<div align="center">**TESTING MODELS AND METHODS**</div>

The two main types of testing used on our application are: Black and White Box testing. Both testing methods were conducted to analyze the system's capability of working to an acceptable value and to result in low-risk software.

1. Black Box Testing

LOGIN

Test Case 1: Checking if username password is correct.

Username	Password	Expected Output	Result (is log==oracle)
abhinaya.kms@gmail.com	Thisisatest.	Authentication Failed	Passed
abhinayakms	Thisisatest123.	Authentication Failed	Passed
No entry	Thisisatest123.	Please enter username	Passed
malavika.u18@gmail.com	No entry	Please enter password	Passed
malavika.u18@gmail.com	trailX.1	Login Successful	Passed

Test Case 2: Forgot Password

Username (Email)	Expected output	Result (is log==oracle)
abhinaya.kms@gmail.com	Password reset email sent	Passed
abhinayakms	Authentication Failed	Passed
No entry	Please enter username	Passed

REGISTER

Test Case 1: Setting New Username

Test Input- New Username	Expected output	Result (is log==oracle)
abhi	Enter valid data	Passed
abhinayakms$	Enter valid data	Passed
abhinaya.kms	Enter valid data	Passed
abhinaya.kms@gmail.com	Username set!	Passed

Test Case 2: Setting New Password

Test Input- New Password	Expected output	Result (is log==oracle)
123	Enter valid data	Passed
trailx	Enter valid data	Passed

trailX	Enter valid data	Passed
trailX1	Enter valid data	Passed
trailX1!	Enter valid data	Passed
trailX.1	Successful!	Passed

Discover New Trails - Distance by trails

Test Case 1: Distance should be less 10

Test Input- Distance in km (x)	Expected Output	Result (is log==oracle)
-1 (x<0)	No Trails Found	Passed
0.5 (0<x<1)	Trail Found!	Passed
3 (2<x<5)	Trail Found!	Passed
8 (6<x<10)	Trail Found!	Passed
45 (x>10)	No Trails Found	Passed

Settings

Test Case 1: All edit details.

Full Name	Age	Gender	Email	Height (cm)	Weight (kg)	Password	Result (is log==oracle)
A@hinaya $rini<as^n	34	Female	abhinaya.kms@gmail.com	179	72	Thisisatest123.	Passed
Abhinaya Srinivasan	1	Female	abhinaya.kms@gmail.com	179	72	Thisisatest123.	Passed
Abhinaya Srinivasan	34	*No radio button is chosen*	abhinaya.kms@gmail.com	179	72	Thisisatest123.	Passed
Abhinaya Srinivasan	34	Female	what.gmail	179	72	Thisisatest123.	Passed
Abhinaya Srinivasan	34	Female	abhinaya.kms@gmail.com	10	72	Thisisatest123.	Passed
Abhinaya Srinivasan	34	Female	abhinaya.kms@gmail.com	179	10	Thisisatest123.	Passed
Abhinaya Srinivasan	34	Female	abhinaya.kms@gmail.com	179	72	No.	Passed
Valid	Valid	Valid	Valid	Valid	Valid	Valid	Passed

2. White Box Testing

The following is a control flow graph that depicts all possible paths of flow for the app. All paths have been tested during black box testing and other preliminary and post development testing processes.