NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **Calculator Bug2**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **Calculator Bug2**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately Calculator Bug2 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
I swiped right on the top half of the screen.
I touched the "Hex" button.
I touched the "A" button.
I touched the "B" button.
I touched the "C" button.
I touched the "Dec" button.
I touched the button with three stacked squares next to backspace.
I touched the "Advanced panel" menu option.
```

---

6. If you got the crash message, stop your "stopwatch," write down time in 7.
7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug? _____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash? _____

7.3.
	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **Calculator Bug3**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **Calculator Bug3**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately Calculator Bug3 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
I touched the "7" grid item
I touched the "5" grid item
I touched the "+" grid item
I touched the "sin" grid item
I touched the "3" grid item
I touched the "." grid item
```

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug? _____
7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash? _____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **Calculator Bug4**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **Calculator Bug4**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately Calculator Bug4 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
I swiped left on the bottom half of the touch screen.
I touched "[]" button.
I touched "+Row" button.
```

---

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug? _____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash? _____

7.3.
	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **Calculator Bug5**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **Calculator Bug5**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately Calculator Bug5 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
I swiped left on the bottom half of the touch screen.
I touched "[]" button.
I touched "+Row" button.
I touched "+Col" button.
I touched "1" button.
I touched "Next" button.
I touched "2" button.
I touched "Next" button.
I touched "3" button.
I touched "Next" button.
I touched "4" button.
I touched "Next" button.
I touched "5" button.
I touched "Next" button.
I touched "6" button.
I touched "Next" button.
I touched "7" button.
I touched "Next" button.
I touched "8" button.
I touched "Next" button.
I touched "9" button.
I touched "Next" button.
I touched "T" button.
I touched "=" button.
```

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug? _____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash? _____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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_____

7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **Frex Bug2**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **Frex Bug2**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately Frex Bug2 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
1. User presses the menu item on the screen;
2. System shows the options available;
3. User selects the Settings option;
4. System shows the Settings available;
5. User presses the "Delete all Files" option;
6. System shows an alert window;
7. User presses the OK button;
8. System crashes;
```

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6. If you got the crash message, stop your "stopwatch," write down time in 7.1
7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug? _____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash? _____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **Frex Bug4**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **Frex Bug4**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately Frex Bug4 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
1. User presses the menu item on the screen;
2. System shows the options available;
3. User selects the "Save Fractal" option;
4. System shows a message which confirms that the operation was done;
5. User presses the menu item on the screen;
6. System shows the options available;
7. User selects the "Manage Fractals" option;
8. System shows all the fractals previously saved;
9. User chooses the fractals that he wants to delete;
10. User presses the delete button;
11. System crashes;
```

---

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug? _____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash? _____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

_____

_____

7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **GM Dice Bug1**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **GM Dice Bug1**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately GM Dice Bug1 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
1. User long-presses one of the dice-button;
2. System shows the options available;
3. User selects the "More..." option;
4. System shows a window where the user can configure the dice;
5. User presses "+" button in order to customize the dice;
6. System crashes;
```

---

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug?
_____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash?
_____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

_____

_____

7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

4. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **GM Dice Bug1**

5. Tap on the buttons **"clear data"** and **"clear cache"**

6. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **GM Dice Bug1**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately GM Dice Bug1 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
I touched the "..." button at the bottom of the touchscreen.
I touched the "More..." list view item in the window that appears.
I touched the plus button on the left side of the touchscreen in the
window.
```

---

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug?
_____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash?
_____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **GM Dice Bug2**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **GM Dice Bug2**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately GM Dice Bug2 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
1. User presses the menu button;
2. System shows the available options;
3. User presses the "About" option;
4. System crashes without showing the About page;
```

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug? _____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash? _____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____

NEW TASK

1. Tap on the **"settings"** button and then tap on the **"apps"** option. Then click on the application with the icon **GM Dice Bug3**

2. Tap on the buttons **"clear data"** and **"clear cache"**

3. Go back to the home screen by tapping on the **"back"** button, and then open the Android application identified with the icon **GM Dice Bug3**

4. Start your stopwatch at 00:00:00.00

5. Read the following bug report and try to follow the steps exactly in the app. Every time you reproduce all the steps you have to start from the app's initial state (you may need to do it more than once if you fail to reproduce a crash). This means you have to tap on the back button to go back to the home screen, and click on the app icon again. The main objective for reproducing the steps in a given bug report is to crash the app. You will know that the app crashes when you see a message saying **"Unfortunately GM Dice Bug3 has stopped". If you cannot reproduce the crash within 30 minutes, you should skip to step 7.1.**

Steps to reproduce the crash:
```
1 - Tap on the 'More' button. The app should crash.
```

---

6. If you got the crash message, stop your "stopwatch," write down time in 7.1

7. After the instructor verifies the crash, please answer the following questions:

7.1 How much time did it take you to reproduce the bug?
_____

7.2. Were you able to reproduce a bug?   YES / NO.   If yes, how many trials did it take you to go through the steps to reproduce before you could reproduce the crash?
_____

7.3.

	Non-readable	Somewhat readable	Average	Mostly readable	Perfectly readable
How readable is the bug report?					

7.4.

	Totally wordy	Somewhat wordy	Average	Mostly concise	Perfectly concise
How concise is the bug report?					

7.5.

	Very difficult to reproduce	Somewhat difficult	Average	Mostly easy to reproduce	Very easy to reproduce
How easy was it to reproduce the bug report?					

7.6. Justify your ratings for readability, conciseness and reproducibility.

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7.7. Explain what can be improved in the bug report to increase its readability, conciseness and reproducibility.

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Participant Name: _____