

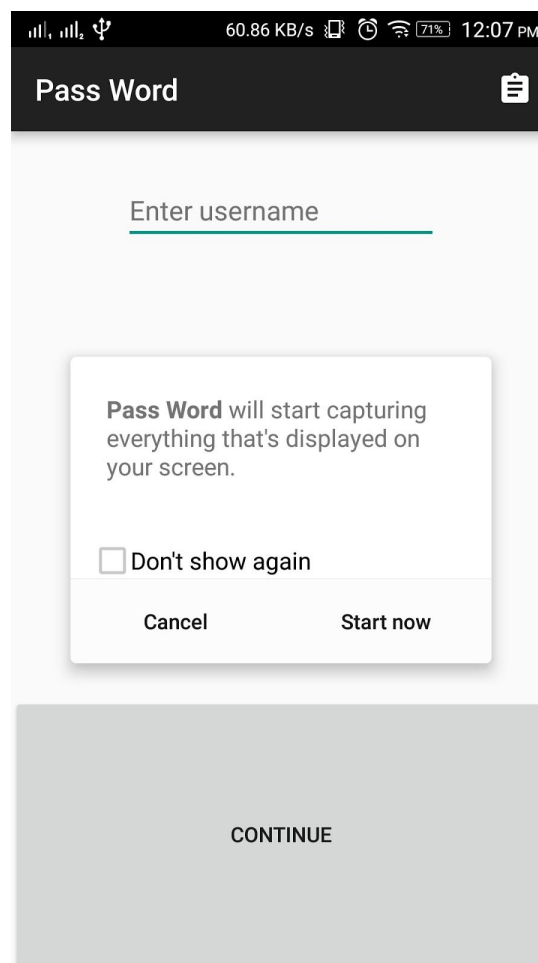
# Dynamic Password Application- Text

## Overview

The text password application allows user to select a password based on words. The user needs to remember the chosen expression and his selected password type to successfully login.

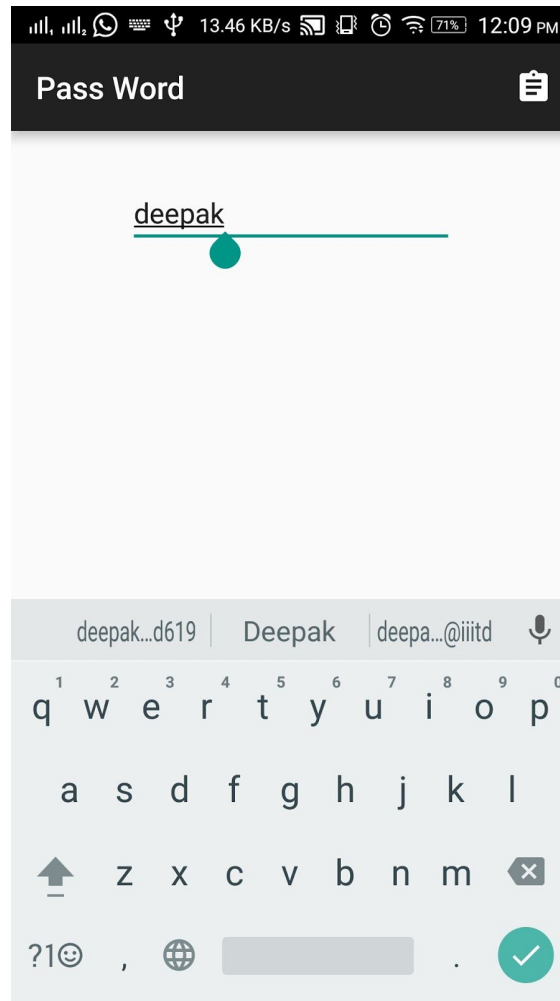
## Registration Phase

1. When you open the Text Password Application, you will encounter the following pop up.



Select **start now**. If you select cancel you will not be able to use the application further.

2. Next, enter any username, preferably your name and continue.




3. Next, enter any expression or a phrase in the given text field (this you need to remember at the time of login). Below are some examples of the expressions which you can use or refer.

Examples:

**HARD WORK IS THE KEY  
TO SUCCESS**

WITH GREAT POWER COMES  
GREAT RESPONSIBILITY

 **An Eye for an Eye Makes  
the Whole World Blind.**  
- *Gandhi*

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4. Make sure the expression is easy to remember and difficult to judge by a person watching you login.

hard work is the key to success

Examples:

HARD WORK IS THE KEY  
TO SUCCESS

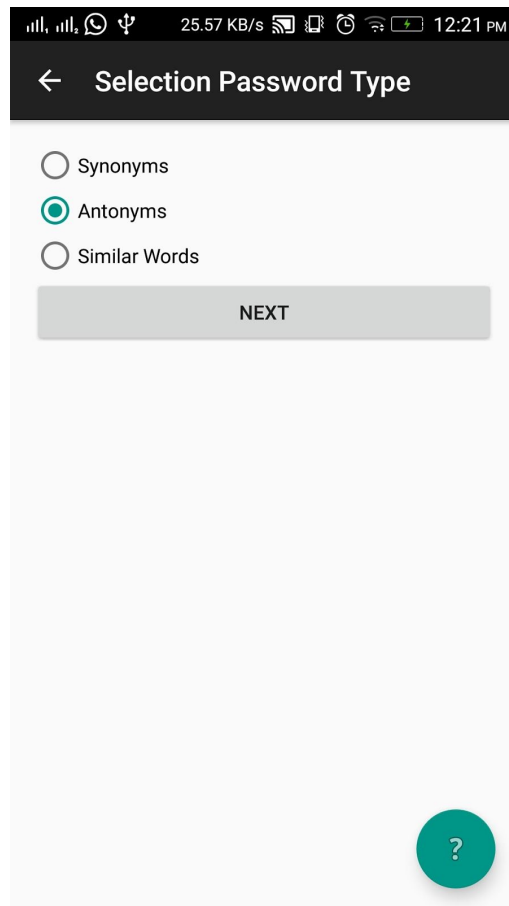
WITH GREAT POWER COMES  
GREAT RESPONSIBILITY

 **An Eye for an Eye Makes  
the Whole World Blind.**  
- *Gandhi*

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5. Your expression should at least have 3 relevant or important words as we will not be including words like a, am, is, and etc while logging in. These are only important for the expression to make sense which makes it easier to remember.

6. Next, you can choose among any of the antonyms/ synonyms/similar words category. This will further display the list of words falling in the category. The words contained in the list will actually be a part of your password.



7. After you select a category (ex antonyms), a list falling under this category will be displayed (list of antonyms) for the first relevant word in the password expression.

21.41 KB/s 12:22 PM

← Select Words

Select Synonyms/Antonyms/Similar Words - HARD

hard	<input type="checkbox"/>
easy	<input type="checkbox"/>
soft	<input type="checkbox"/>
voiced	<input type="checkbox"/>

NEXT

+

8. The same will continue for all the relevant words.

9. You need to select atleast one word in the given list. You also have an option of adding more words to the list. You need to remember all the words you select as this is your password.

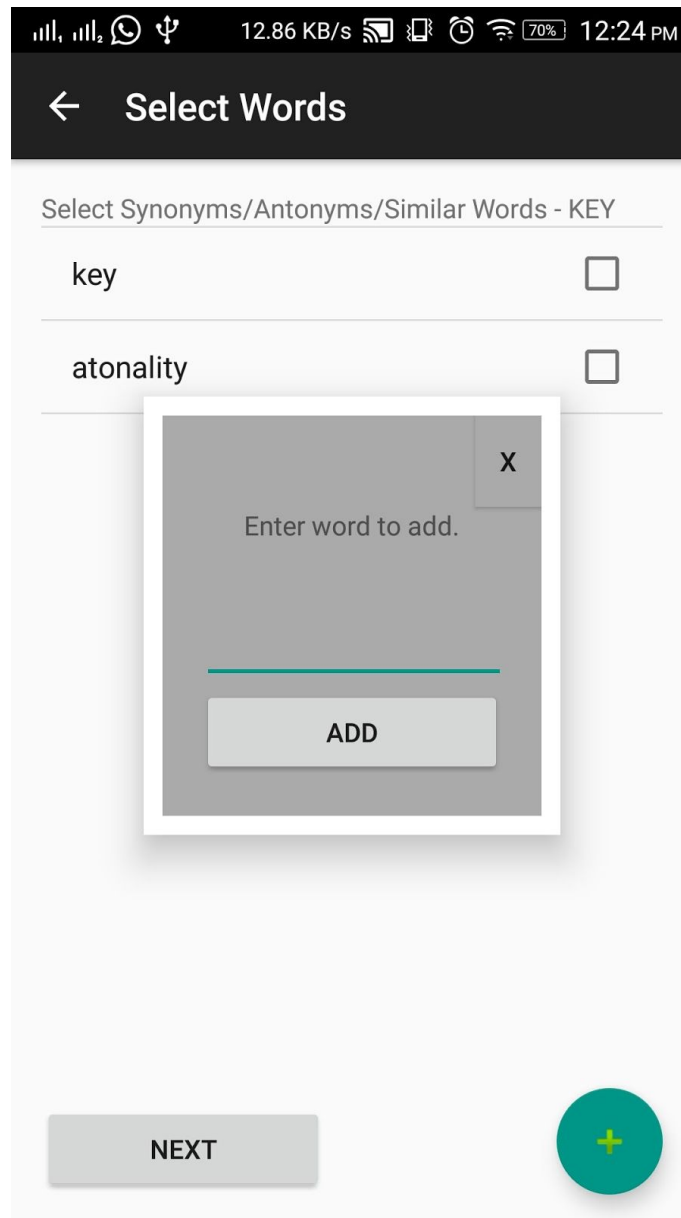
The screenshot shows a mobile application interface. At the top, a status bar displays network signal, data speed (66.24 KB/s), battery level, and time (12:23 PM). Below this is a dark header bar with a back arrow and the text "Select Words". The main content area has a title "Select Synonyms/Antonyms/Similar Words - HARD" followed by a list of words with checkboxes. The words are "hard", "easy", "soft", and "voiced". The checkboxes for "easy" and "soft" are checked, while "hard" and "voiced" are unchecked. At the bottom, there is a grey "NEXT" button and a green circular button with a yellow plus sign.

Select Synonyms/Antonyms/Similar Words - HARD	
hard	<input type="checkbox"/>
easy	<input checked="" type="checkbox"/>
soft	<input checked="" type="checkbox"/>
voiced	<input type="checkbox"/>

NEXT

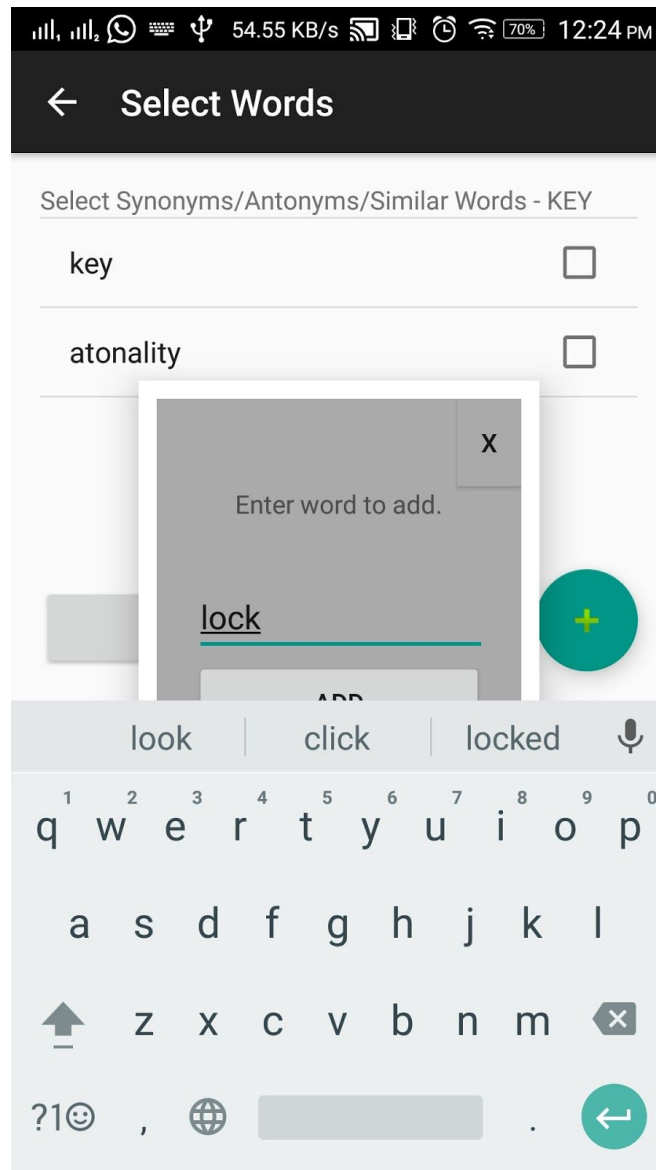
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10. You can also add the word by clicking on the add button to your bottom-right of the screen.





11. Add the word you want to add and click on add.



12. Repeat the process for other words.

The image shows two side-by-side screenshots of a mobile application interface. Both screens have a dark header bar with a back arrow and the title "Select Words". The status bar at the top of each screen shows various icons, signal strength, and the time 12:25 PM.

The left screen is titled "Select Synonyms/Antonyms/Similar Words - KEY". It contains a list of three words, each with a checkbox to its right:

- key ☐
- atonality ☐
- lock ☒

The right screen is titled "Select Synonyms/Antonyms/Similar Words - SUCCESS". It contains a list of three words, each with a checkbox to its right:

- success ☐
- failure ☒
- loser ☐

At the bottom of each screen, there is a grey button labeled "NEXT" and a green circular button with a white plus sign.

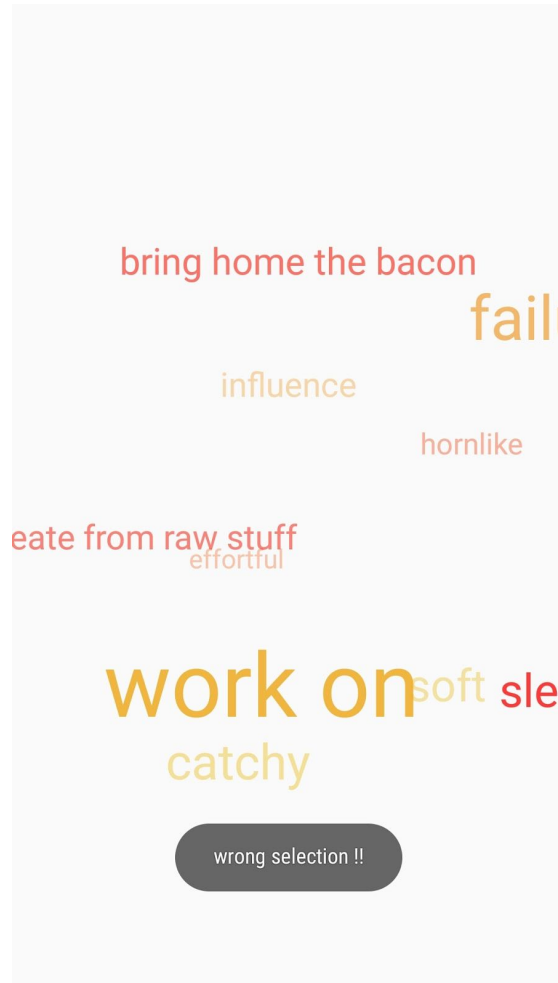
13. Once you are done for all the relevant words there is a word cloud displayed containing 3 random words you selected from the list and others are the words you did not select.



14. You need to identify those 3 words to verify successfully. Touch the word and move the cloud, this way the word you touched turns purple.Touch and move for all 3.



15. In case you selected the wrong word, you can also deselect the words in the cloud by touching them again and to check move the cloud, the word retains it's original color.
16. In case you touched wrong set of words, a toast is displayed saying "wrong selection". You will be given 3 attempts to get your password right.



17. This completes the registration process.
18. Next, you need to login using the password you just verified. Please make sure you don't copy or write the password. The main goal of the user study is to see if the user is able to remember the password.

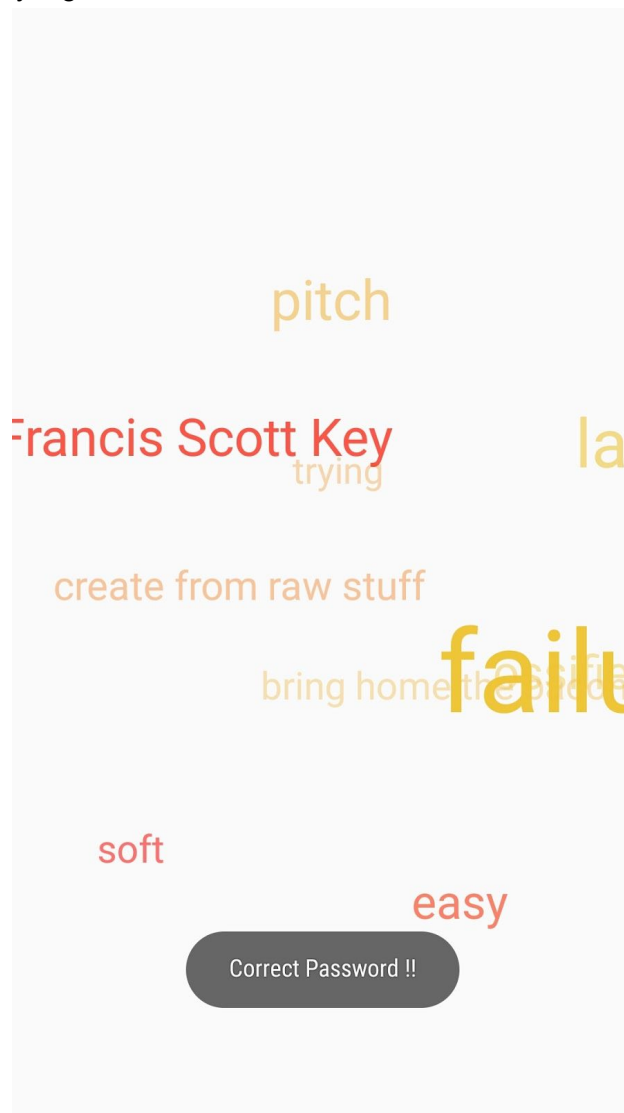
## Login Phase I

You need to login the same day you register and verify the password.

1. Enter the username you entered at the time of sign up (registration). Press continue.

The screenshot shows a mobile application interface for a login phase. At the top, there is a status bar with various icons and the time 12:26 PM. Below the status bar is a dark header with the text "Pass Word" and a clipboard icon. The main area is a light gray background with a text input field containing the word "deepak". Below the text field is a keyboard. The keyboard has a search bar at the top with three suggestions: "deepak...d619", "Deepak", and "deepa...@iiitd". The keyboard itself has three rows of keys: the first row contains "q", "w", "e", "r", "t", "y", "u", "i", "o", "p"; the second row contains "a", "s", "d", "f", "g", "h", "j", "k", "l"; the third row contains an arrow key, "z", "x", "c", "v", "b", "n", "m", and a delete key. At the bottom of the keyboard is a row of icons: a question mark, a smiley face, a comma, a globe, a gray rectangle, a period, and a green circle with a white checkmark.

2. Next, you need to touch and move the 3 words in the cloud that you selected from the list to successfully login.




3. The words may be different every time you login, but they are certainly from the list of words you selected.
4. In case you are wrong, you will be given 3 attempts in total, in case you fail you will need to repeat the complete login procedure.
5. If you have forgotten your password you need to sign up again with a new user name.


6. Once you get your password right a feedback will appear. Please enter your feedback and press the submit button to complete the login procedure.

### Feedback Form


How easy is to remember the password

Hard  Easy


Ease of registration

Hard  Easy

Ease of login

Hard  Easy


How intuitive is the password scheme

Not so intuitive  Very intuitive

Any other suggestion

Write your thoughts

Overall rating

Low  High

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7. If you forget your password in Login Phase II, your complete login process will be considered as a failed event and you'll have to start from registration again.
8. Next, you need to login after a time period of 1 week. You must not try to login or perform any activity on the application anytime before 1 week. Else, your user study will be considered as a failed user study and you will not receive any incentive.

### Login Phase II

Next, you need to login after a retention period of 1 week. This is to check if you still remember your password or not.

Repeat the same process as in Login Phase I.

**Feedback-** You can shake your phone to give feedback and also include screenshot of any particulars of the screen you are facing problem.