

CS 403

Team 4

getLength/2: getLength(L,L2) reads a length from the user and outputs the number of guesses (L2), if there are no words of this length the user is asked to input a different length.

getCat/2: getCat(C,L) reads a category from the user and adds it to a list(L). If the user enters an input that does not match with a category the user is asked to input another category.

getWordss/3: getWordss(W,L3,L2), W is the word needed to be guessed, L3 is the number of letters of W, L2 is the number of guesses at the given moment.

play/0: lists the available categories and asks the user to pick one and choose the required length. According to the chosen category and length, a word is matched to the knowledge base and the guessing starts. The chosen category is retrieved by getting the head of L in the getCat(C,L) predicate.

main/0: initiates the game by welcoming the user and calling the build_kb and the play predicates.

insert/3: inserts (X,L,L1), inserts X into list L to give L1.

Winning scenario:

1 ?- main.

Welcome to Pro-Wordle!

Please enter a word and its category on separate lines:

|: horse.

|: animals.

Please enter a word and its category on separate lines:

|: panda.

|: animals.

Please enter a word and its category on separate lines:

|: hello.

|: greetings.

Please enter a word and its category on separate lines:

|: banana.

|: fruits.

Please enter a word and its category on separate lines:

|: bison.

|: animals.

Please enter a word and its category on separate lines:

|: hoard.

|: collections.

Please enter a word and its category on separate lines:

|: done.

Done building the words database...

The available categories are:[animals,collections,fruits,greetings]

Choose a category:

|: greetings.

Choose a length:

|: 4.

There are no words of this length

Choose a length:

|: 5.

Game started. You have 6 guesses

Enter a word composed of 5 letters:

|: hey.

Word is not composed of 5 Letters. Try again

Remaining Guesses are 6

Enter a word composed of 5 letters:

|: holaa.

Correct letters are: [h,l,i,o]

Correct letters in correct positions are: [h,l]

Remaining Guesses are 5

Enter a word composed of 5 letters:

|: hello.

You won!

Losing scenario:

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1 ?- main.  
Welcome to Pro-Wordle!  
-----  
Please enter a word and its category on separate lines:  
| : horse.  
| : animals.  
Please enter a word and its category on separate lines:  
| : panda.  
| : animals.  
Please enter a word and its category on separate lines:  
| : hello.  
| : greetings.  
Please enter a word and its category on separate lines:  
| : banana.  
| : fruits.  
Please enter a word and its category on separate lines:  
| : bison.  
| : animals.  
Please enter a word and its category on separate lines:  
| : hoard.  
| : collections.  
Please enter a word and its category on separate lines:  
| : done.  
Done building the words database...  
  
The available categories are:[animals,collections,fruits,greetings]  
Choose a category:  
| : objects.  
This category does not exist.  
Choose a category:  
| : collections.  
Choose a length:  
| : 5.  
Game started. You have 6 guesses  
Enter a word composed of 5 letters:  
| : collect.  
Word is not composed of 5 Letters. Try again  
Remaining Guesses are 6  
Enter a word composed of 5 letters:
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|: marvel.
Word is not composed of 5 Letters. Try again
Remaining Guesses are 6
Enter a word composed of 5 letters:
|: takes.
Correct letters are: [a]
Correct letters in correct positions are: []
Remaining Guesses are 5
Enter a word composed of 5 letters:
|: value.
Correct letters are: [a]
Correct letters in correct positions are: []
Remaining Guesses are 4
Enter a word composed of 5 letters:
|: stops.
Correct letters are: [o]
Correct letters in correct positions are: []
Remaining Guesses are 3
Enter a word composed of 5 letters:
|: hoadr.
Correct letters are: [h,o,a,r,d]
Correct letters in correct positions are: [h,o,a]
Remaining Guesses are 2
Enter a word composed of 5 letters:
|: haord.
Correct letters are: [h,o,a,r,d]
Correct letters in correct positions are: [h,r,d]
Remaining Guesses are 1
Enter a word composed of 5 letters:
|: haord.
You Lost!
true .