

ElementDroid

[e-Droid]

User's Manual

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SYSTEM OVERVIEW

ElementDroid (e-Droid) originally is an iOS application developed by (Yu, S., Alajas, F., et.al.). It is a periodic table application that stores information about the all the elements. Users will tap a certain element, and the information will pop out. Application will be developed under Android. What's different with the android version is the game.

SYSTEM REQUIREMENTS

Minimum Hardware Requirements

Processor : 800 MHz

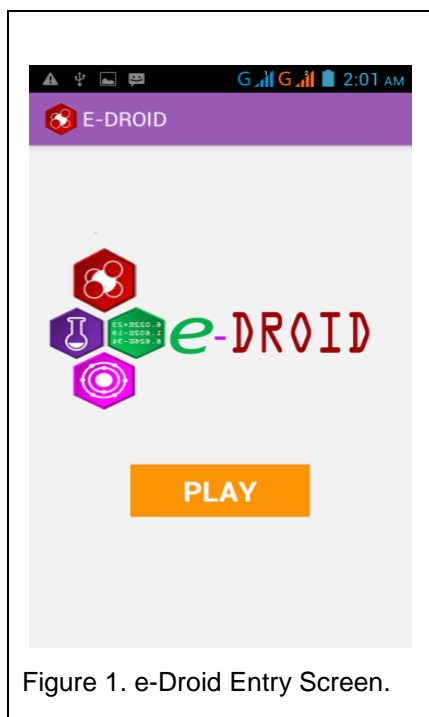
Minimum Software Requirements

Operating System : Android 2.2 [Froyo]

HOW TO USE

This part of the manual explains how to use the application. The user interface itself provides a simpler navigation in order for the users help themselves.

ENTRY SCREEN



Once started, the **Entry Screen** contains the logo of the application. Press **PLAY** in order to go to the next screen.

MENU SCREEN

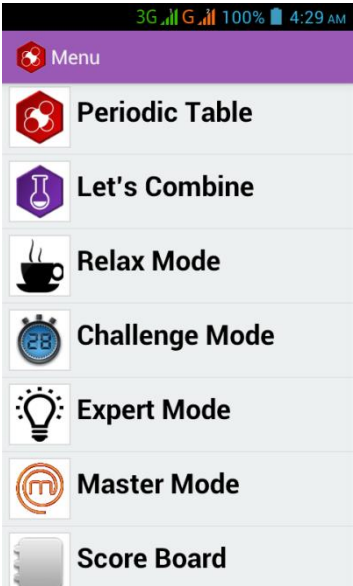


Figure 2. e-Droid Menu Screen.

From the **Entry screen**, you will be redirected to Menu screen where you can see a list of choices. Each item will bring you to other entry. It includes Periodic Table, Let's Combine, games with different modes: Relax Mode, Challenge Mode, Expert Mode, and Master Mode Score Board, Help.



Periodic Table



Let's Combine



Relax Mode



Challenge Mode



Expert Mode



Master Mode

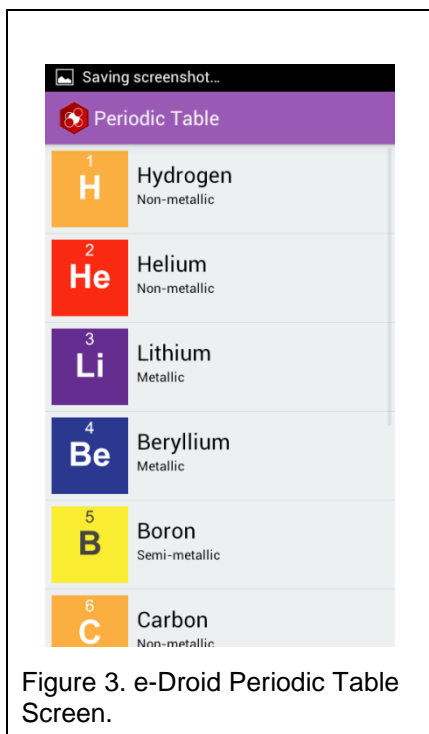


Score Board



Help

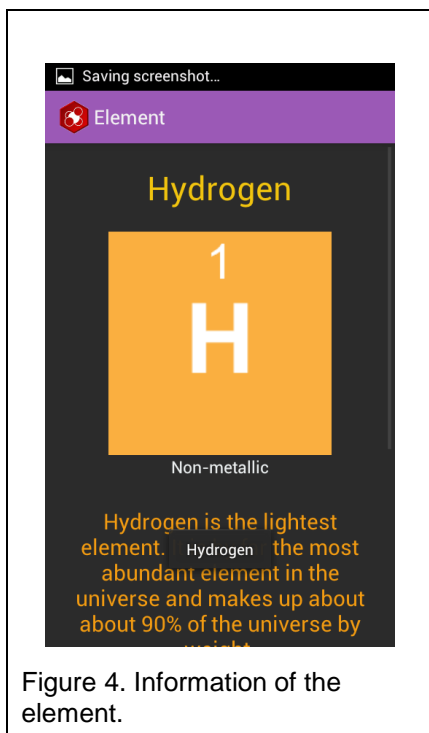
PERIODIC TABLE



From Menu, once you pressed item, Periodic Table, you will then be redirected to the Periodic Table screen where it lists all the elements in the periodic table.

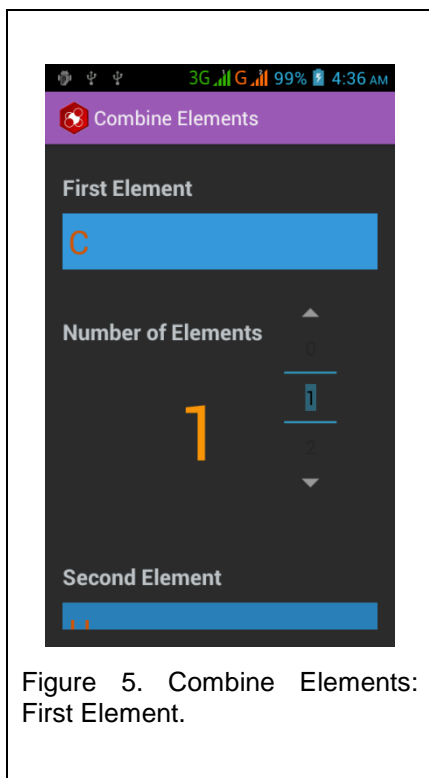
In the screen, each entry of the element contains the name element name, the element symbol and the element classification. Each item can be selected in order to view the details of a particular element..

ELEMENT INFORMATION



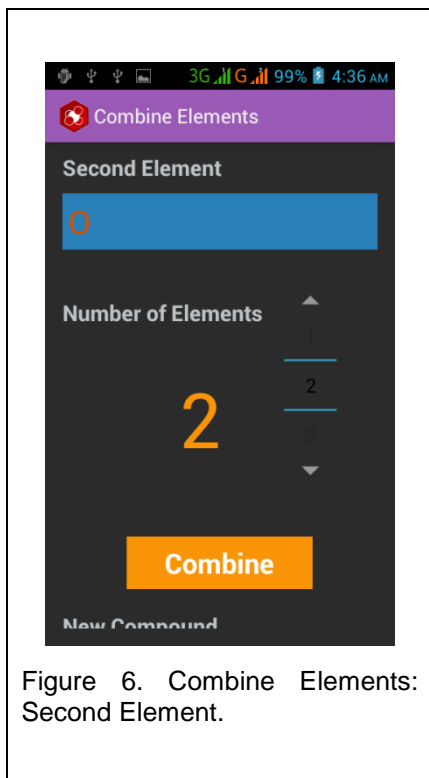
Once you have selected an element from the list found in the Periodic Table screen, you will then be redirected to the element screen. In this screen you can see the details regarding to the selected element.

COMBINE ELEMENTS



From Menu, once you pressed item, Let's Combine, you will then be redirected to the Combine Elements screen where user can combine two elements with corresponding quantity of elements.

You can combine two elements of different element name, two elements of the same name; but you can't combine empty entry.



You have the choice to input the second element: either the same as the previous one or different. The number of elements suggests that there N elements. If number of elements is Zero, it means that there's no element to be added for combination.

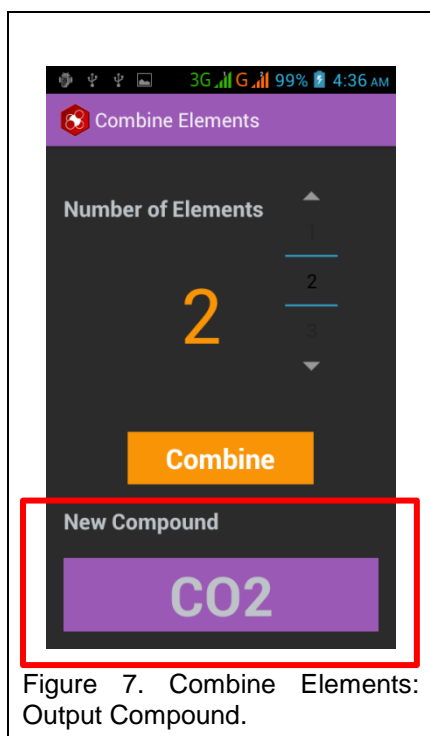


Figure 7. Combine Elements: Output Compound.

Once the Combine button is pressed, the output will be displayed below. NOTE: as of now, there's no validation function whether that certain combination (or compound) really exists. What the function suggests here is that it can combine two elements.

ADD USER

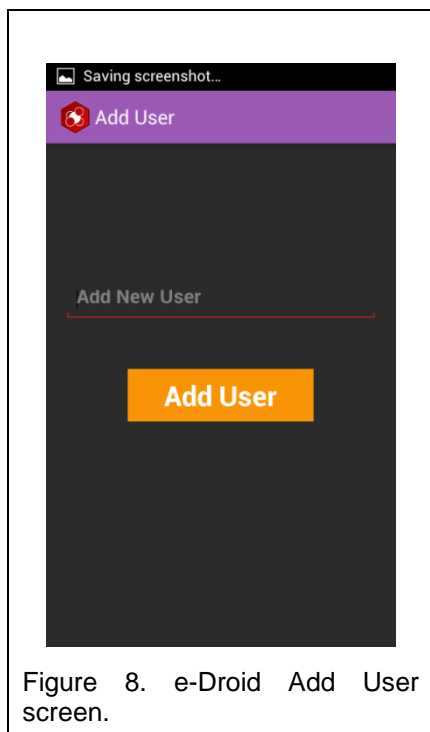


Figure 8. e-Droid Add User screen.

From the menu screen, Relax Mode, Challenge Mode, and Expert Mode will ask for specific user

If the user is not found in the user list, or you haven't created one yet, you can choose to add new user.

You have to input the desired username. Then add user.

RELAX MODE

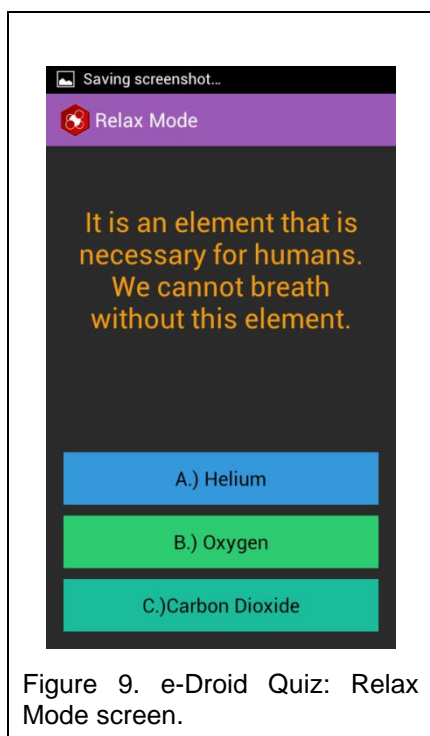


Figure 9. e-Droid Quiz: Relax Mode screen.

From the Menu screen, selecting the relax mode will bring you to this screen. This is a practice in order to know and familiarize the elements.

It's a multiple choice practice exam. Every after selection of the answer, it will give the correct answer. Scores will not be recorded in the relax mode.

CHALLENGE MODE

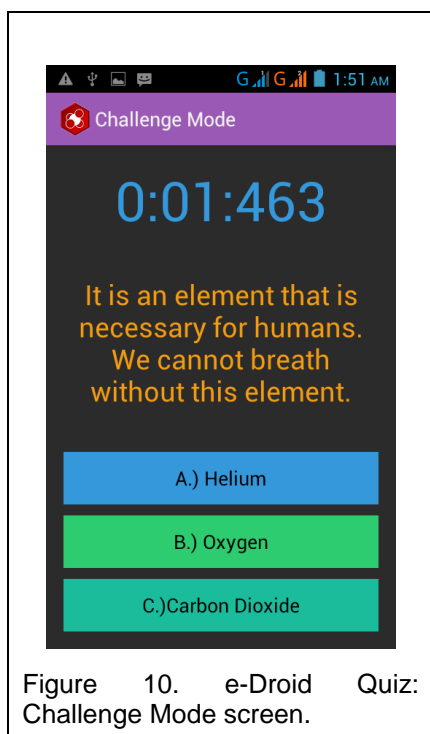
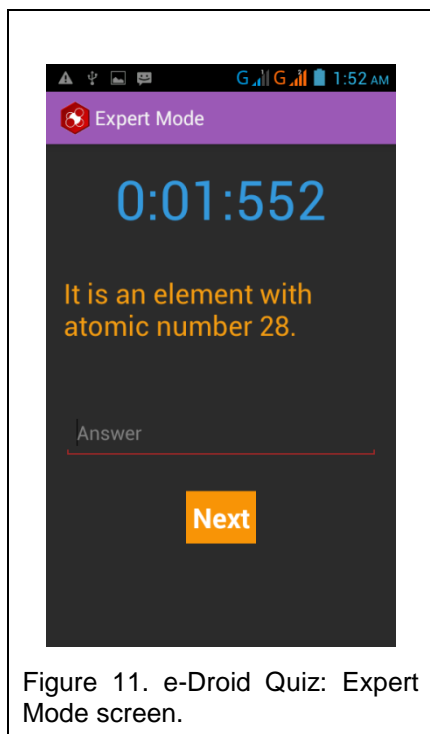


Figure 10. e-Droid Quiz: Challenge Mode screen.

From the Menu screen, selecting the challenge mode will bring you to this screen. The same as with the relax mode but what makes it different is that it has already a timer.

It's a multiple choice exam. Every after selection of the answer, it will give the correct answer. Scores will be recorded.

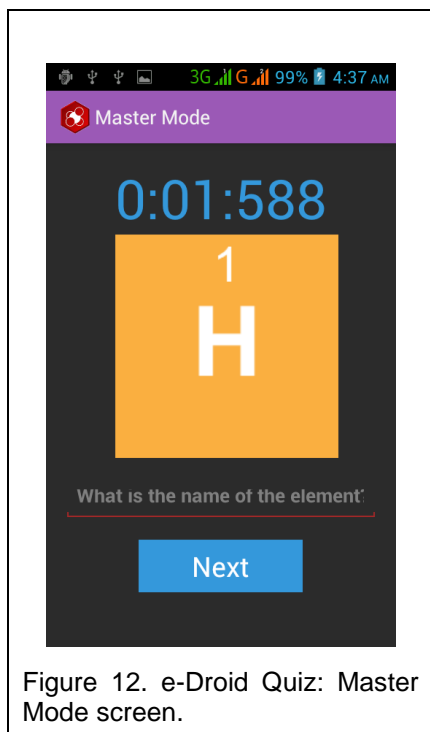
EXPERT MODE



From the Menu screen, selecting the expert mode will bring you to this screen. This is the most challenging part in learning the periodic table.

It's an identification exam. Every after, it will give the correct answer. Scores will be recorded.

MASTER MODE



From the Menu screen, selecting the master mode will bring you to this screen. It is a different kind of quiz. It has two levels: Element Symbol-to-Element Name & vice-versa. It is a time limit quiz where scores are totalled at the end. Scores will be recorded.

MASTER MODE: LEVEL 2

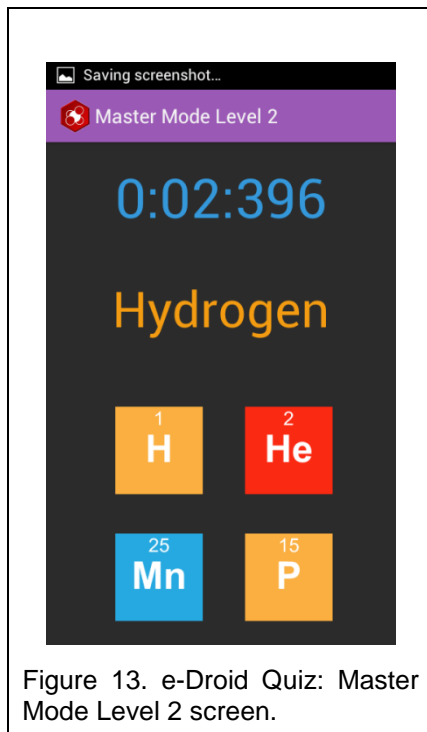


Figure 13. e-Droid Quiz: Master Mode Level 2 screen.

Once you completed the Level 1 Master Mode, you will be then directed to Level 2. Here, you will be given an Element name. You have to determine which Element Symbol it correctly fits by selecting from the choices below of the given Element name. If correctly chosen, you will be then directed to another item until the time limit ends.

CHOOSE USER

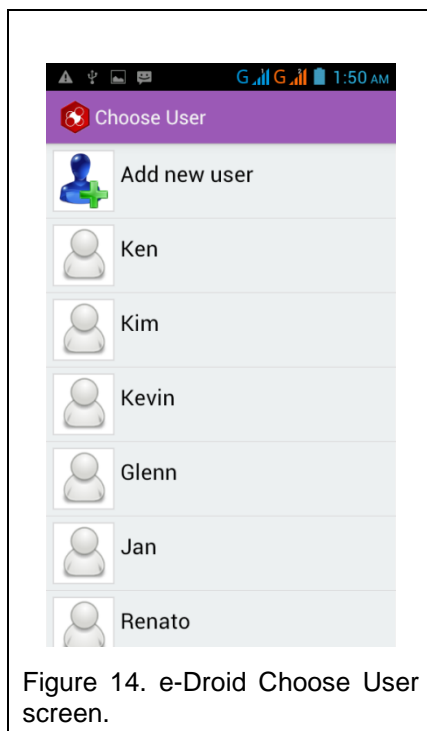
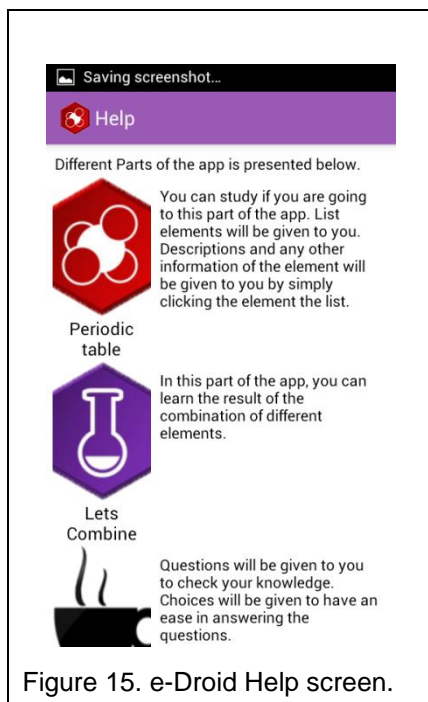


Figure 14. e-Droid Choose User screen.

From the menu screen, Relax Mode, Challenge Mode, Expert Mode, and Master Mode will ask for specific user.

Choose user screen will let you select a user before going to the games. Thus, what score you have in the different score, will be recorded to the respective selected user.

HELP



This contains an overview of each item in the menu list. Each item in the list has a little description in this screen.

RECOMMENDATIONS

ElementDroid (e-Droid) is a prototype of a whole. The developed application doesn't have a back-end yet (database). It is recommendable to supply with a database that will eventually do CRUD (Create, Read, Update, Delete) functionalities. Combined elements are also recommended to have information, the same as an element does. Initiate other games/activities that will test the learning of the user. Integrate chemistry computations that involve the periodic table of elements. Improve the user interface that it will look more presentable to the users, especially teachers and high school students.