



Group 2 – COVID-19 ASSESSMENT & APPOINTMENT APPLICATION

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GitHub Repository: <https://github.com/owiekris/COVID-19-ASSESSMENT-APPOINTMENT-APPLICATION.git>



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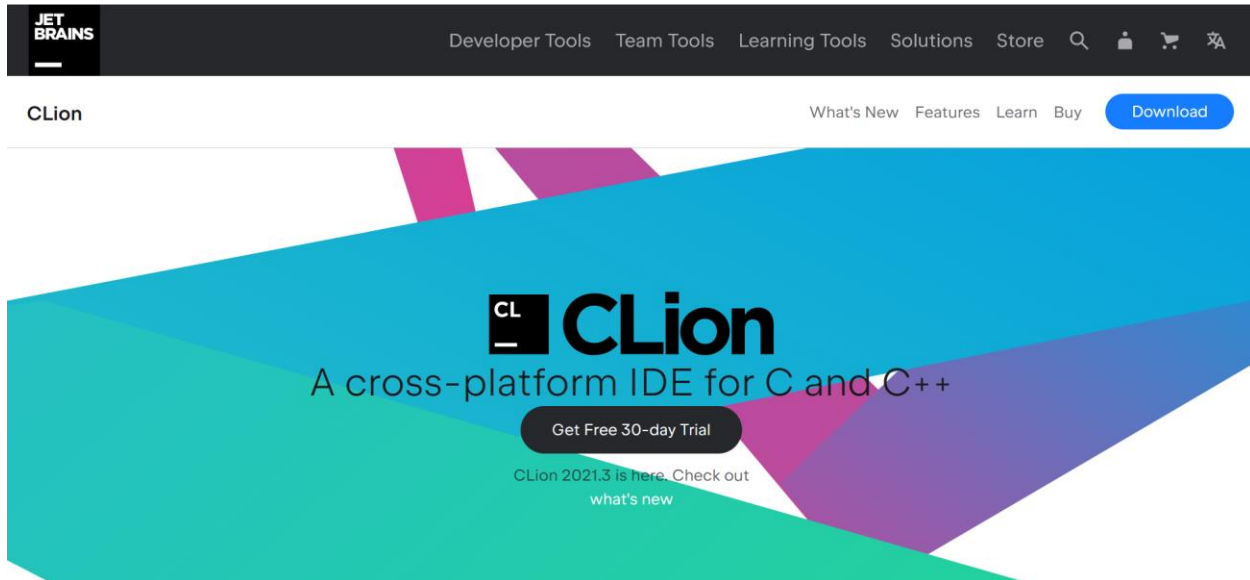
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Required tools:

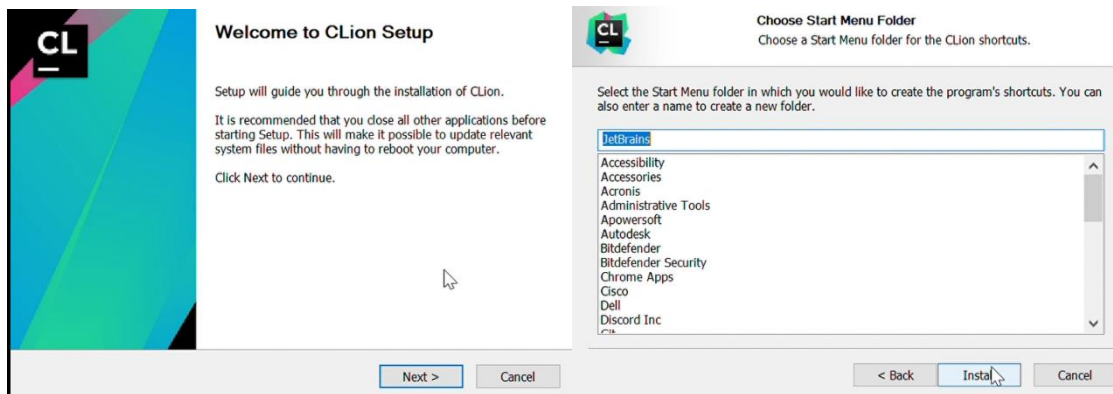
- 1) Locally installed Integrated Development Environments (IDEs)
Recommended: CLion
- 2) A GCC, C compiler
Recommended: MinGW

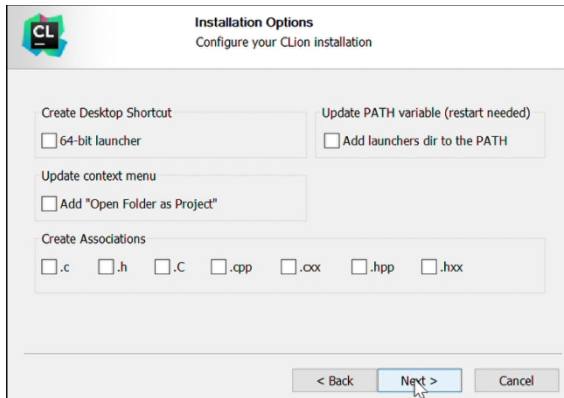
Installation of tools:

Visit <https://www.jetbrains.com/clion/> and press on the Download button on the top right of the website, follow their instructions and it should start the download. (need to create an account)

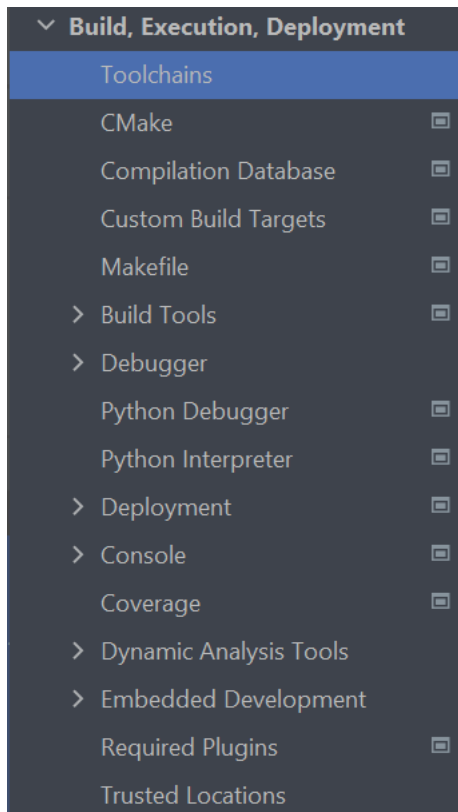


After the download completes, start the installation by following the following steps:

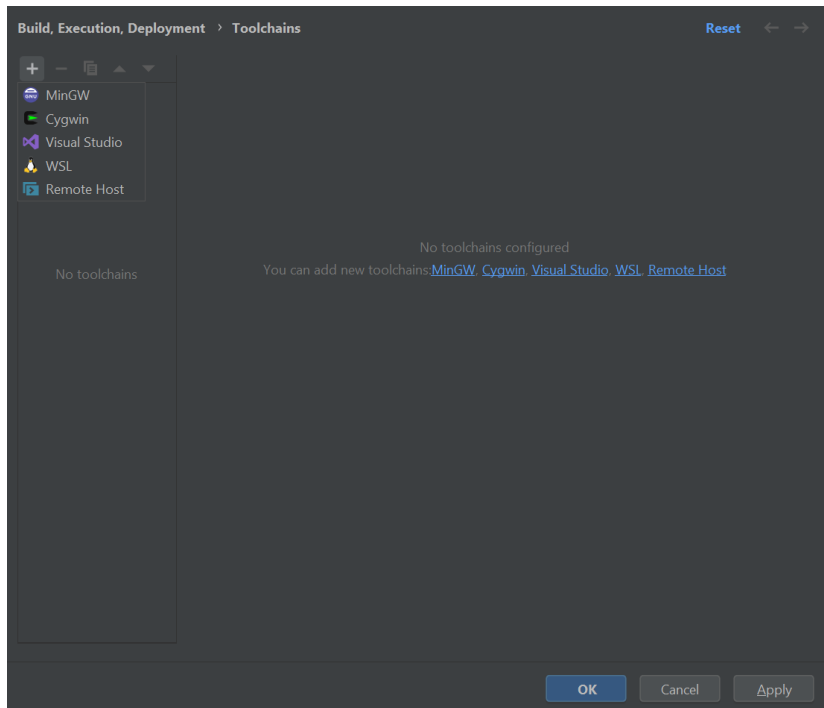




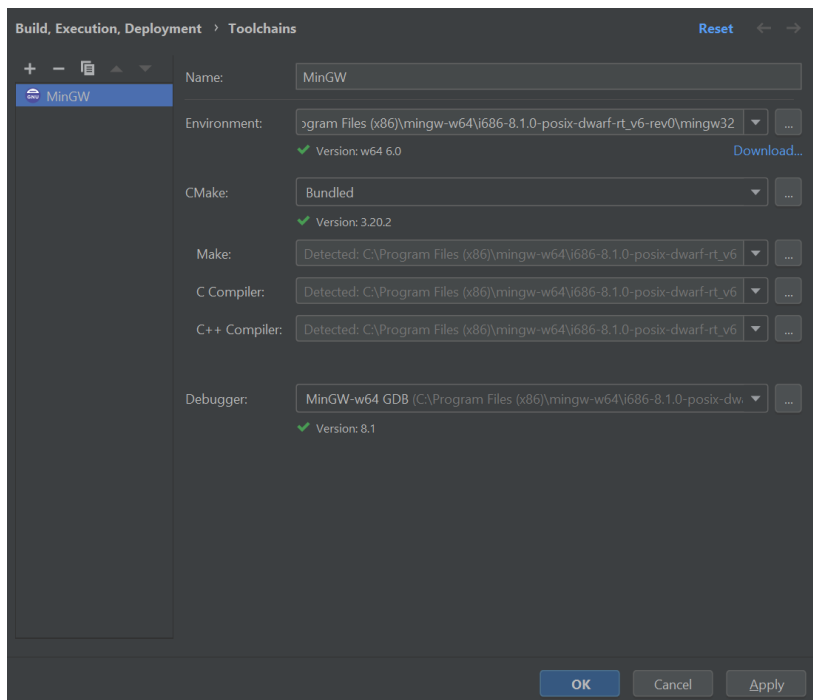
After Clion finishes installation, download minGW compiler from: <https://www.mingw-w64.org/>. Once it finishes downloading, open Clion and go to File from the toolbar and select Settings. Under Build, Execution, Deployment, select Toolchains.



Afterwards, to add MinGW as a toolchain select the “+” icon on the top left of the Build, Execution, Deployment window. Press on MinGW.



Finally, chose the downloaded directory as the environment and press apply to save these changes.



If other toolchains were previously installed, drag MinGW to the top of the list of toolchains to make it the default.

The software

Downloading the software:

The download link can be found here:

<https://github.com/owiekris/COVID-19-ASSESSMENT-APPOINTMENT-APPLICATION.git>

Running the software:

- i. You will see this welcome message after successfully running the code using CLion with MinGW.

```
***** WELCOME TO COVID-19 SELF SCREENING & APPOINTMENT MANAGEMENT SYSTEM *****

Welcome, are you a new user?
If yes Enter 1, If Existing User then enter 0

INFO : Waiting For User Input:
```

These screen has two valid inputs, 1 for new user and 0 for existing user. If anything else is inputted to the system, it will return the following error code:

```
ERROR : Invalid Input Value Entered
Try Again !!!
```

A. If 1 was entered (new user)

```
Welcome, Please Enter Following Details Prior to proceed further
Enter your 10 digit health card number:
```

Once a valid health card format has been entered, it will ask for an email address, first name, last name and postal code in order to add new user to the database.

```
Enter Your Registered Email Address:testing@gmail.com

Enter Your First Name:Test

Enter Your Last Name:Ing

Enter Your Postal Code with out any space:k1a2b3
```

```
INFO : User Added To Database successfully !!!
*****
Details For Current Selected User
Sr No      :13
Health Card No :3333333333
First Name  :Test
Last Name   :Ing
Postal Code  :k1a2b3
Email       :testing@gmail.com
Appointment Date :0
Appointment Time :0
Appointment No  :0
Appointment Status :0
*****
```

The system will only accept a 10 digit number, if it has less or greater than 10 it will output the error:

```
ERROR : Character length lesser than min limit
INFO : Minimum character length is 10 and you type 2 character
```


If the user enters an health card number already registered, the software will ask for this email in order to proceed with the existing user information.

```
Enter Your Registered Email Address:
```

If the inputted email address does not match with the email in the database, it will ask to try again

```
Enter Your Registered Email Address again:
```

B. If 0 was entered (existing user)

The software will ask for your health card and email address in order to find your existing user information in the database.

```
Welcome, Please Enter Following Details Prior to proceed further
Enter your 10 digit health card number:3333333333

Enter Your Registered Email Address:testing@gmail.com

INFO : Existing user found with entered Email Address & Health Card Number at record no 13
#####
Sr No      :13
Health Card No :3333333333
First Name   :Test
Last Name    :Ing
Email        :testing@gmail.com
#####
```

- ii. Once the new user information has been created or existing user information has been accessed, the software will ask to continue.

```
Would you like to continue with this Health Card number ?  
Enter Y For yes and Enter N for No:
```

Giving the user two valid inputs, Y to continue with the user details mentioned or N to start over from step i.

If anything else than Y(or y) or N (or n) is inputted, the software will return the following error message:

```
ERROR : Invalid Input Entered  
INFO  : Retry by Entering Y For yes and Entering N for No:
```

- iii. Logging in with the entered user information gives access to the main menu:

```
Please Enter Sr No Only associated with task you want to do.  
Sr No.      Description Of Task  
1.          To Book a vaccination appointment.  
2.          For COVID-19 Self-screening assessment.  
3.          To Manage your appointment.  
4.          To Exit from Current User Session.  
5.          To Exit from Application.  
  
Please Enter your Response by entering Sr No (1 to 5) only :|
```

The following options are given:

1. Book a vaccination appointment
2. COVIC-19 self-screening assessment
3. Manage your appointment
4. Exit from current user selection
5. Exit from application

If any other input was entered, system will return the following error message:

```
ERROR : Invalid Input Entered  
INFO  : Please Try again By entering Valid Sr No.(1 to 5):|
```

1. Book a vaccination appointment

```
INFO : Enter Valid Appointment Date in DD/MM/YYYY format Again:22/12/2021

#####
Slot No.      Time      Slot No.      Time      Slot No.      Time
1.  =====> 08:00      2.  =====> 08:20      3.  =====> 08:40
4.  =====> 09:00      5.  =====> 09:20      6.  =====> 09:40
7.  =====> 10:00      8.  =====> 10:20      9.  =====> 10:40
10. =====> 11:00      11. =====> 11:20      12. =====> 11:40
13. =====> 12:00      14. =====> 12:20      15. =====> 12:40
16. =====> 13:00      17. =====> 13:20      18. =====> 13:40
19. =====> 14:00      20. =====> 14:20      21. =====> 14:40
22. =====> 15:00      23. =====> 15:20      24. =====> 15:40
25. =====> 16:00      26. =====> 16:20      27. =====> 16:40
#####
Please Enter Slot No only from above displayed Slot Numbers:
```

Entering a valid appointment date will output the user a set of time slots that are available for the user to book their appointment.

The software will output a .txt file as a confirmation to the user and bring the user back to the main menu, step iii.

```
Rc_3333333333 - Notepad
File Edit Format View Help
hello Test Ing,

Your appointment has been booked for the date of 22/12/2021 at 08:00.
Your appointment number is 1.

Thank you for using the COVID-19 appointment booking system!
```

If the user enters a day that has passed already or 15 days from current date, the following error will be outputted.

```
ERROR : Invalid Date Entered
INFO : Please Try Again By Entering valid date
```

2. COVID-19 self screening assessment

This function prints a set of questions and receives their responses from the user.

```
Thank You For Choosing option for COVID-19 Self-screening assessment.
Do you currently have one or more of the COVID-19 symptoms below that are new or worsening:
fever and/or cold
cough or barking cough
shortness of breath
decrease or loss of smell or taste
fatigue and/or muscle soreness
nausea/vomiting

Please Enter your Response by entering Y for Yes, N for No :
```

If responses match with symptoms of covid, Y (or y) needs to be entered and the software will output isolation procedures and related information on the screen before ending the code.

```
Contact either your health care provider or Telehealth Ontario (1-866-797-0000) to get advice or assessment,
including if you need a COVID-19 test.

Process finished with exit code 0
```

If the user enters N (or n) for not matching any symptoms, it will continue with the next set of questions.

```
Has a doctor, health care provider, or public health unit told you that you should be currently isolating
(staying at home)?
Please Enter your Response by entering Y for Yes, N for No : n

Do you like with someone who has been told by a doctor, health care provider,
or public health unit that they should currently be in isolation?
Please Enter your Response by entering Y for Yes, N for No : n
```

Finally it will ask if user is vaccinated with both doses approved by the government of Canada. Entering Y (or y) will output the following message and end the software

```
Are you vaccinated with both doses of vaccine approved by Government of Canada ?
Please Enter your Response by entering Y for Yes, N for No : y

You Got a Green Mark !!!
You are Good to Go.
Thank You For Using Our Assessment Application.
Process finished with exit code 0
```

Entering N (or n) will output a different message and bring the user back to the main menu.

```
Are you vaccinated with both doses of vaccine approved by Government of Canada ?
Please Enter your Response by entering Y for Yes, N for No : n

User is asymptomatic,We recommended you to take both doses of vaccine.
you can proceed with the Vaccination Appointment Booking in Main menu.
```

3. Manage your appointment

If the user has not already booked an appointment, it will return the following error message:

```
Thank You For Choosing Managing option for a vaccination appointment.
ERROR : User Has Not Booked any Appointment.
INFO  : You Can Use This Menu after Booking Appointment.
INFO  : For Option Related To Booking appointment, Choose Book Appointment Option From Main Menu.
```

Once the appointment has been booked, manage your booking application will work.

```
Thank You For Choosing Managing option for a vaccination appointment.
INFO  : User Has Booked Appointment with Following Details.
#####
Details For Current Selected User
Sr No      :13
Health Card No :3333333333
First Name  :Test
Last Name   :Ing
Postal Code :k1a2b3
Email       :testing@gmail.com
Appointment Date :22/12/2021
Appointment Time :08:00
Appointment No  :1
Appointment Status :1
#####
INFO  : To Cancel This Appointment Enter 1.
INFO  : To Return to main menu Enter any keys except 1
INFO  : Waiting For User Response:
```

It will allow the user to either cancel the previously booked appointment or return to the main menu. If successfully cancelled, the following confirmation message will be outputted before returning to the main menu:

```
INFO  : Your Appointment is cancelled, You can book new appointment from main menu.
INFO  : User Details Noted To Database successfully !!!
```

4. Exit from current user selection

Entering 4 in the main menu will bring the user back to the welcome message of step i. after terminating the previous session.

```
Thank you for using application
Your User Session will terminate shortly.
Welcome, are you a new user?
If yes Enter 1, If Existing User then enter 0
INFO  : Waiting For User Input:
```

5. Exit from application

The software will successfully terminate and exit the software.

```
Thank you for using application  
Program will terminate shortly.  
Process finished with exit code 1
```

Thank you for using the COVID-19 Assessment & Appointment Application!