

Testing

8cres App

8cres

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Note: We did automatic Unit Testing in Xcode which is under the Repository “8cres” under the directory “8cresTests”

1. CreateAccountViewController

a. isValidEmail()

- i. This function returns true if the user inputs valid format email and false otherwise.

1. We tested by inputting (“test@test.com”) a valid email address which we passed.
2. We also tested with an empty formatted email (“”) and returned false which we passed.
3. We also tested with a badly formatted email (“testtest.com”) that was missing the “@” and returned false which we passed.
4. We also tested with a badly formatted email (“test@testcom”) that was missing the “.” and returned false which we passed.

b. isValidPassword()

- i. This function returns true if the user inputs a valid password.

1. we tested by inputting (“Ab1#\$\$&4”) which is a correctly formatting password which returned true and we passed it.
2. We also tested it by inputting an empty string which returns false and we passed it.
3. We also tested it by inputting a string that is less than six characters long which returns false and we passed it.

2. TestingNewUserViewController

a. isValidFirstName()

- i. This function tests that the user inputs a correct format user first name.

1. To test it we input a string in the format “test” which returns true and we pass it.
2. we also tested it by allowing for space between two words “test test” which returns true and we pass it.
3. we tested with an empty string “” which returns false and we passed.
4. we tested incorrect first name which includes characters only in the format “12!3\$*” which returns false and we passed it.

b. isValidLastName()

- i. This function tests that the user inputs a correct format user last name.

1. To test it we input a string in the format “test” which returns true and we pass it.

2. we also tested it by allowing for space between two words "test test" which returns true and we pass it.
 3. we tested with an empty string "" which returns false and we passed.
 4. we tested the incorrect last name which includes characters only in the format "12!3\$" which returns false and we passed it.
- c. isValidPhoneNumber
 - i. This function tests that the user inputs the correct phone number format.
 1. We tested it with the correct input in the format "111-222-3333" which returns true and we passed it.
 2. We tested wrong input in the format of empty string "" which returns false and it was passed.
 3. We tested a wrong input in the format "111-222-333" which is missing numbers, returns false and we passed it.
 4. we tested a wrong input in the format "111-2223333" which is missing a dash which returns false and we passed it.
 5. We also tested the input format "(111)222-3333" which uses commas and returns false and we passed.
- d. returnEmail()
 - i. which returns the email of the current user.
 1. We tested by comparing the returned email to the email the user used which are the same.
3. NameYourGoalViewController
 - a. isValidHomeGoal()
 - i. This function checks that the user inputs a correct formatted string input.
 1. We tested by inputting correct input in the format "testing" with no spaces which returns true and we passed it.
 2. We Tested by inputting correct input in the format "testing testing testing" with spaces which returns true and we passed
 3. we tested an empty string input in the format "", which returns false and we passed it.
 4. we also tested with wrong input in the format "12321" which is numbers only, returns false and we passed.
4. IncomeViewController
 - a. isValidIncomeInput()
 - i. This function checks that the user inputs the correct income input.
 1. We tested by inputting the correct format "0123456789" which is numbers only and returns true, and we passed.
 2. we tested by inputting a wrong input which is an empty string in the format "" which returns true and we passed.
 3. we also tested with the wrong input using only alphabet strings in the format "Testing" which returns false, and we passed.
5. PriceViewController
 - a. isValidPriceInput()

- i. This function checks that the user inputs the correct price format.
 - 1. We tested by inputting the correct format "0123456789" which is numbers only and returns true, and we passed.
 - 2. we tested by inputting a wrong input which is an empty string in the format "" which returns true and we passed.
 - 3. we also tested with the wrong input using only alphabet strings in the format "Testing" which returns false, and we passed.
- 6. LocationViewController
 - a. isValidLocation()
 - i. This function checks that the user inputs a correct formatted string input.
 - 1. We tested by inputting correct input in the format "testing" with no spaces which returns true and we passed it.
 - 2. We Tested by inputting correct input in the format "testing testing" with spaces which returns true and we passed
 - 3. We tested by inputting the correct input in the format "testing, testing" which has a comma, and it returns true which we passed.
 - 4. We tested an empty string input in the format "", which returns false and we passed it.
 - 5. We also tested with wrong input in the format "0123456789" which is numbers only, returns false and we passed.
 - 6. We also tested with wrong input in the format "Abc0123456789" which is a mixture of numbers and letters, and returned false and we passed.
- 7. HomveViewController
 - a. We tested the labels to check that they are connected by trying to unwrap them.
 - b. We tested that the buttons are connected and have action when clicked on them by calling UIButton actions that check for connection.
 - c. goalReachCheck()
 - i. This function checks whether the downpayment goal has been reached or not.
 - 1. We tested by having an input of "1.00" dollars to go until the goal is reached which is supposed to return false, and it passed.
 - 2. We tested by having an input of "1000.00" dollars to go until the goal is reached which is supposed to return false, and it passed.
 - 3. we tested with an input of "0.00" meaning that the goal has been reached and is supposed to return true, which we passed.
 - 4. we also tested by having a negative input " -1.00" which means that we saved more than we needed which is supposed to return a true, and we passed.
- 8. ProfileViewController
 - a. We tested the labels to check that they are connected by trying to unwrap them.
 - b. We tested that the buttons are connected and have action when clicked on them by calling UIButton actions that check for connection.
- 9. HomveViewController

- a. We tested the labels to check that they are connected by trying to unwrap them.
- b. We tested that the buttons are connected and have action when clicked on them by calling UIButton actions that check for connection.
- c. isOverdraftValidation()
 - i. This function takes a balance as an input and checks to see whether the balance is positive not overdrafted or negative which means overdrafted.
 - 1. We tested with a positive input of "100.00" which means no overdraft, and is supposed to return false, which we passed.
 - 2. we tested with a negative balance of "-100.00" which means that there is overdraft and is supposed to return true, which we passed.
 - 3. we tested with a balance of "0.00" which means that there is no overdraft and returns false, which we passed.
- d. validateTransferIsNotEmpty()
 - i. This function checks that the text input field is not empty when we click the transfer button.
 - 1. we tested with an empty input "" which means that's the textfield is empty which returns true, and we passed.
 - 2. we tested with an input of "0123456789" which means that the textfield is not empty and returns false which we passed.