

Navigate to [www.shipt.com](http://www.shipt.com). Choose a feature of the site and write a description or test case to describe how to test the feature.

1. The feature which is used to test for question 1 and also for automation question is that Sign up feature in the Home page **[www.shipt.com](http://www.shipt.com)**

The signup feature test cases:

1. The sign up feature should navigate to the correct page like Sign Up for the new user
2. The Email validation should work properly
3. The Zip code Validation should work properly
4. The zip code should only be validated as a correct input for the areas with the Shipt availability
5. If it is already existing id it should be navigated for the Log IN Feature page
6. The promo code should work for valid inputs

Automation code will work for Test Cases 1 to 4

2. The feature with bad workflow is also the Sign up or Get Started Page

1. The main behaviour is that after clicking on the page it goes to the Sign up or new user registration to get the basic details and move forward with Plan Selection and finishing up the sign up process.
2. The main issue is that there is no information about the areas in which this Shipt Home Delivery is available or not available. As a end user, this information is really needed for the registration
3. The customer needed to know the product availability and can register properly. For that reason it better to have that information. Also, we can add a additional fields like selecting the state in the Homepage and if that state is available only we can navigate into registration page
4. The Issue can be reported through any tools like Jira.
  1. The issue should have proper title which describes the issue or Change Request in this particular case
  2. Description or steps to reproduce with environments details
  3. If its browser specific issue, then add that details also
  4. Add any screenshots or screen recordings for better understanding
  5. Give some information about the expected results and actual result
5. The priority would be 3 and the reason is that this is not issue or CR which is needed to be addressed urgently, but it is better to fix bad workflow if possible in forthcoming sprints to get good reviews from the customers.

3. The possible reasons for the issues are listed below:

1. The first reason would be the way the input phone number is stored in the database. The developer needs to check if each the phone number is changed the user tables updates the values or just it shows in UI. Also, we need to check how the phone number is correlated with the username.
2. The possible second reason would be due to session id the phone number is stored in that and page refresh is still displaying the old phone number.
3. The third reason can be the developer would have written the code in such way that only one time you can update the phone number.
4. The fourth reason can be trying to find out other possible external factors by testing in multiple systems, web browsers or running automation in multiple to try to reproduce the issue to narrow down on that issue

**One possible way or workaround is contact the support team with a query to update the phone number if its a immediate requirement.**

**Queries are written based in MySQL**

**1. Stores allowed to sell alcohol:**

```
select * from interview.stores where allowed_alcohol=true;
```

**2. Product name of two most expensive items based on their price at store id 1.**

```
select name from products a
join (
    select product_id, price
    from store_prices
    where store_id = 1
    order by price desc
    limit 2) b
on a.id = b.product_id
```

**3. List the products that re not sold in the store id 2**

```
select name from interview.products where id not in (
select product_id from interview.store_prices where store_id = 2);
```

**4. Most Popular item sold (The item that is sold in larger quantity is considered as the most popular item sold)**

```
select name from products where id in (
```

```

select product_id from (
    select product_id, sum(qty) as total
    from order_lines
    group by product_id
) A
where A.total in (
    select max(B.total) from (
        select product_id, sum(qty) as total
        from order_lines
        group by product_id
    ) B
)
)

```

#### 5. SQL statement to update the line\_total field

```

update order_lines a
join store_prices b
on a.store_id = b.store_id
and a.product_id = b.product_id
set line_total = price * qty;

```

The Automation code is in separate .js files in the github

1. I have chose selenium with Javascript.
2. The findElement is used to find elements on a webpage and locators used are linkText, ID and by ClassName
3. Improper coding standards, Poor test isolation, depending on flaky external services, Lesser Timeouts and Timeouts too long, css files or xpath might be different if the UI is changed, Web browser or Javascript or Ajax issues, iframes issues,etc
4. Use proper timeout, avoiding using Xpath for continuously changing UI, proper knowledge of the when to use assert and verify, Use Data-Driven Testing, use Wait instead of Thread.sleep(). One of the best ways to debug is to re-run the code few times to check if the error or automation is failing continuously.Also, try to use different test practices and proper commenting to understand the flow of the code.