

TEST SUITE

for

Medical Shop Automation (MSA)

Version 1.0

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1 Unit Testing

We followed the following steps for Unit Testing of the software:

- Proper checking of specification and requirements of the software.
- Proper inputs for all type of possible errors are designed.
- For each input, the expected output is given.
- After the implementation would be completed, the expected output would be compared with the actual output.

We test functions of different classes separately as shown below,

1.1 User

The functionalities tested for the class user are as follows:

1.1.1 User CRUD Operations

Input	Expected Output
Create user with all valid details and save	All the details of the user (except password as it is encrypted) as entered while creation
Create user without details	Failure response
Create user with same email as already used	Failure response
Create user with short password (below 8 characters)	Failure response
Update user details and GET user details for a user	Shall return updated values
Delete user and try to GET user	Failure response

1.1.2 register()

Input	Expected Output
Register with existing email	Should return "user exists" error
Register as a valid user with valid password and GET the user	Should return the details (except password) of user used to Register
Register with invalid password (less than 8 characters)	Should return "invalid password" error

1.1.3 login()

Input	Expected Output
Login as user that exists	Should return success response and redirect user to home page.
Login as user that doesn't exist	Failure response
Login with wrong password	Failure response

1.1.4 change_password()

Input	Expected Output
Invalid user email id	Failure response
Valid user email id	Redirect to next page for writing the existing password
Invalid existing password	Failure response
Valid existing password	Redirect to next page for writing the new password
Invalid new password	Failure response
Valid new password	Prompts success message

1.2 medicine

The functionalities tested for the class user are as follows:

1.2.1 medicine CRUD Operations

Input	Expected Output
Create medicine with all details and save	All the details of the medicine (including code number) as entered while creation
Create medicine without details	Failure response
Update details and GET details for a medicine	Return updated values
Try to get a deleted medicine	Failure response

1.2.2 generate_code()

Input	Expected Output
Click of generate code button	An integral number which is not the code number of any other previously stored medicine

1.2.3 give_details()

Input	Expected Output
Invalid medicine code number entered	Failure response
Valid medicine code number entered	All relevant details of the medicine having that code number

1.3 supply

1.3.1 supply CRUD Operations

Input	Expected Output
Invalid code number	Failure response
Valid code number	Allows you to enter other details
Invalid expiry date	Warning prompt

1.3.2 find_newmed()

Input	Expected Output
Click of newmed button	Redirects to a page where the user is asked to enter all details of the medicine. Also, a code number is generated after he presses the generate code button.

1.3.3 print_cheque()

Input	Expected Output
Click of Print Cheque button	A pdf document should open in new tab of the browser containing relevant details of the supply and it should also contain the total amount that the user must pay to the vendor for that supply.

1.4 Order

1.4.1 order CRUD Operations

Input	Expected Output
Ordered medicine unavailable	Failure response
The ordered quantity of certain medicine is more than the quantity of that medicine available in the shop	Failure response

1.4.2 print_cash_receipt()

Input	Expected Output
Click of Print Cash Receipt button	A pdf document should open in new tab of the browser containing relevant details of the order including the total amount that the customer must pay for his order.