

Test 1 Solution:-

1. Imagine the following situation. You need to establish a QA process in a cross-functional team. The team builds a front-end application using REST APIs.

1. Where would you start? What would be your first steps?
2. Which process would you establish around testing new functionality? How would you want the features to be tested?
3. Which tools would you suggest using to help your team with a daily work?
4. If you would do a test automation which techniques or best practices would you use the application?

Please, provide your solution in a git repository of your choice if possible or as a PDF document

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Assumptions:

The Team is working in an agile environment.

the steps and processes given below are for a sprint level testing and not for a system level testing activity.

---Solution:

1.
 1. Make sure there is at least 1 QA Engineer embedded inside the team.
 2. Establish test case and defect creation guidelines and a defect life cycle.
 3. Make sure the QA Engineer is part of all the team activities like stand up, story grooming, sprint planning etc.
 4. QA effort should be included while calculating the overall effort for a user story.
2.
 1. The Test cases should cover all the acceptance criterias, positive & negative scenarios, boundary value scenarios.
 2. High level regression should be done for all the existing functionalities that the new functionality is interacting with.
 3. have performance test scripts if applicable.
3.
 1. Chrome browser with the developer tools for manual UI testing.
 2. Postman for Rest API testing.
 3. shell scripting and xterm2(mac) or putty(windows) for viewing and capturing logs.
4.
 1. RestAssured framework for API automation. its an open source, java based framework to automate Rest API Tests.
integrate with jenkins to enable automated test execution during CI/CD process.
 2. Selenium with Page Object Model framework for UI automation.

3. select the scripts that gives the most ROI for automation.