

## TEST REPORT

**Team:** Backend

### TESTING

The testing script as well as the test cases are present in tests.py which is present in the following directory:

`DjangoProject/users/backend_test/tests.py`

### Testing Results:

After running the necessary commands to run the testing script consisting of above tests which contained several test cases each, such as Unit Testing for Signup, Integration Testing for Login & Signup, following is the result of the testing script.

```
C:\Users\Amrut Biju\Desktop\mini-project\miniproject-cs305autumn2020\DjangoProject>python manage.py test users/backend_test
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
...
-----
Ran 3 tests in 0.814s

OK
Destroying test database for alias 'default'...
```

## Tests conducted:

### 1. Signup form (unit testing)

- The test is done for the signup form.
- Aim of this test is to find potential bugs in between the form and model layer.
- The test is done for the signup page, where we take different combinations of username, Email, Password1, Password2 and check the possible errors.
- Example:

Following is the test case where Email is left blank:

```
username': "abcdef",  
'email': "",  
'password1': "Abc@abcd",  
'password2': "Abc@abcd"
```

### 2. Signup view (Integration testing)

- Here, the test is done for the signup page, where we simulate different combinations of username, Email, Password1, Password2 and check the possible errors.
- Aim of this test is to find potential bugs in between the view and form layer.
- Since view is more accessible by other developing teams, so this test is an Integration test.
- Example:

Following is the test case where passwords don't match:

```
'username': "abcdef",  
'email': "abc@gmail.com",  
'password1': "Abc@ab",  
'password2': "pass"
```

### 3. Testing for login view(integration)

- Here, the test is done for the login page, where we simulate different combinations of username and password and check the possible errors.
- Aim of this test is to find potential bugs in between the view and form layer.
- Since view is more accessible by other developing teams, so this test is an Integration test.
- Example:
- Following is the test case where password is left blank:

```
'username': "JohnBravo",  
'password': ""
```