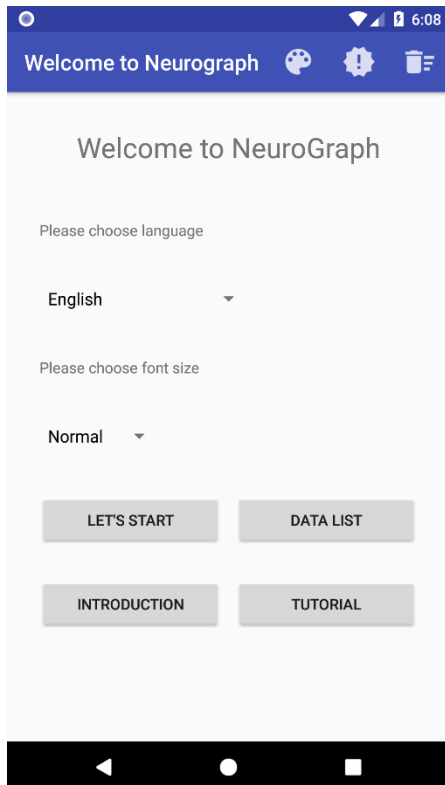


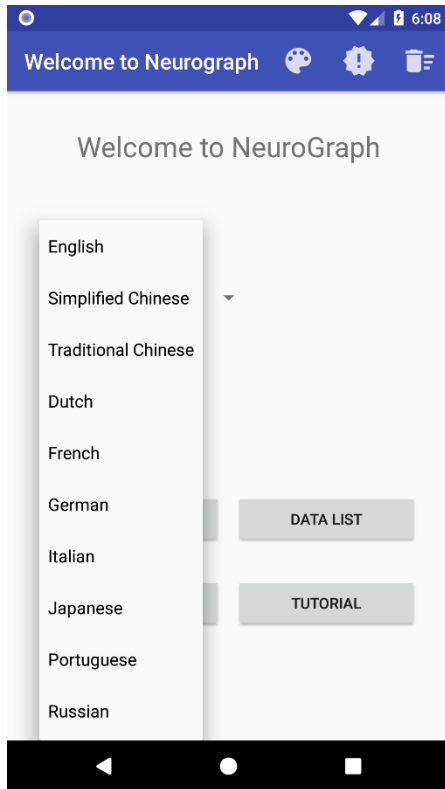
# Neurograph User Manual

## App Icon and Welcome Page



## Home Page

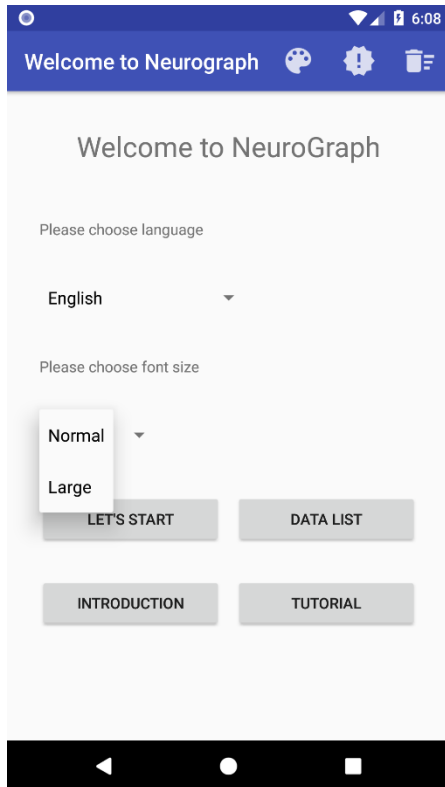
This is the home page of Neurograph. Here you can change the language setting, change the font size setting, see the introduction of the app, view tutorials, start the tests etc.



## Choose Your Preferred Language

You can choose your preferred language, this change will take effect immediately.

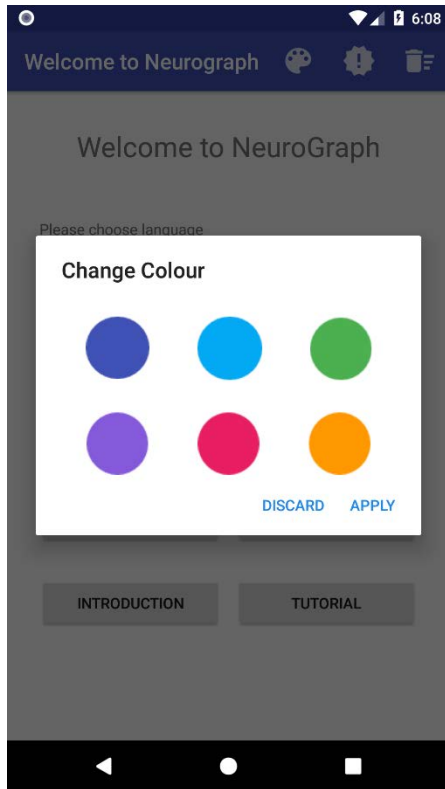
(This setting can also be changed after you log in)



## Choose Font Size

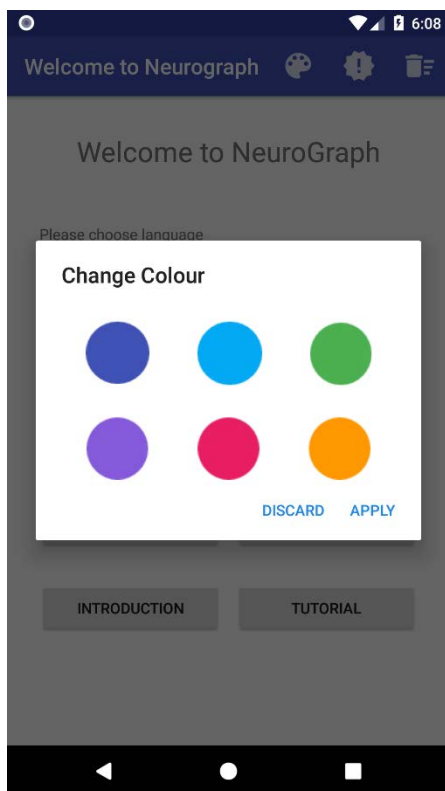
You can choose your preferred font size, this change will take effect immediately.

(This setting can also be changed after you log in)



## Choose your preferred colour theme

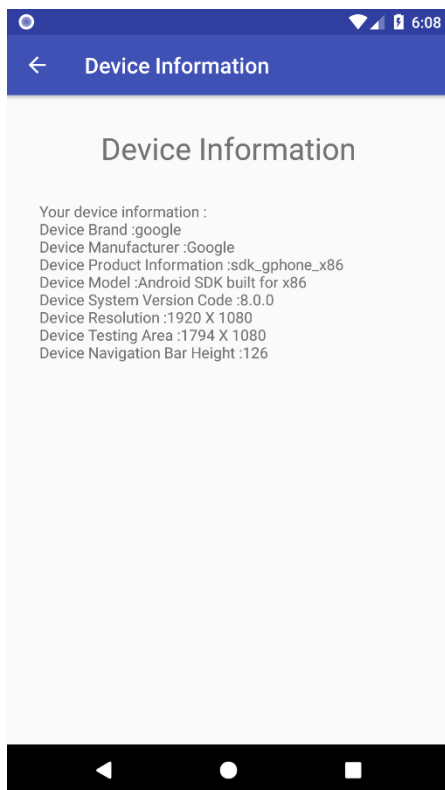
You can choose your favourite colour theme.



## View App information

You can see the information about this app here.

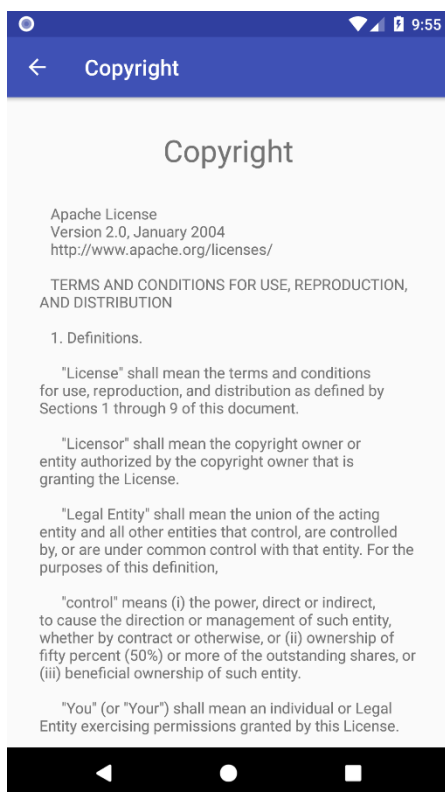
// TODO



## View Device Information

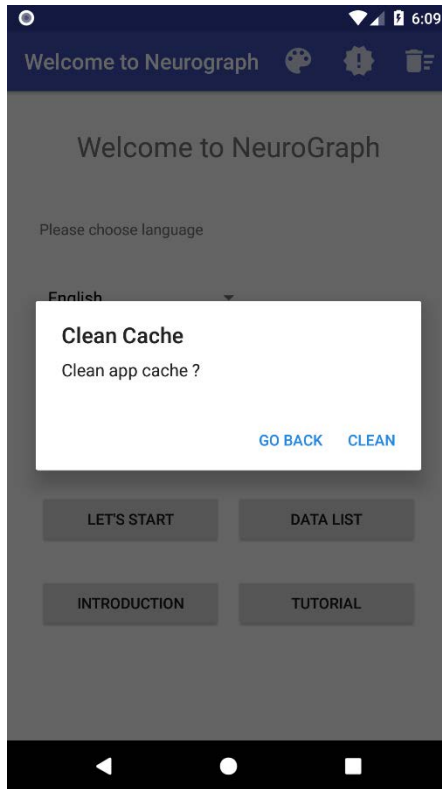
This page contains all the information about your test device.

For example, your device brand, device resolution, device testing area size, device navigation bar height, device system version code etc.



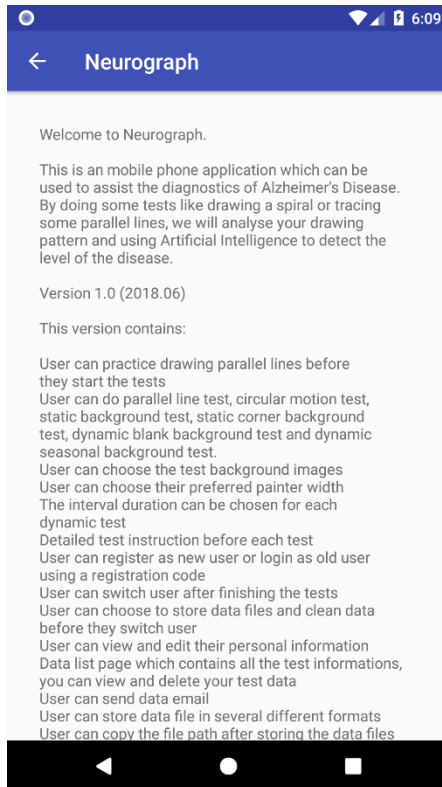
## View copyright information

This page contains all the information about the copyright of this app.



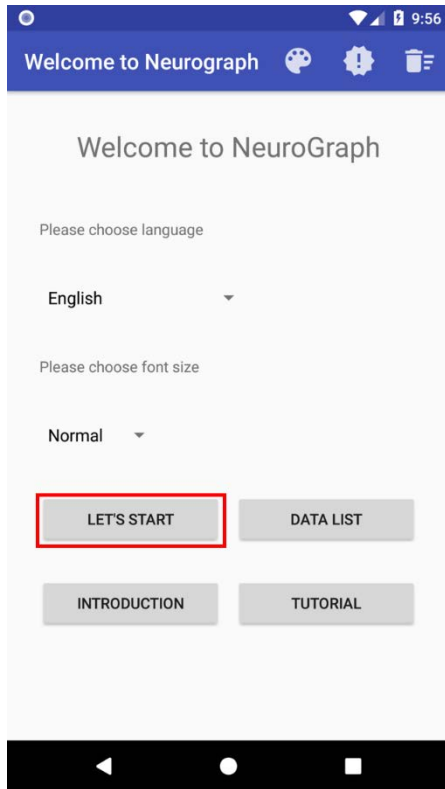
## Clean App Cache

You can clean the cache of the app. This will make the app faster.



## View information about the app

This page contains the introduction of what's new in this release.

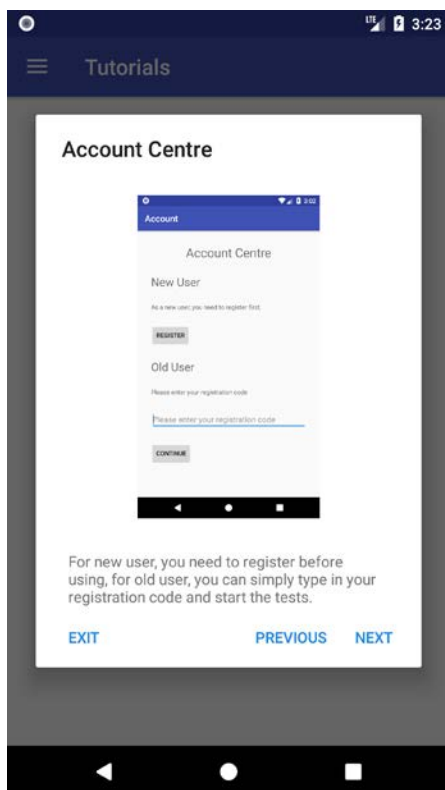


## View Tutorials

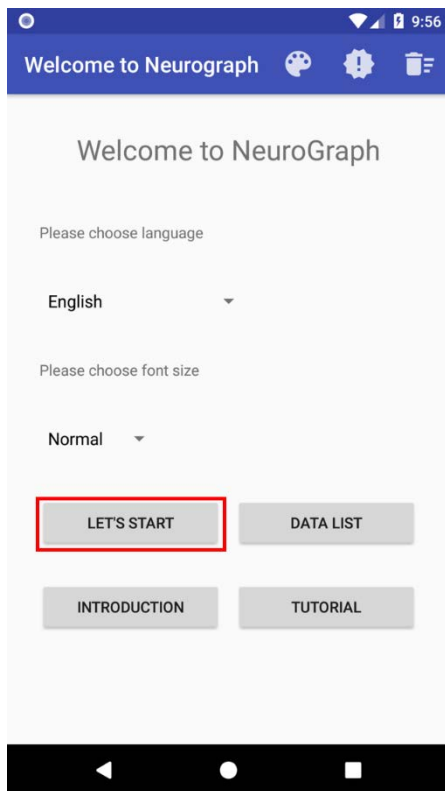
You can find the tutorials of this app. They are very helpful to guide you to use this app.

You can choose any tutorial you want to view through the navigation bar on the left.

// TODO

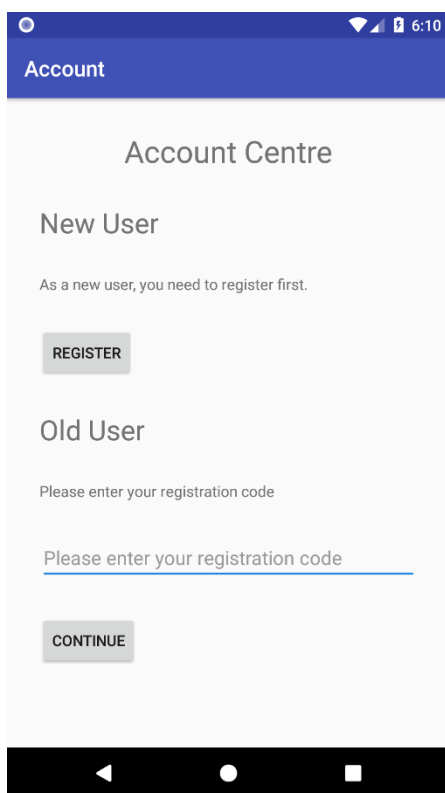


For each of the tutorials, you can click “Previous” or “Next” to switch between tutorials, or you can click “Exit” to exit the tutorials.



Click Let's Start to log in

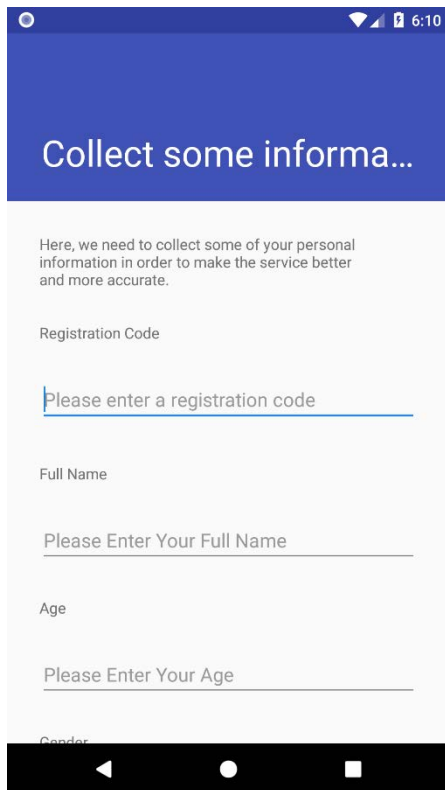
Please click "Let's Start" to log in and do the tests.



Account centre

New user needs to register before doing the tests.

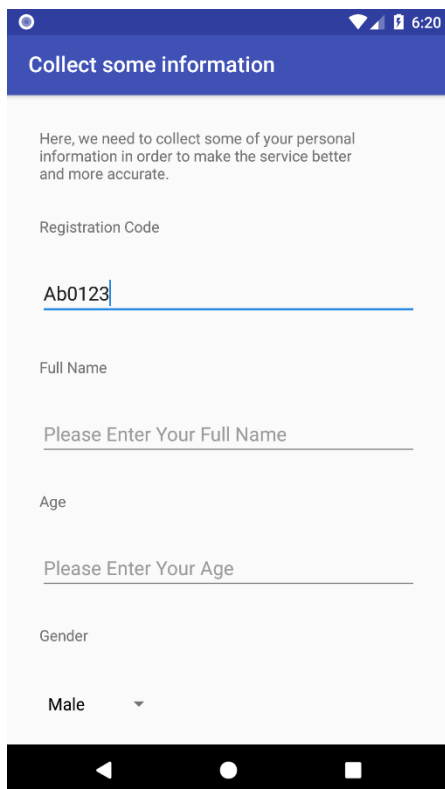
Old user need to enter their registration code to continue their tests.



A screenshot of a mobile application's registration page. The top status bar shows the time as 6:10. The app's header is a solid blue bar with the text "Collect some informa..." in white. Below the header, a light gray box contains the text: "Here, we need to collect some of your personal information in order to make the service better and more accurate." The form fields are labeled "Registration Code", "Full Name", "Age", and "Gender". The "Registration Code" field has a blue border and contains the placeholder text "Please enter a registration code". The "Full Name" field has a blue border and contains the placeholder text "Please Enter Your Full Name". The "Age" field has a blue border and contains the placeholder text "Please Enter Your Age". The "Gender" field is partially visible at the bottom.

## Registration Page

you need to enter some information like your name, age, education level etc. This will help to make our app more accurate.



A screenshot of the same mobile application's registration page, but with the "Registration Code" field filled with the text "Ab0123". The status bar now shows the time as 6:20. The header and explanatory text remain the same. The "Full Name" field still has the placeholder "Please Enter Your Full Name". The "Age" field still has the placeholder "Please Enter Your Age". The "Gender" field is now fully visible and shows a dropdown menu with "Male" selected and a downward arrow icon.



The screenshot shows a mobile application interface titled "Collect some information". At the top, there is a status bar with a battery icon, signal strength, and the time 6:11. Below the title, there is a text input field labeled "Please enter a registration code" with a red exclamation mark icon to its right. A dark red error message box is displayed below the input field, stating "Registration code cannot be empty". Below this, there is a text input field labeled "Full Name" with a red exclamation mark icon to its right. A white dialog box is centered on the screen with the title "Registration Code Empty" and the message "Registration Code is empty". At the bottom of the dialog box is a blue button labeled "DISMISS". Below the dialog box, there is a dropdown menu labeled "Male" with a downward arrow. Below that, there is a text input field labeled "Please Enter Your Full Name" with a red exclamation mark icon to its right. Below this, there is a dropdown menu labeled "Primary School or below" with a downward arrow. At the bottom, there is a text input field labeled "Previous Alzheimer Rating Score (If Applicable)". The bottom of the screen shows the Android navigation bar with back, home, and recent apps buttons.

## Registration Code

The registration code cannot be empty

The screenshot shows the same mobile application interface as the first screenshot. The status bar at the top shows the time 6:12. The text input field labeled "reg#code" has a red exclamation mark icon to its right. A dark red error message box is displayed below the input field, stating "Registration code invalid, should contains only alphabet and numbers". Below this, there is a text input field labeled "Full Name" with a red exclamation mark icon to its right. A white dialog box is centered on the screen with the title "Information Invalid" and the message "Registration code invalid. It should only contain alphabets or numbers.". At the bottom of the dialog box is a blue button labeled "DISMISS". Below the dialog box, there is a dropdown menu labeled "Male" with a downward arrow. Below that, there is a text input field labeled "Please Enter Your Full Name" with a red exclamation mark icon to its right. Below this, there is a dropdown menu labeled "Primary School or below" with a downward arrow. At the bottom, there is a text input field labeled "Previous Alzheimer Rating Score (If Applicable)". The bottom of the screen shows the Android navigation bar with back, home, and recent apps buttons.

The registration code can only contain number and letters (A-Z, a-z, 0-9).

The screenshot shows a mobile app interface with a dark blue header titled "Collect some information". Below the header, there are two dropdown menus: "Male" and "Primary School or below". A white modal dialog box is centered on the screen with the title "Duplicate Registration Code" and the text "This registration code has been registered, please try another one". A blue "DISMISS" button is at the bottom right of the dialog. Below the dialog, there is a question "Are you currently receiving treatment?" with two radio buttons: "Yes" and "No". A grey "NEXT" button is at the bottom of the form. The status bar at the top shows the time as 6:12.

The registration code also cannot duplicate, so if the registration code you entered duplicates with other patients' registration code, you will be asked to try another one.

The screenshot shows a mobile app interface with a blue header titled "Collect some information". Below the header, there are two dropdown menus: "Female" and "Postgraduate". Below these, there is a text input field for "Previous Alzheimer Rating Score (If Applicable), otherwise leave it as blank". Below that, there is a question "Are you currently receiving treatment?" with two radio buttons: "Yes" and "No", where "No" is selected. A grey "NEXT" button is at the bottom of the form. The status bar at the top shows the time as 6:13.

## Information Collection

All the information cannot be empty, except rating score. Please leave rating score blank if you don't have previous rating score

Collect some information

Age

66

Gender

Male

Please Select Your Education Level

Primary School or below

Previous Alzheimer Rating Score (If Applicable), otherwise leave it as blank

Please Enter Your Rating Score

Are you currently receiving treatment?

The age must be a valid numerical value between 1 and 170

Collect some information

Female

Please Select Your Education Level

Postgraduate

**Information Invalid**  
Invalid Age  
[DISMISS](#)

Are you currently receiving treatment?

☐ Yes  
☒ No

NEXT

If the age information you entered is invalid, you will get a prompt message reminds you the invalidity of the information.

Collect some information

Female ▾

Please Select Your Education Level

Undergraduate ▾

Previous Alzheimer Rating Score (If Applicable), otherwise leave it as blank

15.62

Are you currently receiving treatment?

☒ Yes

☐ No

NEXT

If you get a rating score, it should also be a valid number

Collect some information

Female ▾

Please Select Your Education Level

Postgraduate ▾

Information Invalid

Invalid rating score

DISMISS

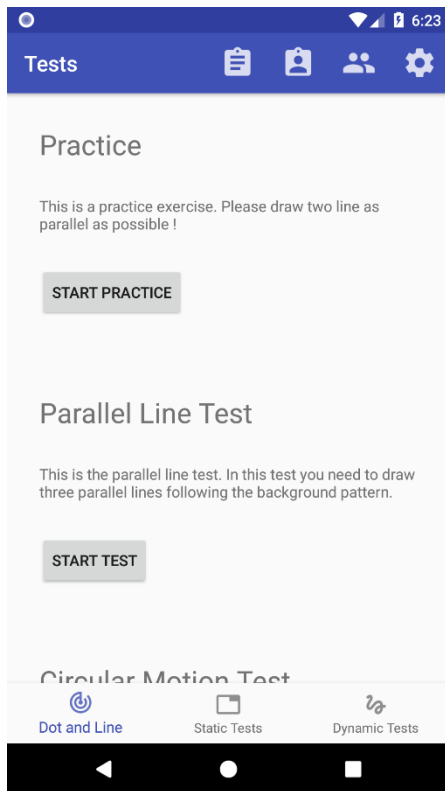
Are you currently receiving treatment?

☐ Yes

☒ No

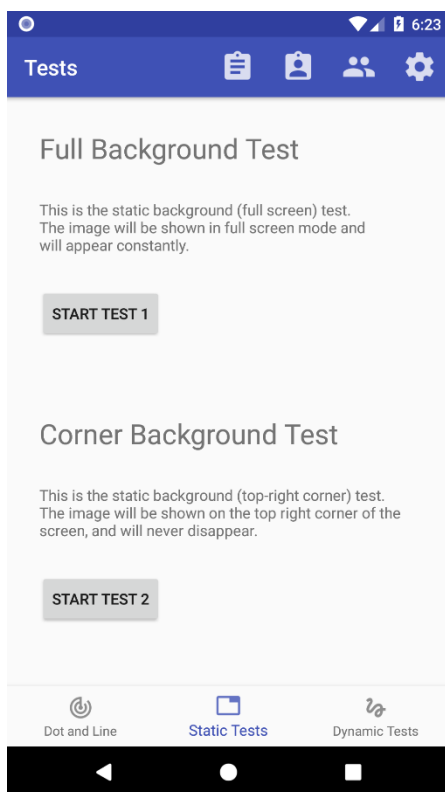
NEXT

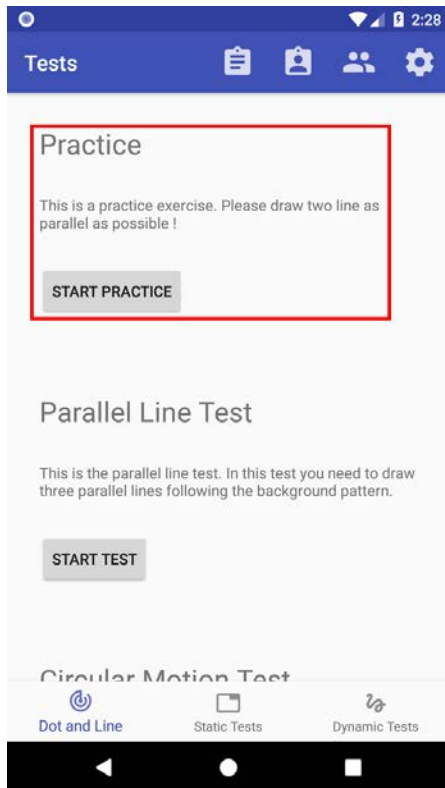
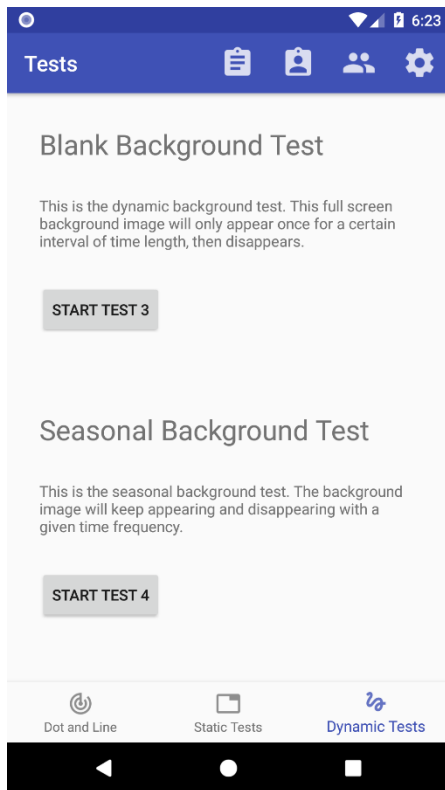
Placeholder



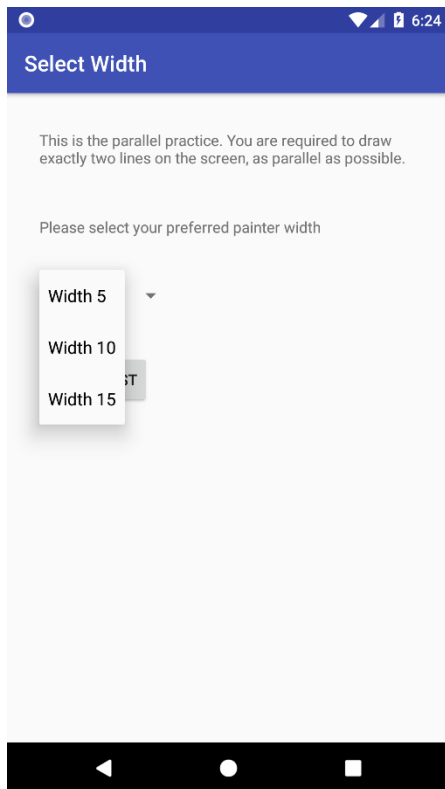
## Test Selection

In this page you can select the tests you want to do. There are three tabs, the first tab called “Dot and Line”, which contains parallel line practice, parallel line test and circular motion test, the second tab called “Static Tests”, which contains the static full background test and static corner background test, and the third tab called “Dynamic Test”, which contains dynamic blank background test and dynamic seasonal background test. You can select multiple test to do and you can do a single test as many times as you want.

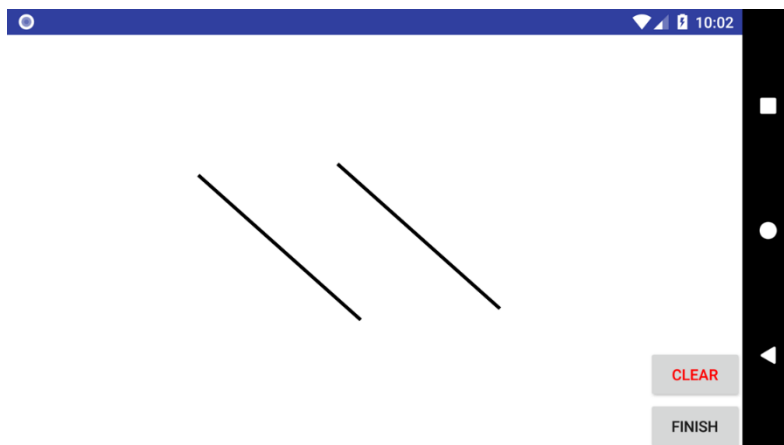




## Parallel Line Practice



Choose painter width before starting

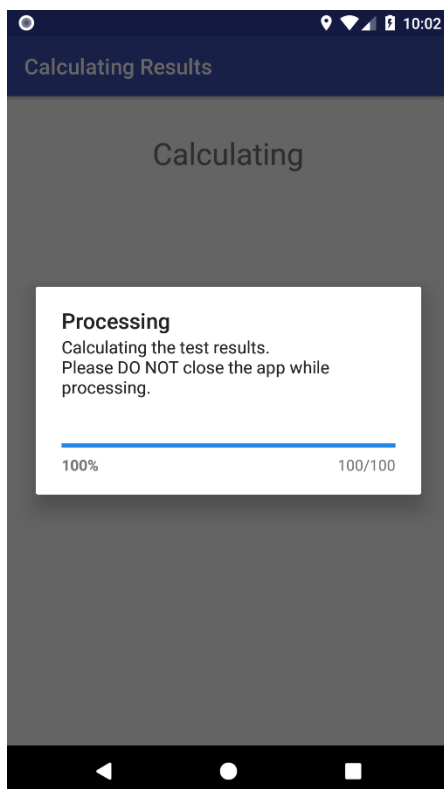


This is a place where you can practice drawing on this device. In this practice, you are required to draw exactly two lines which are parallel with each other.



## Finish & Clear

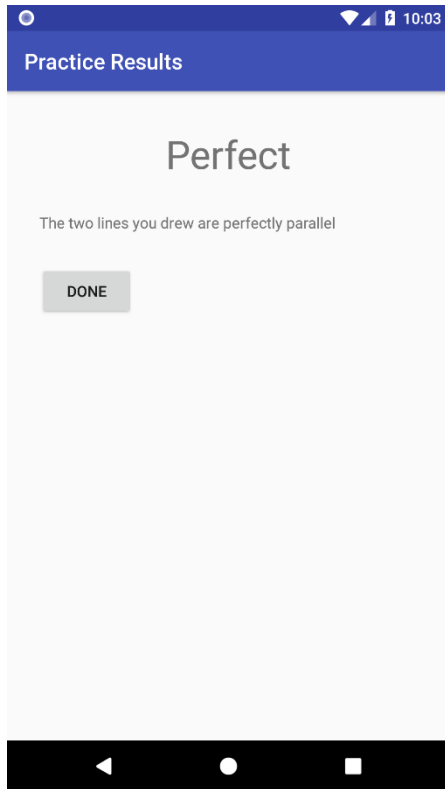
Click “Finish” to finish the test, click “Clear” to clear the screen.



## Calculating Results

Please wait for a few seconds while we are processing the data. During processing please do not close the app.



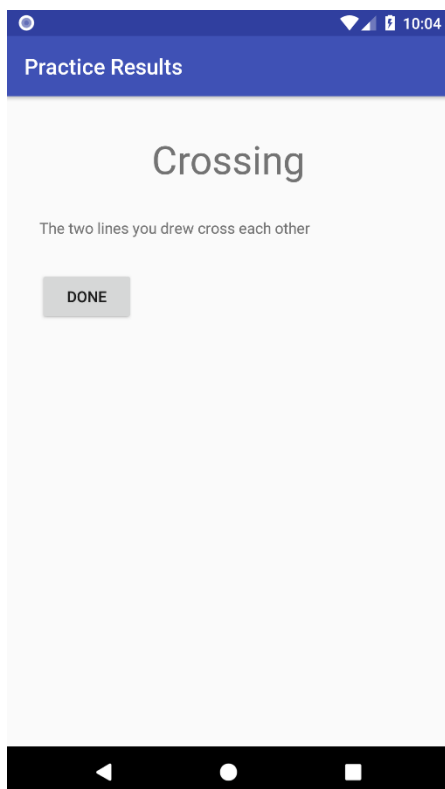


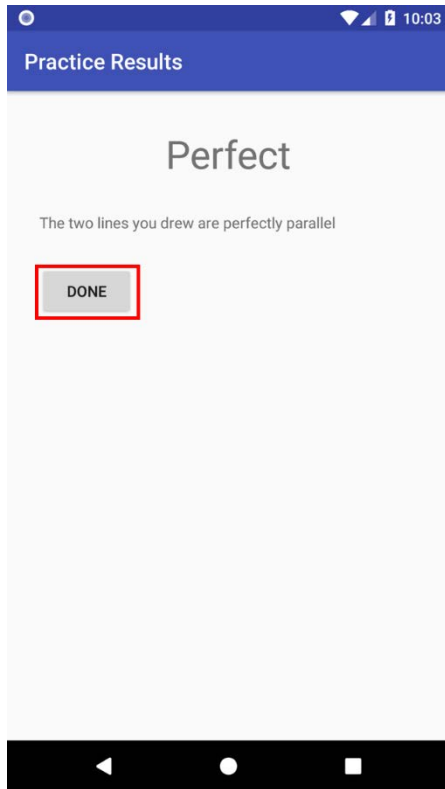
## Practice Results

After finishing the practice, we will calculate whether these two lines you draw are parallel.

If there is no drawing at all or only one line, then the app will tell you "No Drawing detected"

If there are two valid lines, the app will calculate whether they are parallel or not, possible results are Perfect, Good, Acceptable, Bad or Crossing.



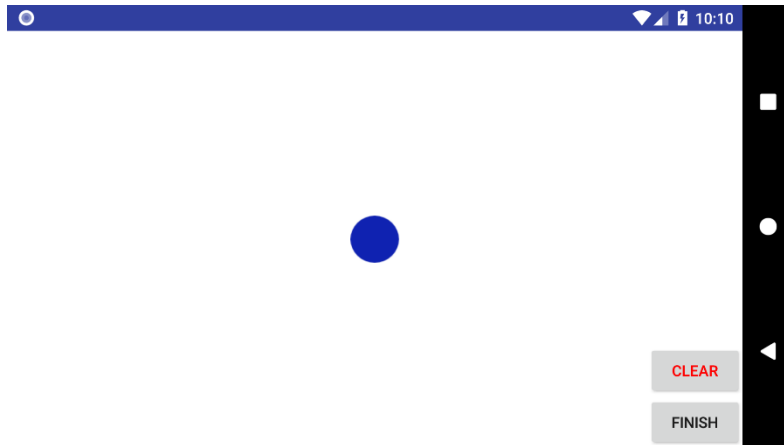


Click done to exit.



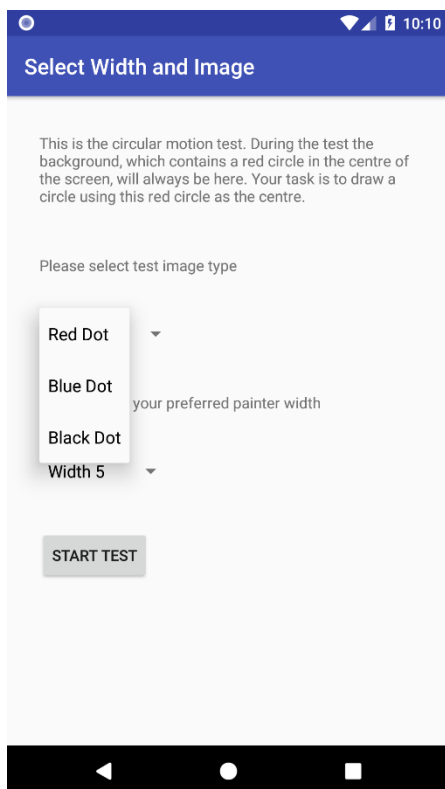
## Parallel Line Test

This is the Parallel Line Test. In this test you are required to follow the template image on the background, which contains three parallel lines, to draw three parallel lines on the background image.



## Circular Motion Test

This is the circular motion test. You need to draw a circle, using the dot as the centre.



## Choose the background

For Circular Motion Test, you can choose the colour of the dot. There are three colours: red, blue and black.



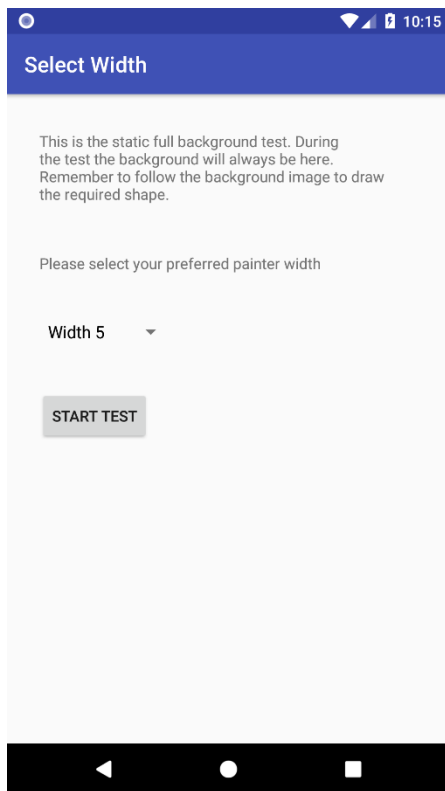
## Static Full Background Test

This is the static full background test. In this test, you are required to follow the background image to draw the required shape.



## Choose test background image

In this page you need to choose the background image you want to use in this test. There are two types of image you can choose. The first one is the spiral image, and the second one is the pentagon image.



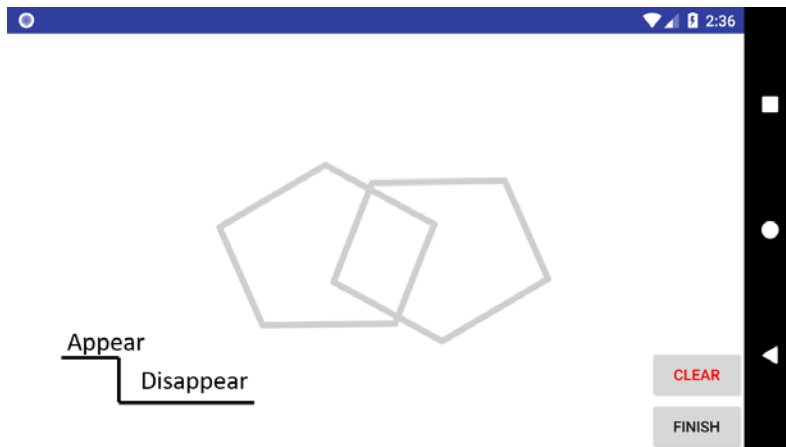
## Choose painter width

You also need to choose the painter width.



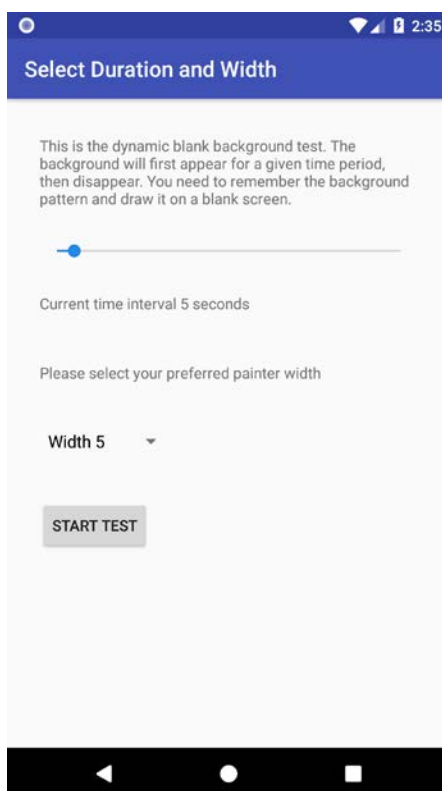
## Static Corner Background Test

This is the static corner background test. In this test the background image is located on the top-right corner of the screen. You are required to draw the required shape in that image.



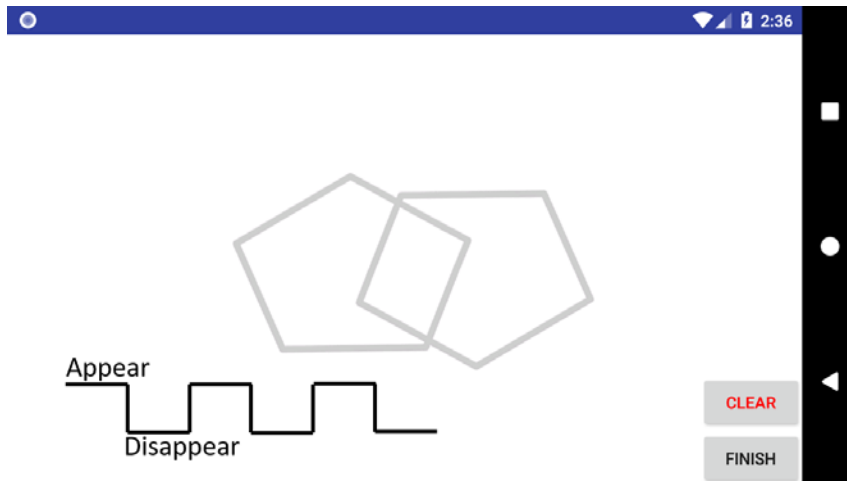
## Dynamic Blank Background Test

This is the dynamic blank background test. In this test, the background image will first appear for a specific period of time, then disappear. You need to remember the background pattern and draw the shape on a blank screen after the background image disappears.



## Choose Time Interval

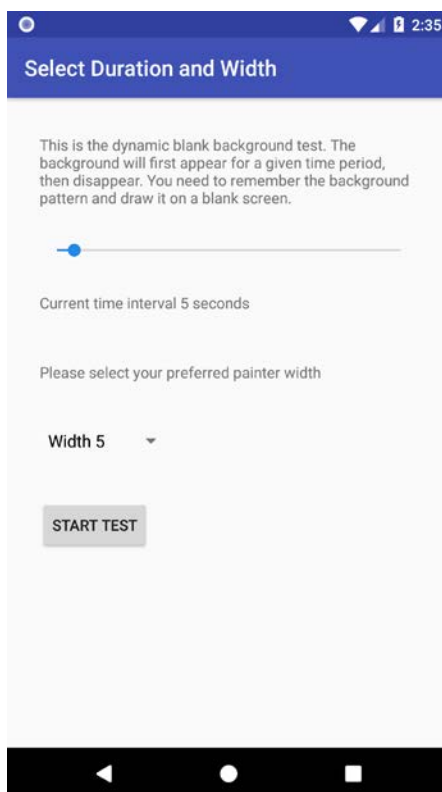
You need to choose how long you want the background image to show at the beginning of the test.



## Dynamic Seasonal Background Test

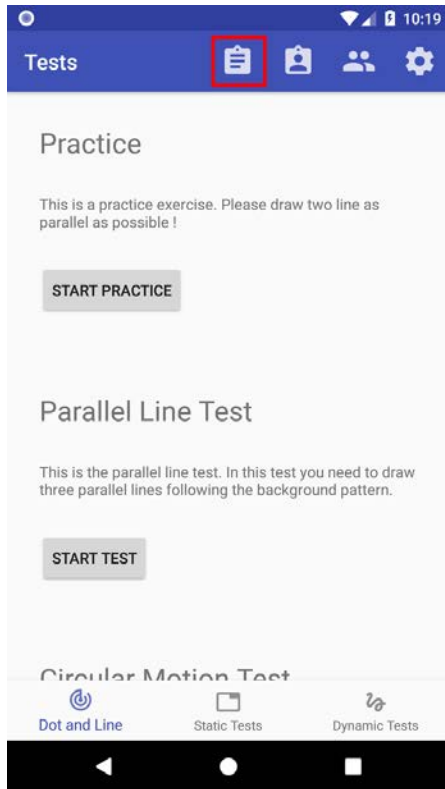
This is the dynamic seasonal background test. In this test the background image will keep appearing and disappearing, with certain time interval specified. You are required to follow the background

image to draw the required shape.



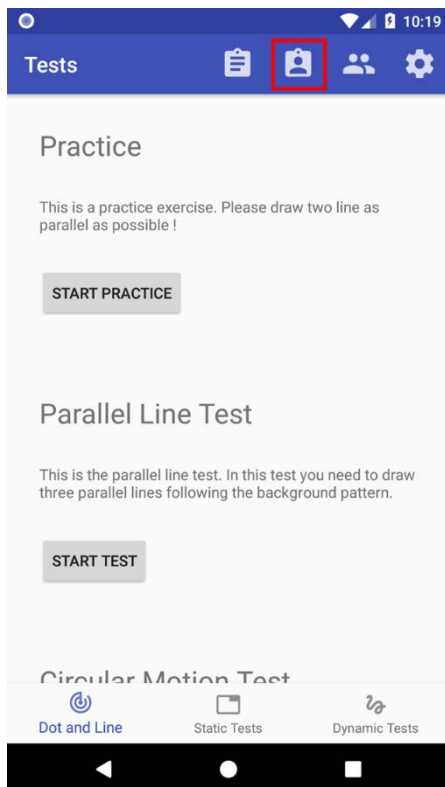
## Choose Time Interval.

You need to choose the time interval for the background image to keep appearing and disappearing.



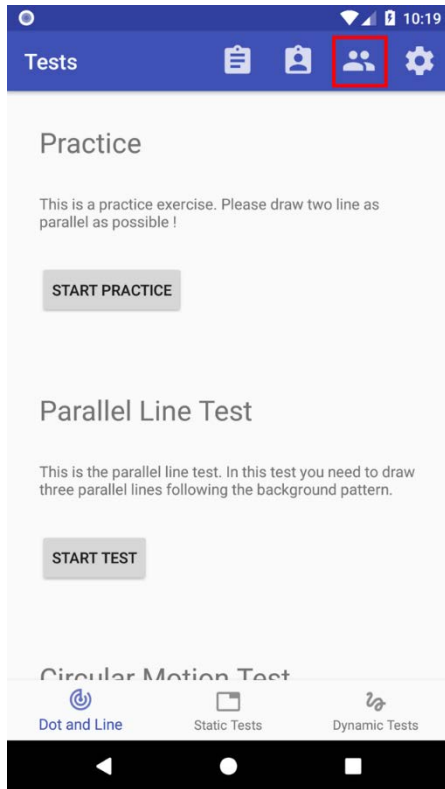
## Test Selection Page toolbar

You can click here to access the data list.

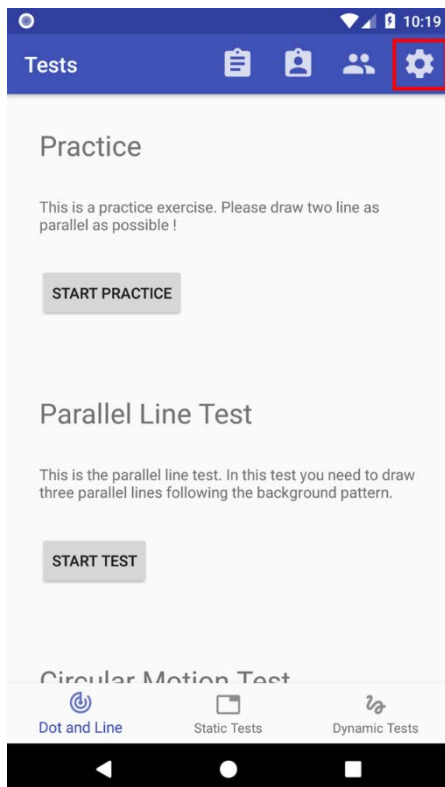


You can click here to view or edit your personal information





You can click here to switch user



You can click here to change the setting of language and font size.

1	circular_motion_test
Elizabeth	
2018-05-04 14:47:28.262	red_dot
2	dynamic_seasonal_background
Elizabeth	
2018-05-04 14:48:00.018	pentagon
3	parallel_line_test
Michael	
2018-05-04 14:49:31.196	parallel_line
4	static_corner_background
Michael	
2018-05-04 14:50:09.847	spiral
5	parallel_line_practice
Victoria	
2018-05-04 14:51:29.854	Blank

## Data List

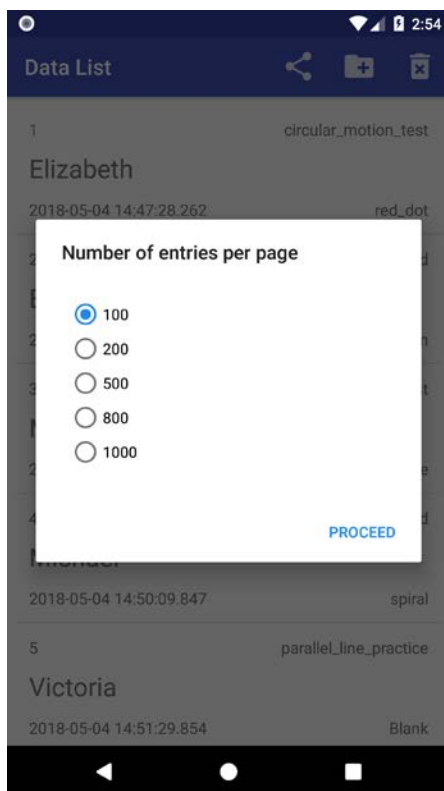
Here you can see all test of all the users.

1	circular_motion_test
Elizabeth	
2018-05-04 14:47:28.262	red_dot
2	dynamic_seasonal_background
Elizabeth	
2018-05-04 14:48:00.018	pentagon
3	parallel_line_test
Michael	
2018-05-04 14:49:31.196	parallel_line
4	static_corner_background
Michael	
2018-05-04 14:50:09.847	spiral
5	parallel_line_practice
Victoria	
2018-05-04 14:51:29.854	Blank

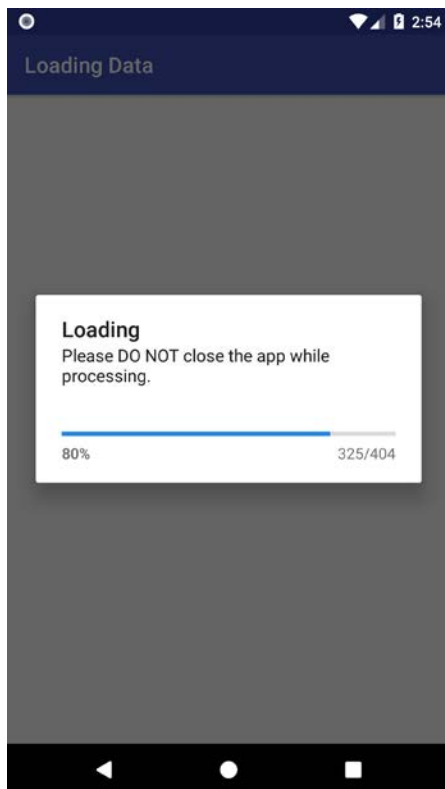
Each tab shows the test ID, the testee's name, the test date and time, test type and image type.



Click the tab to see the details of this test.



You need to choose how many entries you want to show on each page. Since in each single test there can have many data points.



## Loading

During the loading process please do not close the app.

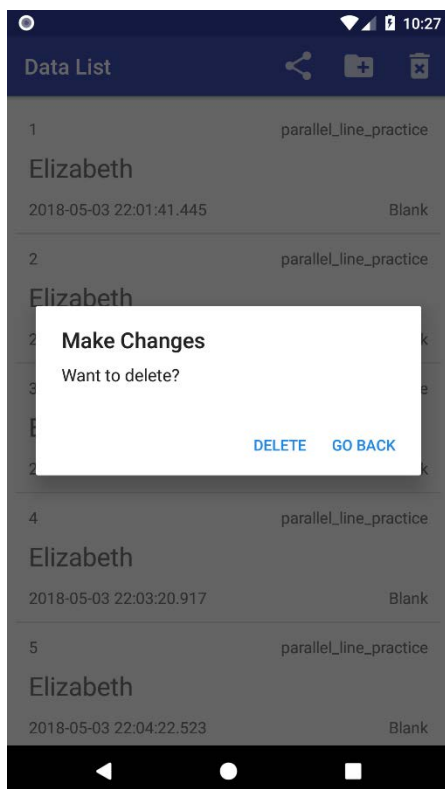


## Test Information

Here you can see all the information about this test, including the test ID, testee ID, testee name, test starting time, test ending time, test type, image type, interval duration, number of points collected, and the x, y coordinates, pressure and touch point size of every single point collected in this test.

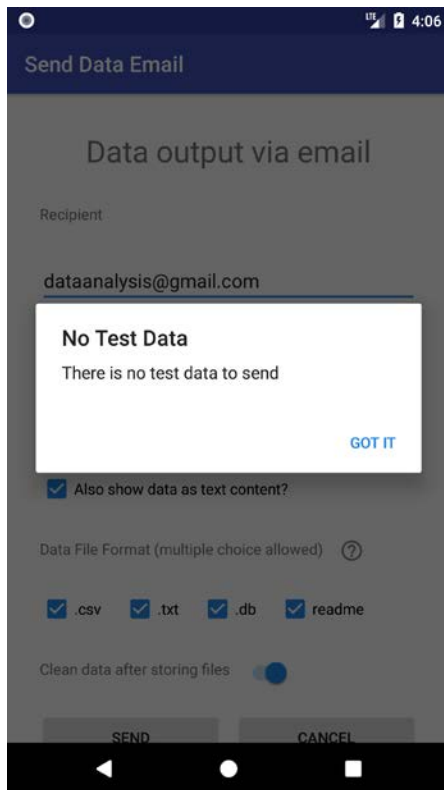


Click here to go to the previous / next page.



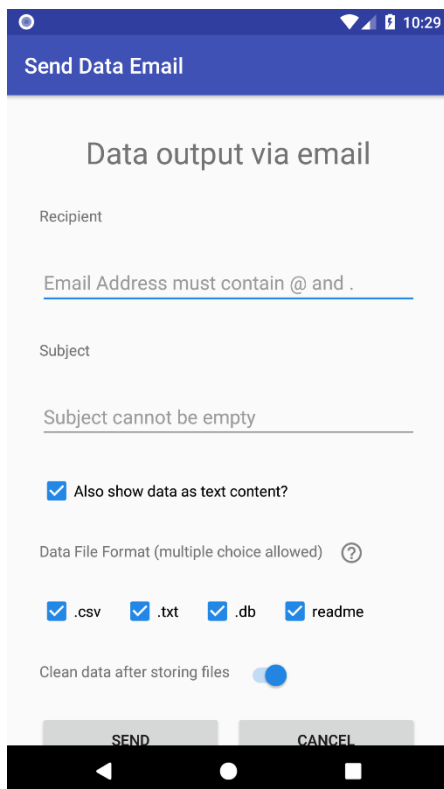
Long click to delete a test.

You can delete a test by long clicking it in the data list.



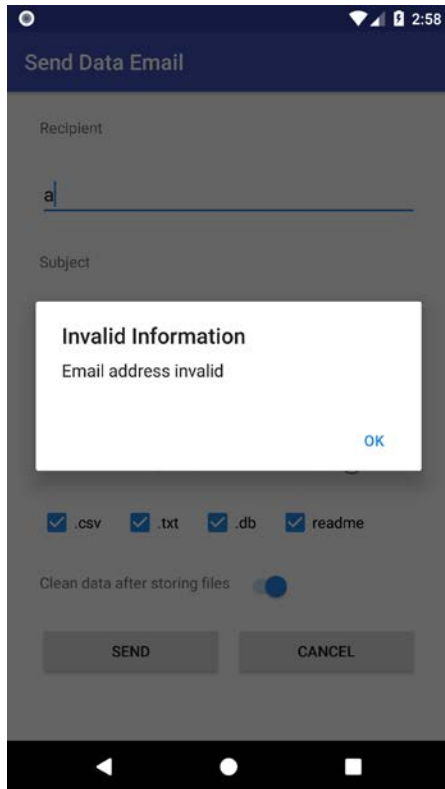
## Sending Data File Email

There must have some test data to be sent via email. If there is no test data, you can't send an email.

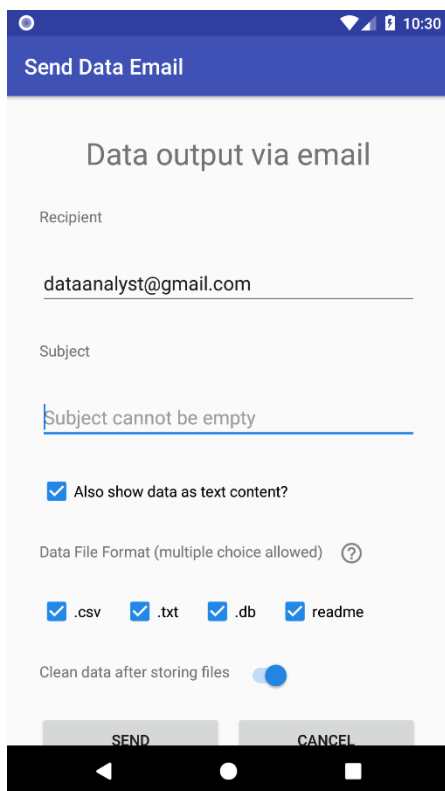


## Email Recipient and Email Subject

You can send all the test data via email. In this page you need to enter the recipient email address, this email address cannot be empty, and it should also be a valid email address, which means it should contain "." And "@". You also need to enter the subject of the email. This cannot be empty as well.

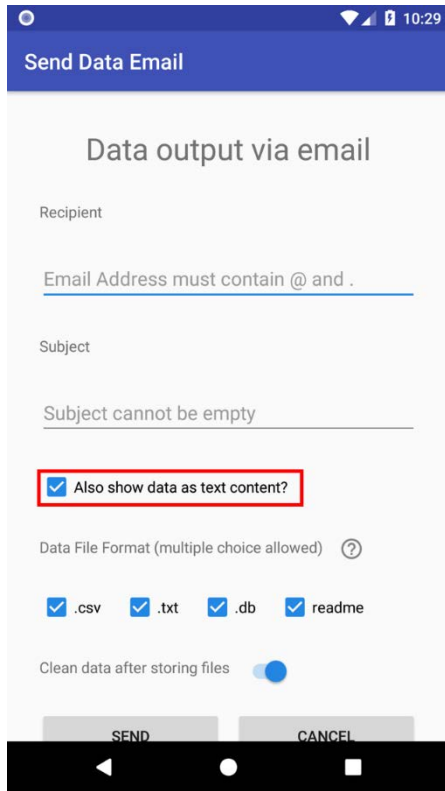


The email address cannot be invalid.



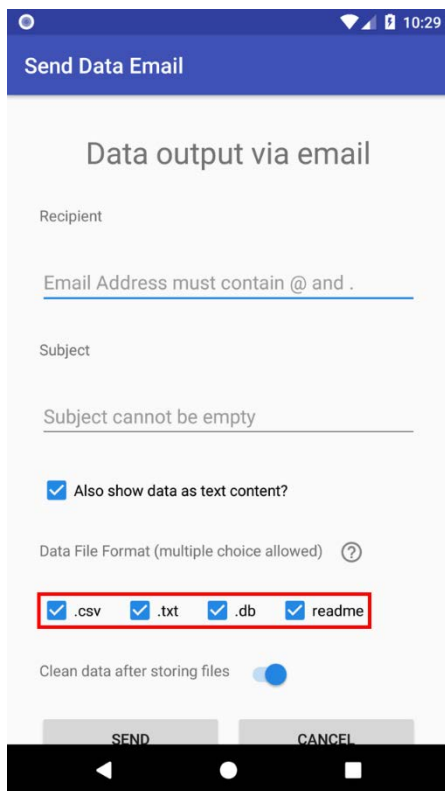
Automatically remember the email address used previously

The app will automatically remember the email address used previously



## Email Content

You can choose to show the data details as content of your email.



## Email Attachment Data Files

You can choose which type of file you want to send. You can choose all of them, but you need to choose at least one.



## Data Files Help

Click here to see what these file types mean.

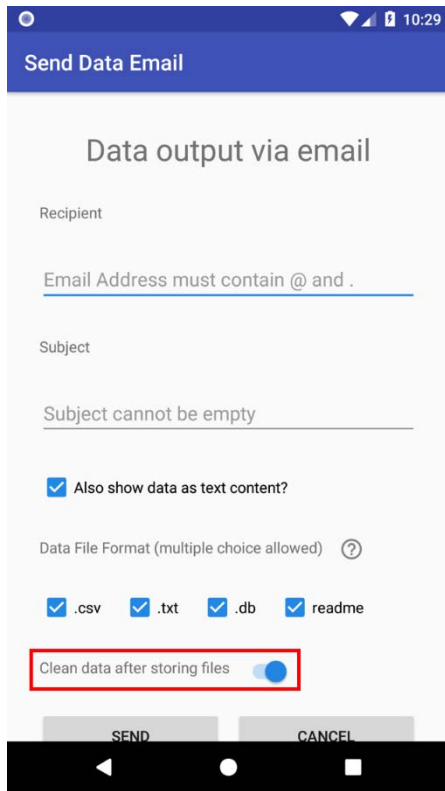
## Help Message

.txt means text file

.csv means comma separated value file

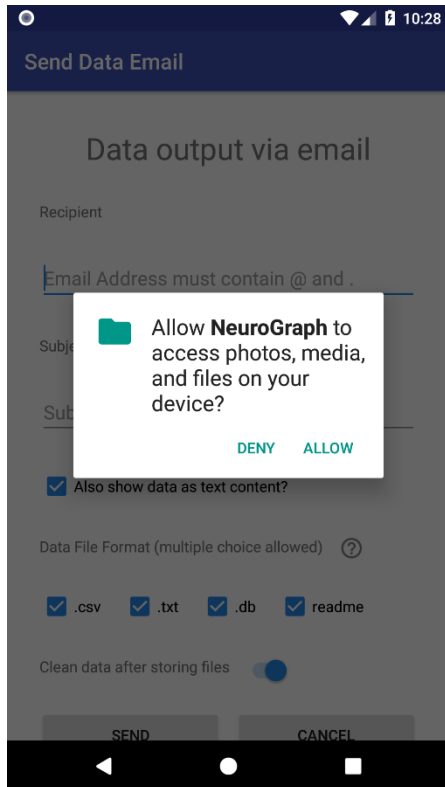
.db means database file

Readme contains the instruction and explanation of the data files.



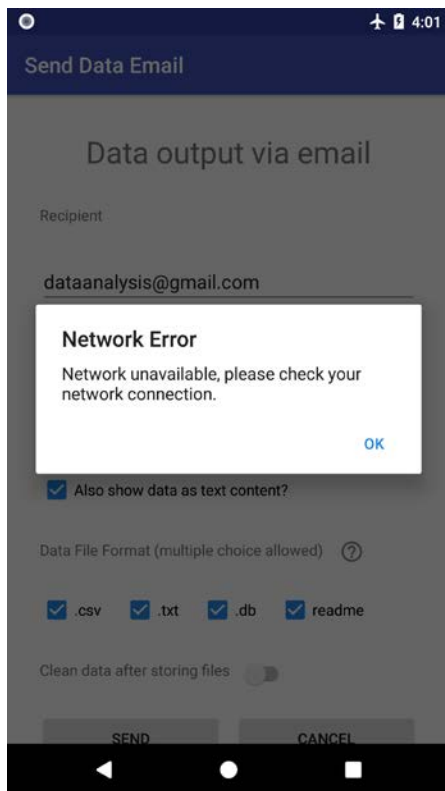
## Clean data after sending files

You can choose to clean all the test data on this device after sending the data email.



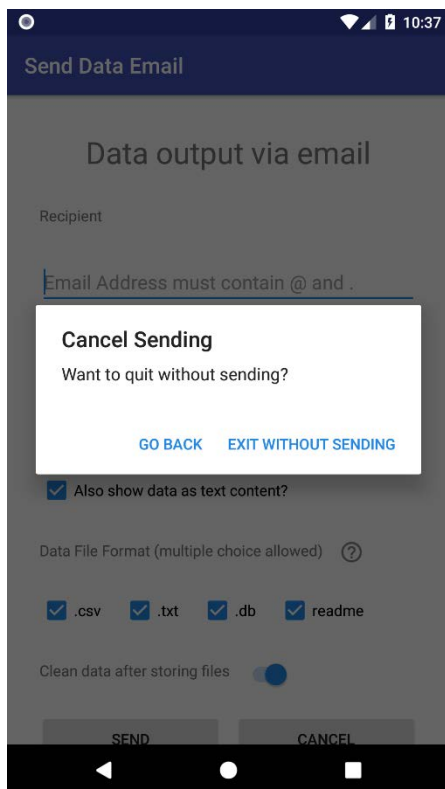
## Permission

For a successfully sending, you need to grant the permission to Neurograph. This permission granting message will only be shown once. You can go to your device's setting to change the permissions.



## Network Connection

For a successfully sending, your device needs to connect to a stable network, either WiFi or mobile network. The app will automatically detect network state, if there is no network connection, you cannot send an email.



## Cancel sending

You can click "Cancel" to cancel sending this email.

Send Data Email

Recipient

dataanalysis@gmail.com

Subject

Neurograph Test Data Files

☒ Also show data as text content?

Data File Format (multiple choice allowed) ?

☒ .csv ☒ .txt ☒ .db ☒ readme

Clean data after storing files ☒

SEND CANCEL

## Send it

Click “Send” to send it. During the sending process please do not close the app.

Sending Email

Sending Progress

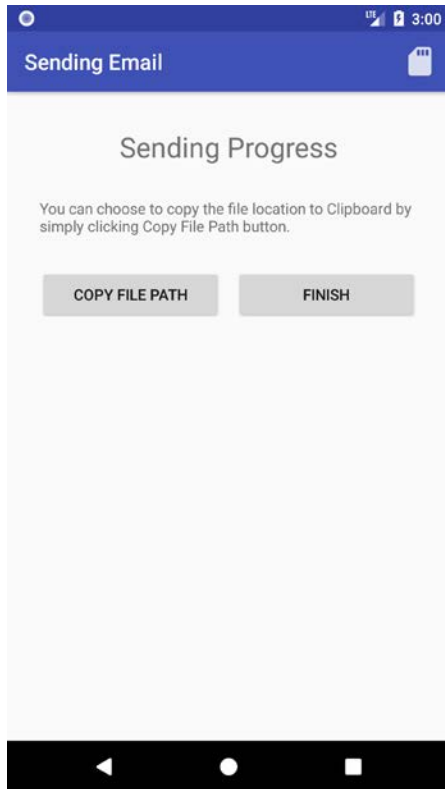
You can choose to copy the file location to Clipboard by simply clicking Copy File Path button.

**Sending**  
Please DO NOT close the app while processing.

48% 966/2015

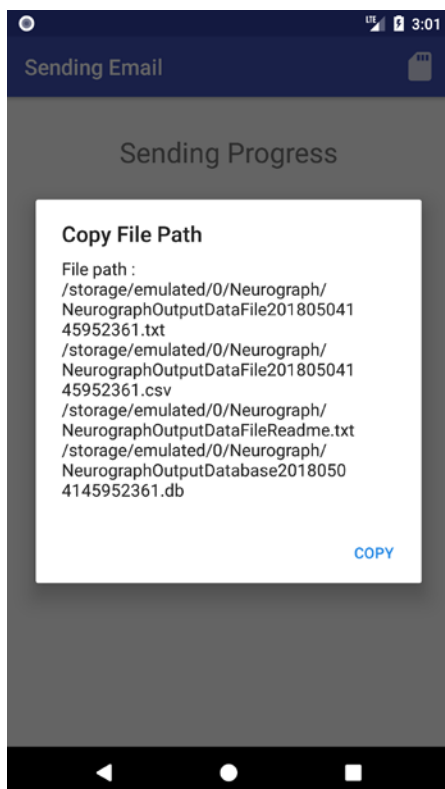
## Sending Progress

During the sending progress, please do not close the app, otherwise the data email cannot be sent successfully.



## Successfully Sent

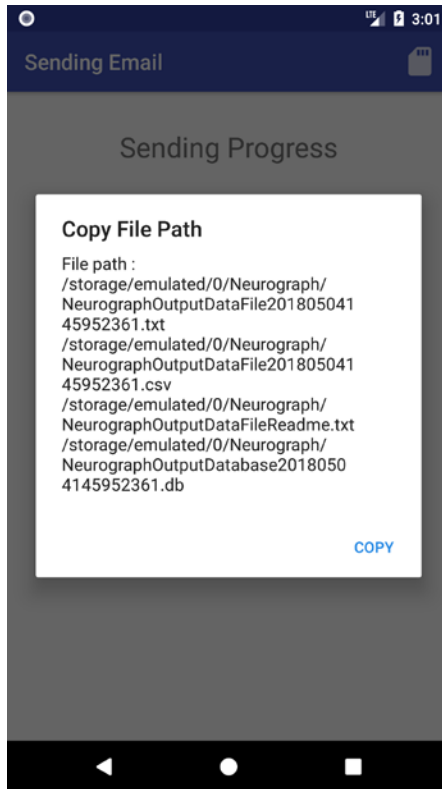
The email which contains the data files has been sent successfully, and the data files have also been stored on your device.



## Notification

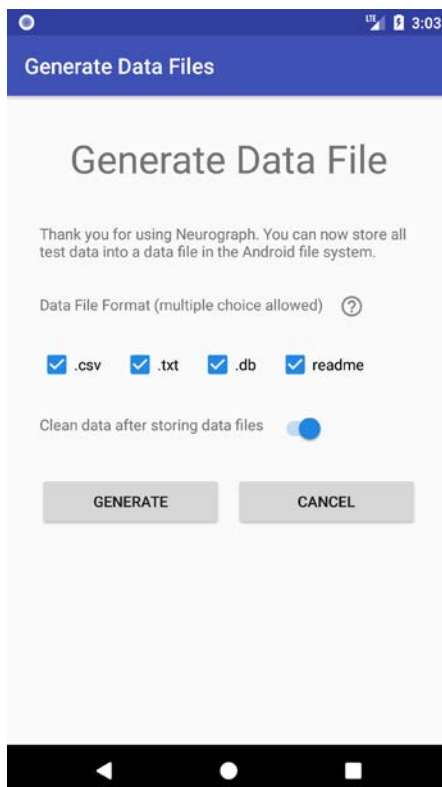
When the sending process finished, you will receive a notification.

// TODO



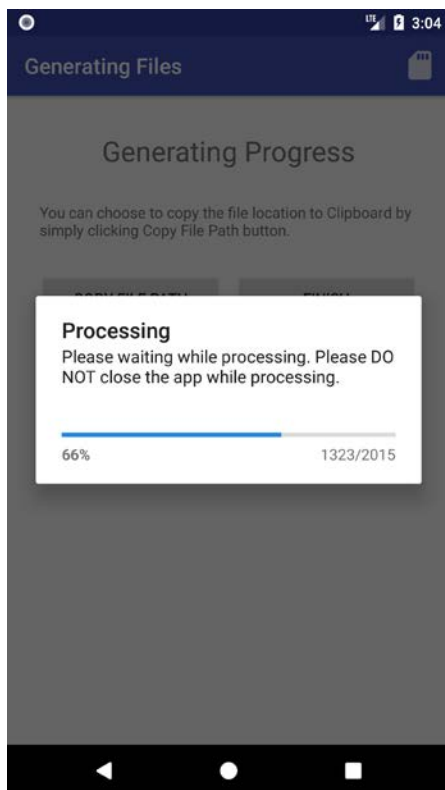
## Copy File Path

You can copy the file path of the data file to clipboard.



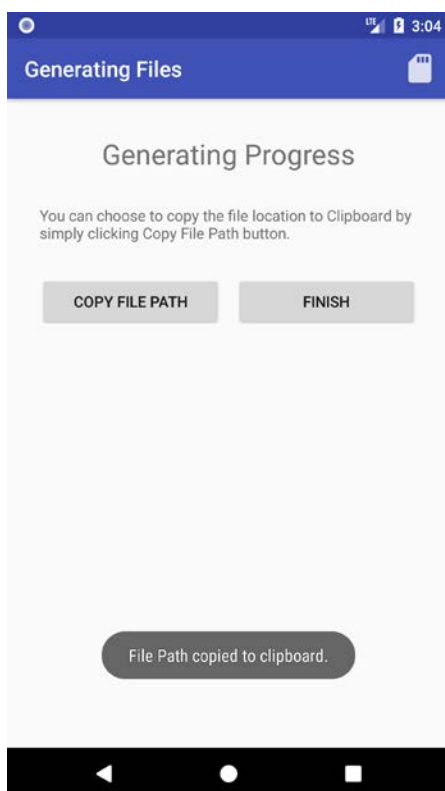
## Store Data File

You can store the data file without sending it through email. You also need to choose the file type you want to store, you can choose all of them and you need to choose at least one of it. After storing data file, you can choose to clean all the test data. Click "Help" to see what these file types mean.



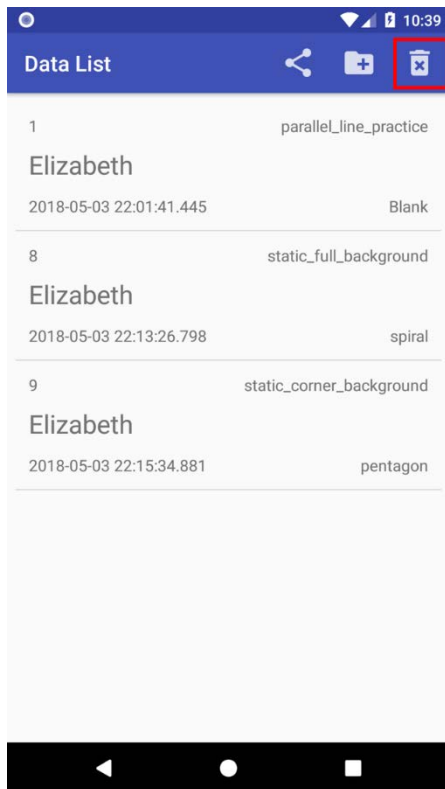
## Generating Progress

During the generation process please do not close the app.



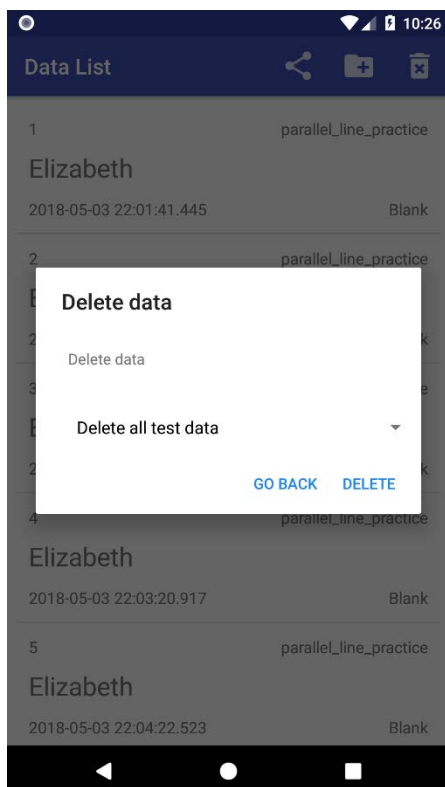
## Copy File Path

You can copy file path to the clipboard.



## Delete Data

You can click here to delete data.

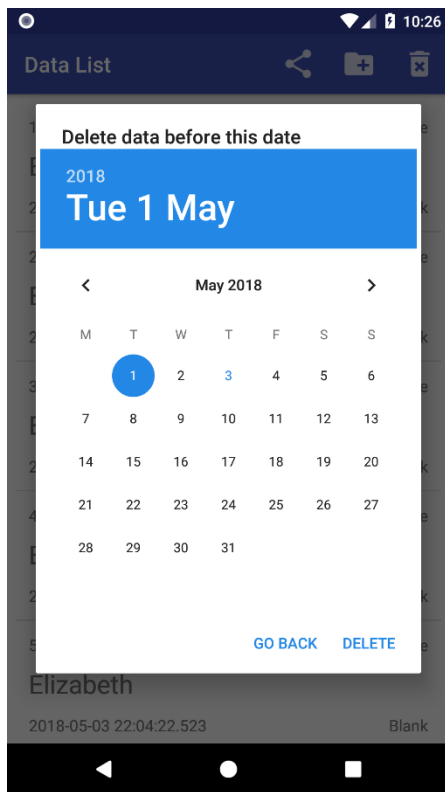


## Three delete options.

There are three deletion options.

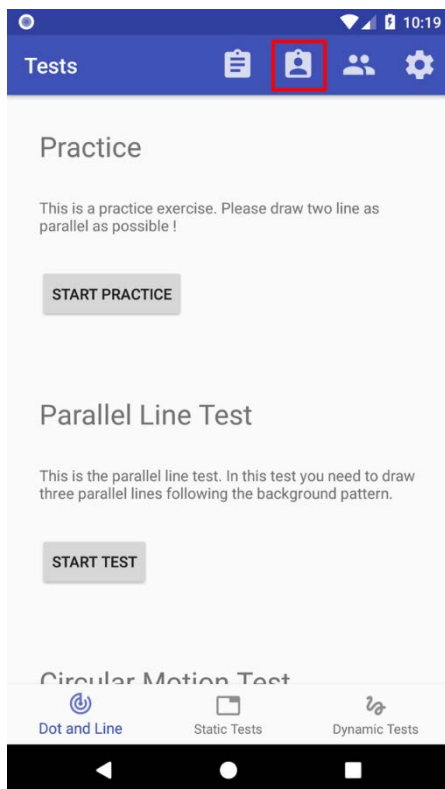
You can choose to delete all the test data only, delete all the test data before a specific date, or delete all the user and test data, and this will restart the app.





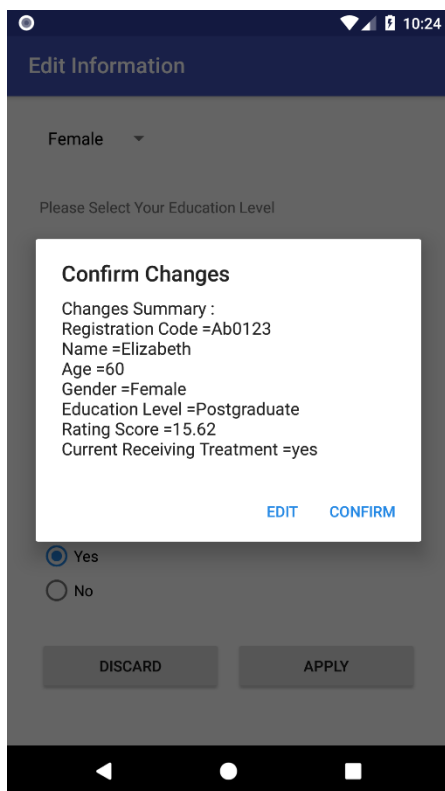
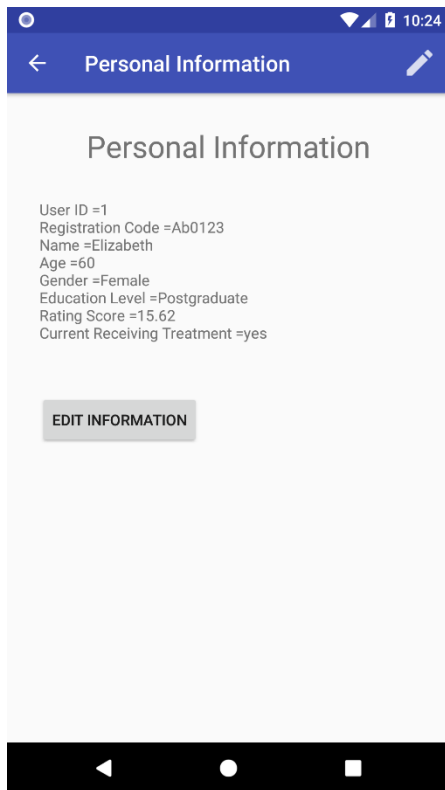
## Delete test data before specific date

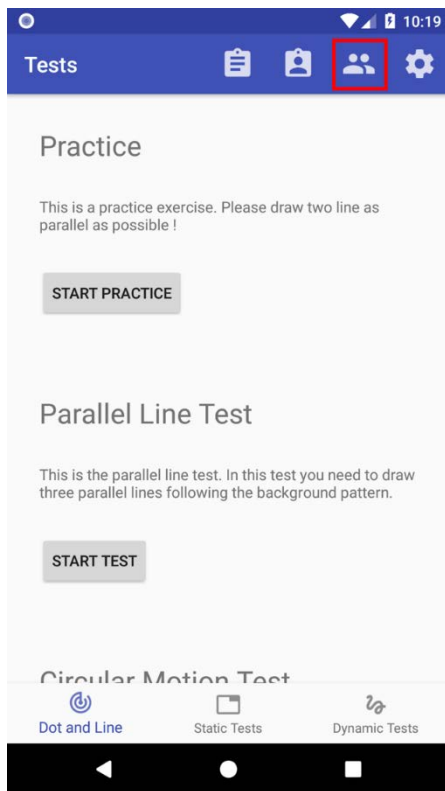
You can delete test data before a specific date.



## View and Edit Personal Information

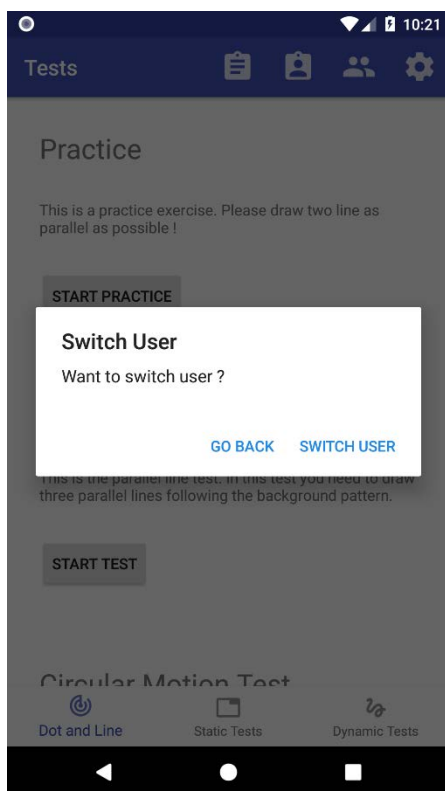
You can click here to view or edit your personal information.

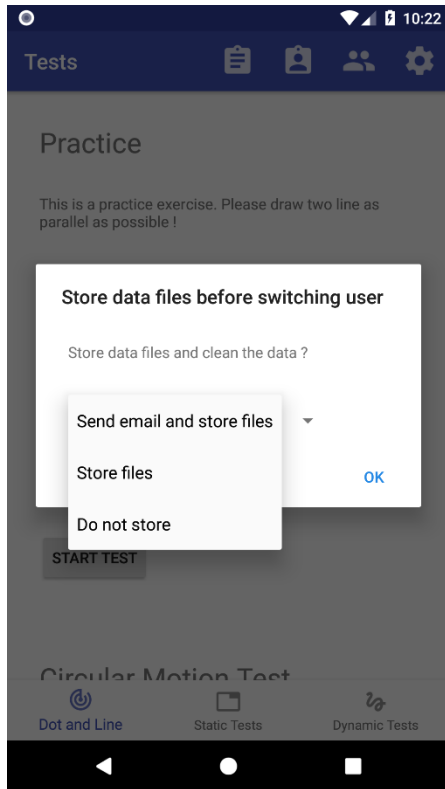




## Switch User

You can click here to switch user.





## Store Files before switching user

You can choose to send data email, store data file before switching user. Or you can also choose not to store at this point.