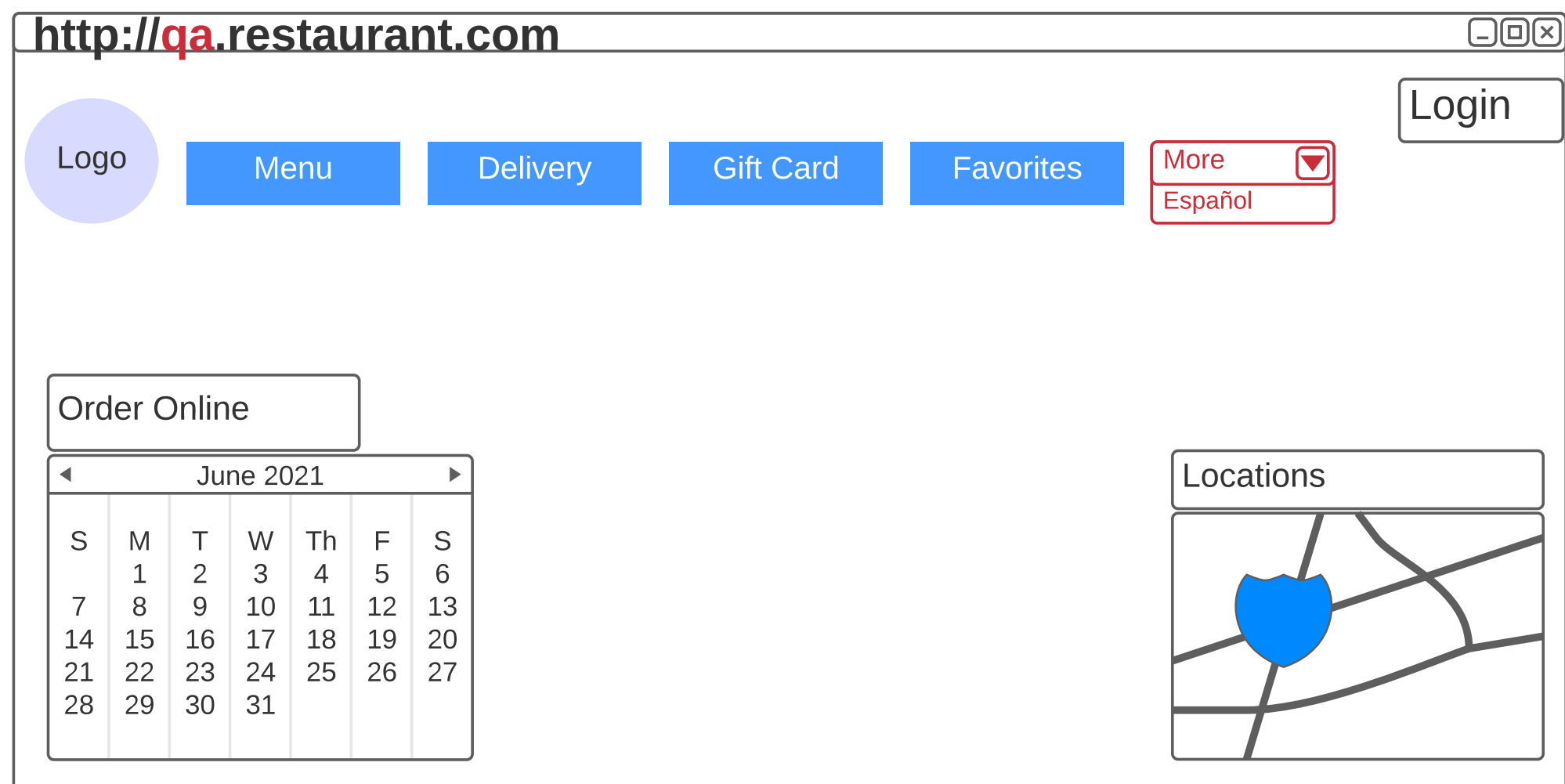


Regression Testing



New feature/functionalities are added to the app.

Testers test the new feature -> UI, Database, and API all layers are tested. More scenarios and codes are added to Github.

Before the new feature deploying from QA environment to Staging environment , one last testing should be performed -> Regression testing.

Test all the old features with the new feature together!

What is Regression Testing ?

- Regression testing **confirms** that software **previously** developed **features** are still **working well with the new added feature**.
- The **main goal** is to **make sure** that a **product functions as expected after any changes** made to the application.
- Regression testing is preformed when:
 - New requirements are added - delete, update, add, etc
 - New features are added
 - A previous defect or bug is fixed
 - Performance issues are fixed

Do you perform Regression test automatically or manually?

- Regression testing is **performed both** manually and automatically.
- All the scenarios that have test script (code) are automated. And there are some functionalities are not automated so they are manually tested.

How often do you perform Regression test?

Ideally, regression testing is performed before software deploy from QA environment to Staging environment. and in staging env UAT is performed, then application will be released.

However, now days it depends. There is no fixed answer. Regression testing might performed once a week, everyday, once every 3 months, etc.

In the interview, you should provide one answer. (Cybertek Alumni mentors, experience share session will help you to build a story for regression)

e.g: in my team, we run regression every 3 months.

How many scenario do you have in your Regression test?

Answers can be between 500 scenario - 3000 scenarios.

e.g: in our regression test, we have around 700 scenarios.

How long does it take to run Regression test?

It depends on a lot of technical knowledge and tools to answer this question.

e.g: I have 700 scenarios to run in regression test, it takes 3 hours to run the automated scenarios, and 1 week(5 days) to test the manual scenarios.

How do you run your Regression test?

- we run regression every 3 months.
- I have around **750 scenarios** in my regression test suite.
- The automated scenarios run with 2 virtual machines in parallel. It is scheduled in Jenkins by DevOps team. Results can be viewed in Jenkins app.
- The non-automated scenarios are manually executed by all the testers which takes a week of time.



Jenkins

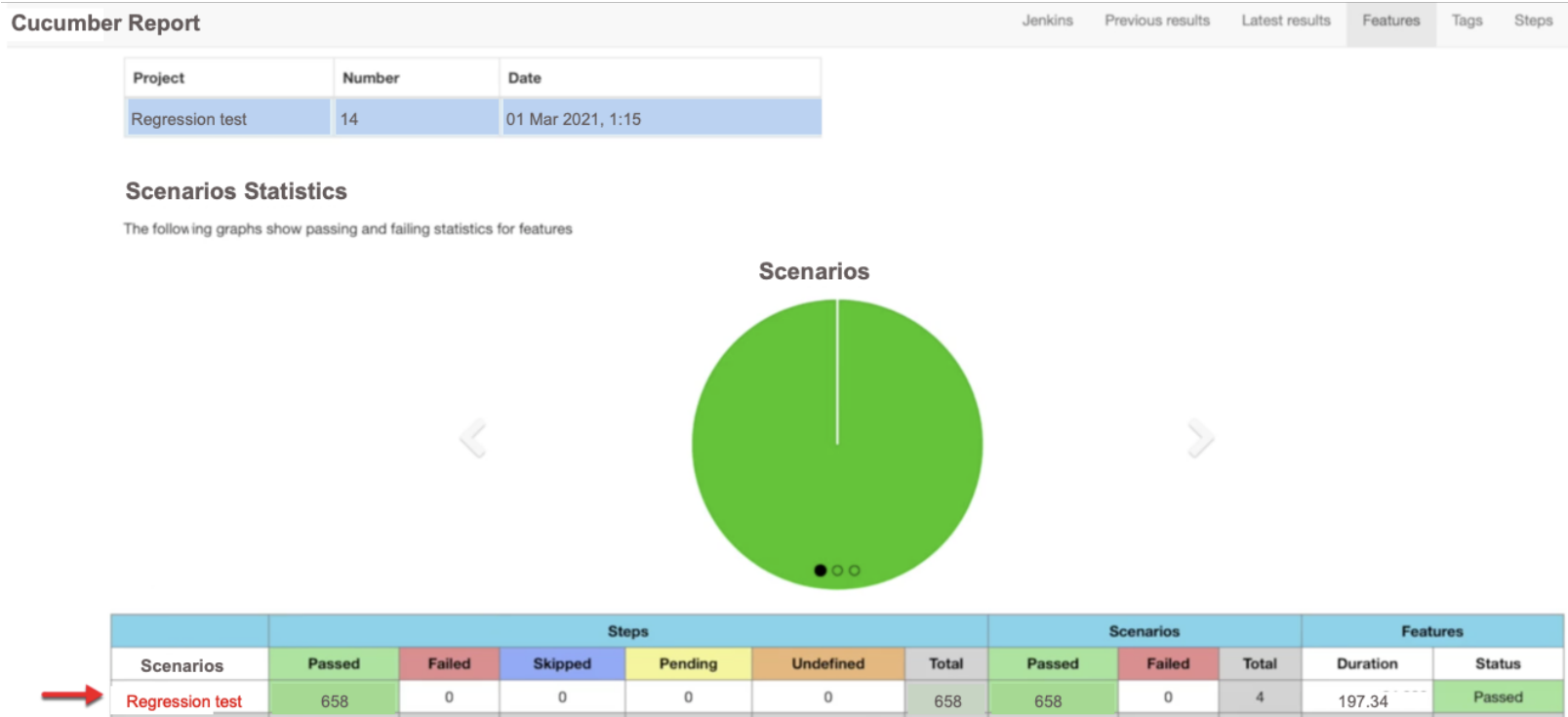
Project name: Regression Test
Code URL: www.GitHub.com.companyname/projectname
Goal : scr
Time : Devops writ the time
Report type: Cucumber Report
Send-to:
tester1@companyName.com
tester2@companyName.com
tester3@companyName.com

Can be added developers' emails:
developer1@companyName.com
developer2@companyName.com
developer3@companyName.com

Regression result is sent to besinues team members as well

DevOps team creates jobs on the Jenkins tool. The above is one job for Jenkins to run **Regression** scenarios from github.
The smoke test job detail is:

- code location / url
- Time to run smoke test
- report type
- option to see the test result



Regression test result -> Cucumber report sample

- Jenkins sends test result with colorful detail report.
- **the report includes:**
 - Total scenario numbers
 - Pass / fail / skip / pending status
 - Time duration
 - Frequency / repeated time number
 - Test executed data and time