UNIT TESTS:

Team Member: Kevin Wen
Tested categorization.php, matchmake.php, and messages.php

Module 1: categorization.php
Tested with test personality trait arrays of length 4 with index from 0 to 3.
Equivalence Classes:
Arrays with distinct values at each index:
Test Case = array(1,2,3,4);
Empty array:
Test Case = array();
Array with all zero entries:
Test Case = array(0,0,0,0);
Array with all identical entries:
Test Case = array(4,4,4,4);
Arrays with tied values:
Test Case = array(1,4,4,2);
Arrays with only one nonzero value:
Test Case = array(5,0,0,0);

Module 2: matchmake.php
Tested with dummy user categories and biographical information
Equivalence Classes:
2 Users not in the same personality category:
Test Case: User1{category = Charmander}, User2{category = Bulbasaur}
2 Users not in the same age range:
Test Case: User1{age = 18}, User2{age = 54}
2 Users with mismatched gender and gender preferences:
Test Case: User1{gender = male, gender preference = female}, User2{gender = male, gender preference = female}

2 Users who have the same category, age range, and matching gender/ gender preferences:
Test Case: User1{category = charmander, age 30, gender = male, gender preference = female}, 2 User2{category = charmander, age = 32, gender = female, gender preference = male}

Module 3: messages.php
Tested with dummy usernames, user id, email, and photos
Equivalence Classes:
Logged in User is the Chat Sender:
Test Case: Chat Sender Info = Current Session User info
Chat Recipient is another User in database:
Test Case: Chat Recipient = user2, user2 is in “users” MySQL database
Chat Recipient is not in database:
Test Case: Chat Recipient = user300, user 300 is not in “users” MySQL database
Chat Recipient is considered a match for Logged in User
Test Case: Chat Recipient is initially shown on the match page, clicking Chat should open a new conversation with the Recipient

Team Member: Dennis Nguyen
Tested edit_profile.php
Module 1: edit_profile.php
Image Upload: Tested with a set of files for image upload
Equivalence Classes:
Users without an uploaded image are provided with a default user image.
Files can only be image files
Valid Set: filesExtension = {.jpeg, .jpg, .png, .gif}
Files are limited to a certain size range
Valid Set: Test case fileSize1 > 0, fileSize2 <= 50000

Username: Tested with a set of strings containing a combination of illegal and legal characters.
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric
Invalid Set: Test Case = x such that x contains any special character

Email: Tested with a set of strings containing a combination of illegal and legal characters
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x@y.z such that x is Alphanumeric, y is a valid domain, and z is a valid web extension(?) i.e “.com”, “.org”, “.gov”
Invalid Set: Test Case = x@y.z such that x is not alphanumeric, y is an invalid domain, or z is an invalid web extension

Biography: Tested with strings of varying lengths and characters
Equivalence Classes:
Text input will halt input if string exceeds length of 255 characters.
Empty Set: Test Case = {}
Valid Set: Test case = bioString.length>= 0, bioString.length <= 255

Password and Password Confirmation: Tested with a set of strings containing a combination of illegal and legal characters.
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric, and Password == Password Confirmation
Invalid Set; Test Case = x such that x is not Alphanumeric, or Password != Password Confirmation

Gender and Gender Preference: Values locked to radio inputs with selections possessing defaulted values

Team Member: Anthony Chian
Tested quiz_take.php, quiz_results.php

Module 1: quiz_take.php
Quiz name: Tested with a set of strings of different lengths and combination of characters
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test case = x such that x is Alphanumeric
Invalid Set: Test case = x such that x contains any special characters

Quiz Description: Tested with a set of strings of different lengths and combination of characters
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test case = x such that x is Alphanumeric
Invalid Set: Test case = x such that x contains any special characters

Question: Tested with a set of strings of different lengths and combination of characters
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test case = x such that x is Alphanumeric
Invalid Set: Test case = x such that x contains any special characters

Answers: Tested with a set of strings of different lengths and combination of characters
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test case = x such that x is Alphanumeric and is not equivalent to another answer for the same question
Invalid Set: Test case = x such that x contains any special characters or is equivalent to another answer for the same question

Module 2: quiz_results.php
Quiz Results: Tested with a set of strings of different lengths and combination of characters
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test case = x such that x is Alphanumeric and is not equivalent to another result for the same quiz
Invalid Set: Test case = x such that x contains any special characters or is equivalent to another result for the same quiz

Quiz name: Tested with a set of strings of different lengths and combination of characters
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test case = x such that x is Alphanumeric
Invalid Set: Test case = x such that x contains any special characters

Team Member: Richard Torres
Tested sign_up.php, login.php, create_quiz.php

Module 1: sign_up.php
Username: Tested with a set of strings containing a combination of illegal and legal characters.
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric and length of x >= min_username_length
Invalid Set: Test Case = x such that x contains any special character

Email: Tested with a set of strings containing a combination of illegal and legal characters
Equivalence Classes:

Empty Set: Test Case = {}
Valid Set: Test Case = x@y.z such that x is Alphanumeric, y is a valid domain, and z is a valid web extension(?) i.e “.com”, “.org”, “.gov”
Invalid Set: Test Case = x@y.z such that x is not alphanumeric, y is an invalid domain, or z is an invalid web extension

Password and Password Confirmation: Tested with a set of strings containing a combination of illegal and legal characters.
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric, Password == Password Confirmation, and length of x >= min_password_length
Invalid Set; Test Case = x such that x is not Alphanumeric, or Password != Password Confirmation

Gender and Gender Preference: Values locked to radio inputs with selections possessing defaulted values. It is not possible to have an invalid input for these fields.

Date of Birth: Tested with a set of valid and invalid numeric dates
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = mm-dd-yyyy such that 1<=mm<= 12, 1<=dd<=num_days(mm), and current_year - yyyy >= 18
Invalid Set: Test Case = mm-dd-yyyy such that !(1<=mm<=12), ! (1<=dd<=num_days(mm)), or current_year - yyyy < 18; Input type of the field restricts input of the date to valid dates by default. I.E. input 13-32-2018 → 12-31-2018

Module 2: login.php
Username/Email: Tested with a set of valid and invalid strings.
Equivalence Classes:
Empty Set: Test Case = {}

Valid Set: Test Case = x such that x is Alphanumeric or in a valid email format
Invalid Set: Test Case = x such that x is not Alphanumeric or is not in a valid email format

Password: Tested with a set of valid and invalid strings
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric
Invalid Set: Test Case = x such that x is not Alphanumeric

Module 3: create_quiz.php
Quiz name: Tested with a set of valid and invalid strings
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric with “. , ? ! ‘ “
Invalid Set: Test Case = x such that x is not Alphanumeric with “. , ? ! ‘ “

Description: All input is valid

Question name: Tested with a set of valid and invalid strings
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric with “. ? ! ‘ “ and current question != any previous questions
Invalid Set: Test Case = x such that x is not Alphanumeric with “. ? ! ‘ “ or current question == any previous questions

Answer name: Tested with a set of valid and invalid strings
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric with “. ? ! ‘ “ and current answer != any previous answer of the same question

Invalid Set: Test Case = x such that x is not Alphanumeric with “. ? ! ‘ “ or current answer == any previous answer of the same question
Answer Trait: Tested with any combination of predefined traits
Equivalence Classes:
Duplicate Trait assignments: within the same question
Unique Trait assignments: within the same question

Results: Tested with a set of valid and invalid strings
Equivalence Classes:
Empty Set: Test Case = {}
Valid Set: Test Case = x such that x is Alphanumeric and current result != any previous results
Invalid Set: Test Case = x such that x is not Alphanumeric or current result == any previous results