration System'. It features a top navigation bar with the system name and a 'Sign out' button. Below this is a 'Dashboard' section with buttons for 'History', 'Check Notifications', 'Update profile', and 'Sign out'. The main content area is divided into two rows of interactive buttons. The first row includes 'Send Donation' (with a 'Donate' button), 'Find out next due date' (with an 'Upcoming dose' button), and 'Vaccine availability near you' (with a 'Vaccine Availability' button). The second row includes 'Chat with a volunteer' (with a 'Chat' button), 'Latest updates on Covid-19' (with an 'Updates' button), and 'Vaccination centres near me' (with a 'Vaccination centres' button).

Online Covid-19 Vaccine Registration System

Sign out

Dashboard

History Check Notifications Update profile Sign out

Send Donation Donate

Find out next due date Upcoming dose

Vaccine availability near you Vaccine Availability

Chat with a volunteer Chat

Latest updates on Covid-19 Updates

Vaccination centres near me Vaccination centres

In the Dashboard the user will get the option to

- Donate
 - Check Upcoming Dose Date
 - Availability of Vaccines
 - Updates about Covid-19
 - Check Vaccine Centers Near Him
-

Donate

If the user wishes to donate us and contribute in helping Covid infected patients then he will have to click on the “DONATE” button and the donation dialogue box will appear



The screenshot shows a web browser window titled "Online Covid-19 Vaccine Registration System". The page features a logo on the left and a "Home" button on the right. A message states: "We provide our service for free. However, we would appreciate small donations in order for our organization to keep functioning". Below this, a section titled "Send donation via BKash" contains two input fields: "Enter your BKash Number:" and "Enter Amount:". A "Confirm" button is positioned at the bottom of the form. The background of the page has a faint, abstract pattern.

Here the user will have to provide his Bkash number and the number of amounts he wants to provide. Then click on the confirm button to be redirected to Bkash's login panel.

Volunteers

Giving live response to such a huge number of people all over the country is very tough. This is why we need volunteers to help us to respond to people whoever would call us or contact us for any information needed.

To become a volunteer in Covid-19 vaccine registration system, one would require to apply first to become a volunteer. Then we will check his details and decide whether he is capable enough to become a volunteer or not. If he is, then his registration will be completed and we will contact him through the phone number he provided and notify him about the steps to be performed next.

Registration process to become a volunteer

To apply to be a volunteer the user has to click on “Volunteer Login” button and from there click on “Register to become a volunteer. Then his registration window will appear. In there he has to provide his First Name, Last Name, NID Number, City Corporation Information, Municipality, Vaccine Center (Preferred by the user), Permanent Address, Postal Code, Password, Occupation, Gender, Date of Birth, Vaccination details, Medical Condition (If any, i.e. allergic to something), Phone number, Email address, Checkbox to select if the user will prefer to receive latest updates about vaccine through emails or not.

The provided password should match with the current password otherwise he will not be able to register.

Finally, after pressing the “Submit” button then,

his information system will be stored in our permanent storage system from where we decide whether he is eligible to volunteer us or not. If he is then we will contact with him and confirm his registration.

After the registration is completed then he will be able to login as a volunteer by clicking on the “Volunteer Login” button and access his dashboard.

From the volunteers Dashboard he will be able to



- Update the vaccine availability option
 - Details of registered people
 - Push any notification to all the users
 - Chat with any user using his information
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Abstract

This report describes all the features of our Covid-19 vaccine registration system. We have tried to cover up every detail in the most user-friendly way and the work of many systems which does exists in this software. The objectives we have used to build this software is Java FXML, Java File IO, Networking.

Thankyou