**POPUPSMART TASKS**

● Write an e2e test to test login with username & password flow for our application using

Cypress. You can send the test file or push to a public github repository.

- I did it and pushed all the project in [my github repo](https://github.com/nhlmk). But, I am not familiar with Cypress that much. So I did it with my own framework. But I think I can learn it and do it if it is needed.

● Write a sample bug report.

- I usually create bug report and related ticket from Jira X-Ray. First I write summary of the bug report. Let's say in the calendar functionality, user can not add more than one event in a same day. And for environment part, I put the URL where I get the bug from with the QA environment included. I decide for the bug severity. Apparently, I can use the application if this bug remains. But, it needs to be handled as soon as possible. So, I declare the medium level for severity. Priority part will be decided by developers and PO later on. And I link it to related User Story. As description, I write bug reproduce steps, data that I used while I get this bug and result like this; ```

1. User is on the homepage of the calendar application.
2. User clicks three dot menu from a day's top right corner.
3. From the dropdown menu, user clicks create new event link.
4. User enters an event name.
5. User clicks create button.
6. User goes to the homepage of calendar application again.
7. User sees the event that just created.
8. User clicks three dot menu from a random day's top right corner.
9. From the dropdown menu, user clicks create new event link.
10. User enters an event name.
11. User clicks create button.
12. User goes to the homepage of calendar application again.

Expected Result: User should be supposed to see two different events.

Actual Result: User sees only first event created.

Data: 1 - Pre condition credentials as login page.

2 - Dates and months that I used and get this bug.

3 - Names of the events while I entered creating it.

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● How would you build the test architecture for Popupsmart? Please explain in detail.

- I will do the testing in QA environment and pre-production environment. First I do the UI testing. I will use Selenium WebDriver for this purpose. I create different user stories related to different business goals while creating a pop-up. I also add my user stories all the steps related to Layers, Customize, Target and Publish menu. I will also test for the premium accounts and their features.

I regularly push all my codes to Github. I create a Jenkins job related to this Github project, so that I can see clearly everything is on the track with the Smoke test. And once developers will add any new feature into this project, we can build a regression suit as a Jenkins job. After I done with QA environment, we will work on pre-production environment.

In this pre-production environment, we will focus more on the major regression features when a new version of application released. Then, we will have production environment and in this environment, end user will test the application. Regularly we will check each code and we do not want any tiny feature get broken.

● What kind of testing process should be applied for the bugs reported by the customer

success team? How should it be communicated with the development team?

- If a team other than development team will report a bug, we will check for a bug if it is a real bug or one time issue. If the bug consists, we will take screenshot or screencast. Then we will create a bug report. The developers will check for the report and act according to that.

● Have you written a unit test before? Can you tell us about the frameworks you use?

- It is part of the white box testing. It usually done by the developers before they deploy the code from Development environment to QA environment. Since it is performed by developers, I have never done unit testing yet. But I think I can learn it and do it if it is needed.

In my framework, I use some patterns and tools to create my framework. I follow the Behavior Driven Development approach. Because in that time, I can easily communicate with all my team members. I use Cucumber and Gherkin while creating my framework. POM design pattern helps me to organize my packages and project in very clear way. For example, as you can see from my github task, I have pages package, runners package, step definitions package and utilities package separately. It makes my project really easy to maintain. If I encounter with a problem, I can quickly fix it. It improves reusability of my codes. Which means, I can use same pattern with another test case.