1. Tell me about yourself

2. What are you looking for in the next role?

3. Do you create test cases yourself or somebody gives you?

I have created my own test cases against the requirements. But I have executed other’s test cases too in one of the projects. My test cases have been executed by other team members too. Usually, in our team we shuffle the execution of regression testing among the QA team.

4. How big is the team that you are working with right now?

It is a team of 6 – 7 members which includes a scrum master, product owner / business analyst, 3 developers and 3 QA.

5. What do you know about our company?

6. How big is the company you are working now?

It is a company where there are about 50 employees and couple of projects going on.

7. What questions do you have for me?

What will be the typical day of QA in your project and what is the project about and the processes involved in the project. Is it started from scratch / enhancement project?

8. I’m not familiar with X-ray plugin. Can you tell me about X-ray?

Xray plug in which I used in JIRA enables me to log all the test cases (tests) with all the steps and expected and actual results. It keeps track of whether I have executed all the tests / status etc. Once the story is assigned, tcs are prepared and logged under stories including precondition, test plan and test set. So when preparing metrics at the end of sprint, it is easy to find data how many executed, how many passed and what is the pass rate etc. whether we can deliver at the end of sprint etc etc

9. Tell me about the experience with web testing.

The project I am working currently on is a web application project. This is a portal developed for teachers and students. In this project I am responsible for the testing of API testing, backend testing and UI testing. In API testing, the functionality of the application is tested using the request and response. We used postman for sending response according to the documentation provided and verify data for all the CRUD operations.

10. Do you have any experience with Accessibility testing?

Accessibility testing is done to make the product / project accessible to all users (including users with disability). Using ADA compliance, I used to check whether all menu / button / form elements are accessible, in correct width and size and with correct image clarity, color. All the images with alt text, to enable the user for voice command.

11. Tell me a little about backend testing you’ve done

API testing and database testing

12. Tell me about the process, how does the environment work starting from developing, head over to you, and to production

Dev env, QA env, Staging, preprod, prod

13. What do you like about working as a QA?

1. involvement all phases

2. learn new tools and tech

3. know about the whole system

4. testing is independent of languages

14. **Tell me about the way you worked with a product team in your last role**

**15. Do you work more with product manager or mostly with IT team?**

16. What kind of timeline have you worked on in the past from when you are given something to test and till when it gets launched out to production?

Worked in agile sprints, almost 90% of the time, it was delivered in time

17. Do you have experience in working with a small team?

yes

18. Why do you want a transition to our company? Why can you be a good fit to work here?

19. How do you interact with your team when you need help & support?

20. How do you prioritize when you have a lot of work to do?

1. I organize my work in the order of priority what needs to be done

2. I make a plan how I can use my time smartly

3. I execute the test cases, If there are lot of work, I inform the

21. How do you go about gathering information from multiple sources?

1. documents

2. KT from whom we can get info by meeting them at lunch and coffee

3. Exploratory testing

4. Old bugs if raised already

22. What is a difficult problem you’ve solved in the past and how did you do it?

23. How do you see yourself in the future?

24. How do you run Regression Testing? How long does it take to run Regression? Do you run all the test cases you have for Regression or not? If not, how do you choose test cases for Regression?

25. When the product is on production already and QA team missed a bug, what are your actions?

26. Does the development team have exception reporting system?

27. Tell me about your experience with Git.

28. Talk to me about different types of testing.

29. How do you measure how successful or unsuccessful your testing is?

30. I was asked to test a page with Create Event function, then to write a bug report for 1 of the bugs I found

31. Why do you like QA?

32. What language did you use for Automation?

33. What tools do you use during testing?

34. Can you tell me about your experience with SQL?

35. How did you use Android Studio and XCode?

36. How comfortable are you with command line?

37. Do you have any experience with AWS, any of the cloud computing providers like Google cloud, Azure, Oracle

38. Could you describe for me error that would be caused by a race condition?

A race condition occurs when two or more threads can access shared data and they try to change it at the same time. May be deadlock condition or the value may be different for each and subsequent operations will be having different data.

There are the following two solutions to avoid race conditions.

Mutual exclusion

Synchronize the process

In order to prevent the race conditions, one should ensure that only one process can access the shared data at a time. It is the main reason why we need to synchronize the processes.

Another solution to avoid race condition is mutual exclusion. In mutual exclusion, if a thread is using a shared variable or thread, another thread will exclude itself from doing the same thing.

39. Situation: A user reports an error. 1 person sees and can reproduce the error, the other one tried to reproduce but everything works fine. How would you deal with this error report from the user and how would you recommend that Customer Success Team tells the user what is the outcome? Should the user change something or we should change something?

What is test Plan?

It is the high-level document prepared by QA which includes testing strategies, resource, scope and estimated time.

What is test case?

It is the low-level document prepared by QA which contains step by step conditions to check whether the software works as expected / as per the requirements / the way the customer expects it to work.

Write test cases for required ZIP code field on a WEB form

1. If entered, it should follow the validations like it should be numeric value
2. Check for the length
3. Check for the validity of the Zip code (say 00000 is not a valid one)
4. No special characters are allowed
5. Check with 4 digits
6. Check with 6 digits

What is regression testing?

Regression testing is done when change in code does not the functionality of the application / no impact.

What is the most frequently executed type of testing?

Smoke and regression testing

What makes Software testing profession attractive to you? Why QA?

1. QA makes sure the quality product is delivered and is working as per the requirements. QA can be involved in all phases of SDLC. As we want our products to be in good quality, I want my customer to have good quality software. To ensure that I need to be a QA to provide that.
2. QA is not limited to any language or tools. So, If I am in QA, I can learn lots of new tools and technologies and this will make me grow as person and as well as my quick learning skills will help me adapt to any situation
3. Since I was a developer before, I understand the role of QA and can test from user point of view which brings many challenges and I want to be in the challenging environment which pushes me to learn more and more.

Why software testers are needed if developers test their code anyway?

1. Developers can test the code according to the specification. But QA knows end to end functionality of the product or project as they are involved. Also, QA are creative and thinks as a end user and test the application.

1.Tell me about yourself

2.What you did in your last project?

3.Tell me about the company from your resume?

4.What do you know about our company?

5.Why you will be a good fit for this role?

6.Why are you looking for a job? / Or why are you on the market now

7.How will you prioritize your task?

8.When you will stop testing?

9.How will you know you have enough test coverage?

10.When you will start testing?

11.How do you know what needs to be tested?

12.You have to test a new feature, but you don’t have documentation. How will you test it?

13.How do you know you have enough requirements?

14.You found a bug and reported it, developer said there is not a bug. What are your actions?

15. How looks a good test case?

16. What are the sources for writing test cases?

17.How you run smoke testing?

18.How you run regression testing?

19.Where you keep Test cases?

20.What tools do you use for testing?

21.What is for you a great work environment?

22.Are you familiar with automation testing?

23.What is Relative Xpath and Absolute Xpath?

24.What type of selectors do you know?

25. You mention that you did API testing? Tell me about it.

26.What methods I know and status code?

27.How often did you use SQL? Rate your knowledge from 1 to 10?

28.What do you see yourself in 3-5 years?

29.Tell me the situation when you receive feedback from your team?

30.Tell me the situation when you identified a problem and solve it?

31.What challenges are you faced by working remotely?

32.What is the accomplishment which you are proud of?

33.What is a good bug report?

34.What is your weakness?

35.Tell me something that I will remember you.

36.What questions do you have to me?

Technical Round - Testing/ SDLC processes.

1.Tell about yourself

2. What is the current project your working on

3.What would you be after 3 to 5 years

4. Testing process

5. Explain Waterfall model/ agile scrum methodology

6. Are you interested to work using Waterfall model

7. What is the critical bug that you found

8. Tools that you used

9. How do you create a test case in Jira

10. Understanding of Selenium

11. How did you learn Selenium Cucumber

12.Do you know Jql in Jira

13. What are the other projects that you worked on?

Manager round

14. Why should we hire you?

15. Did you ever supervise in absence of team members/ all by yourself

16. Did you take any decisions in critical situations

17 what is the size of the team

18. Can you work in different time zones

19. Why did you choose QA?

20. Do you have any questions?

Why testers are needed / if software goes to customers with lots of unfixed bugs?

What is test Plan?

**DEFINITION:** Document that describes the objectives, scope, approach / strategy, resources, estimated time line and focus of a software testing effort

* the highest level Software testing document possible
* does not include test case
* developed by QA team with other team possibly contributing (everybody is involved at some level)

What is test case?

**DEFINITION:** Set of conditions and/or variables under which a tester will determine if a requirement upon an application is satisfied

* test case is 100% derived from requirement
* might fail or pass in just one place
* the smallest possible action in software testing
* the group of test cases is called "test suite"
* the lowest possible level document in software testing

**Guidelines for writing test cases**  
1. There is a difference between 2 questions:  
- Write test cases for...  
- How would you test...  
  
2. First test case - single most important test (happy path)  
3. Prioritizing test cases  
4. Level of detail. Same test case should be executed in exact same way by each and every tester. Use Test Data.  
5. Start with requirements  
- test cases MUST match the requirements  
- minimal possible change  
  
**Writing test cases would normally involve the following:**  
- Requirements (assumptions of requirements)  
- Preconditions (prerequisites)  
- Test data  
NOTICE: The application is supposed to be in testable condition: avoid test cases such as "button is clickable", "text field accepts input", "check box could be checked"

Write test cases for required ZIP code field on a WEB form

REQUIREMENTS (assumptions we make for interview question)  
1. The field is required  
2. Accepts 5 characters  
3. Accepts digits only  
4. Input could be either typed in OR pasted  
5. More than 5 characters will not be accepted by the field - no error message  
6. 1-4 characters - error message with 5 digits reminder  
7. Non-existing 5 digits ZIP results in error message ("non-existing...")  
  
**TEST CASES:**  
1. Existing -5 digits 94040 accepted  
2. Non-digits/letter 9404O error message (digits only)  
3. Non-digit/Sp. Char. 9404@ error message (digits only)  
4. Empty field input nothing "required field" message  
5. Less than 5 digits 9404 5 digits reminder message  
6. Type More than 5 digits 940405 94040 accepted  
7. Paste more than 5 digits 940405 94040 accepted  
8. Non-existing 5-digit 00001 "non-existing..." message

What is regression testing?

**DEFINITION:** Regression Testing is a type of testing that is done to verify that a code change in the software does not impact the existing functionality of the product.

This is to ensure that the product works fine with new functionality, bug fixes or any changes to the existing feature. Previously executed test cases are re-executed in order to verify the impact of the change.

should be done for each new release (build)

* we do not have enough time to retest software completely. Risk analysis is involved when we decide on which parts should be tested (partial retesting)
* second (to release acceptance) most frequently executed test
* very good candidate for automation

We can include

* Test cases for Regression testing where there are recent code changes or functional changes
* Test cases based on priorities for Regression testing
* Test cases for Regression testing based on criticality and impact of bug fixes
* Test cases for automated Regression testing

What is the most frequently executed type of testing?

- release/build acceptance (each & every build) aka smoke testing   
- next one is regression

What makes Software testing profession attractive to you? Why QA?

* 1. My passion to know about the applications, how the software works end to end, curiosity and responsibility in delivering good quality product made me choose QA.
  2. Testing/QA is not limited to any technology and you get to learn new things constantly. You can work in multiple technologies. I would like to learn and work in multiple technologies so that I can grow as well as the company.
  3. It is challenging. QA is not easy. There are puzzles and problems to solve constantly. My ability to learn faster and finding root causes for the problems made me to become SQA. Moreover, I love to test and deliver a quality product.

- I have many friends who moved to Software QA and they suggested me to look at that field  
- I did the research and it looked like something worth exploring  
- I enrolled into QA Training and every day it was giving more confidence  
- I am absolutely committed to becoming someone who makes the difference in software testing  
- That position to me is like a launching pad - you can count 100% on my commitment and hard work

Why software testers are needed if developers test their code anyway?

- testers do most of the negative testing  
- testers do most of the regression testing  
- testers test software application at system level (user perspective)

So many bugs / defects can be identified. Testers test with respect to what the system is supposed to do. But developers test how the system is supposed to work.

How would you test a toaster

We ask for requirements first (expected answer = whatever you think is OK)  
We start with positive testing, not with breaking the toaster (negative testing)  
  
**Functionality Testing**Start with requirements:  
- works out of 110Volt power line (indicated by green LED light)- 4 levels of heat are available  
- Level 1-5 minutes toasted  
- Level 2-4 minutes toasted  
- Level 3-3 minutes toasted  
- Level 4-1 minutes toasted  
- 2 slots are available  
- Left slot could be used as a standalone slot  
- Right slot could be used as a standalone slot  
  
Then we do **test cases**(preferably one test case for one requirement)  
1. 110V supply Plug into 110V plug green LED light is ON  
2. 4 levels of heat Turn and count 4 positions are there  
3. Level 1 heat Set level 1 and toast takes 5 minutes  
4. Level 2 heat Set Level 2 and toast takes 4 minutes  
5.  
6.  
7. 2 slots toasting Toast 2 slices at a time toasted normally  
8. Left slot toasting Toast one slice in a left slot toasted normally  
9. Right slot toasting Toast one slice in a right slot toasted normally  
  
Then we move to non-functional requirements:  
- Environmental (moisture, temperature, evaporation of chemicals, decoloration, etc.)  
- Transportation (vibration, cargo, packaging)  
- Safety  
- Supporting documentation

What is ad hoc testing?

Simplified form of Exploratory Testing where test Planning+Executing+Learning are happening at the same time

* "random" or "non-systematic" functionality testing
* it is not "Monkey Testing" because there are elements of planning and learning
* it helps to find numerous bugs due to rare combinations of user actions
* main purpose is learning about the application, not breaking it down

Explain Performance Testing?

**DEFINITION:**  
Testing performed to determine how a system performs in terms of responsiveness and stability under a particular workload

* looking for system to slow down under specified load
* not limited to any part of the system (we look at the entire system performance)
* load could measured in Number\_of\_transactions OR Number\_of\_users
* the load is taken within the normal usage limits
* the length of performing under the load might be important

Define Black Box testing?

**DEFINITION:**  
Testing done from user perspective (no access to source code used)  
  
**DETAILS:**

* Not about WHO does it, but its is about HOW it is done
* Bugs are identified and reported from user perspective
* Could be manual or automated (still black box)

Write functionality (not GUI) test cases for "Find" text box in Notepad - as many as

**REQUIREMENTS:**  
1. user can search down  
2. user can search up  
3. search can be case sensetive  
4. search can be case insensetive  
5. the found string gets selected  
6. multiple occurances of same string ("find next" button)  
7. "cannot find ..." message provided when needed  
8. default value provided (most recently searched string)

What is negative testing?

**DEFINITION:**Aimed at showing that software handles properly situations in which user acts not as user is supposed to act

* makes no sense if Positive Testing fails
* negative testing is to be done AFTER positive
* in lack of time situation minimize (skip) Negative Testing
* it results in more bugs than positive
* the volume of Negative Testing is much larger than Positive

What is Software Quality?

**DEFINITION:**

* From consumer perspective it is about customer satisfaction (subjective matter)
* from QA perspective it is about software being up to requirements
* being 100% up to requirements does not make product popular or selling well
* inside the software company there are roles who see quality from consumer perspective (upper management, sales, PR, marketing, support)

What is Gray Box Testing?

**DEFINITION:** Gray box testing is using structural, design, and environment information (complete or incomplete) to expand or focus black box testing and to enhance testing productivity by using appropriate methods and tools.

* Extension of BLACK BOX testing
* Using methods and tools (languages)
* a lot of web testing is done in gray box area

**AVOID:**  
- Combination of black and white box

Write test cases for Login/Password functionality

**ASSUMPTIONS OF REQUIREMENTS:**  
- valid login and valid password combination lets user in  
- any other combination will be rejected  
- Password field displays input in bullets  
- "Cut" menu item on "Password" field is disabled  
- "Copy" menu item on "Password" field is disabled  
\*\*\* (for Web Application) Automatic logout on using BACKSPACE button (browser) to get back to the Login/Password screen after successful login  
  
**PRE-CONDITION:** there are 2 existing account to use for test execution  
  
**TEST DATA:**  
- mikhail portnov12345  
- obama barak54321  
  
**TEST CASES:**ID.....Description................................ .Instruction..................................Expected result  
1. Valid login/valid password .................mikhail/portnov12345 .................user logged in  
2. Valid login/invalid password ...............mikhail/portnow12345 ................error: provide valid combination  
3. Invalid login/valid password ...............obama/portnov12345 .................error: provide valid combination  
4. Masking password ............................type 1234567 ............................shown in bullets  
5. "Copy" menu item on Password ..........NA ...........................................disabled  
6. "Cut" menu item on Password ............NA ...........................................disabled

Write test cases for testing "Last name" field

REQUIREMENTS  
- the field is required  
- it accepts strings up to 32 characters long  
- all characters are allowed  
- the first character will automatically capitalize when input focus moves to another field  
- input is limited to latin characters only  
- same validation apply to typed or pasted input  
- leading and trailing SPACE characters to be eliminated  
  
TEST CASES  
1. Positive, letters Portnov accepted  
2. Positive, digits Portnov1 accepted  
3. Positive, sp. characters Portnov$ accepted  
4. Positive, capitalization portnov Portnov  
5. Negative, required field empty field error message (required)  
6. Negative, Russian chars xxxxxx error message (illegal...)  
7. Negative Leading/trailing Portnov spaces removed  
8. Boundary: 31 character Y accepted  
9. Boundary: 32 characters Portnov12...(32) accepted  
10. Boundary: 33 chars/type (33 characters) first 32 accepted  
11. Boundary: 33 chars/paste (33 characters) first 32 accepted

VandV Model – Verification and Validation:

Verification – Review of the documents, text case creation and do the gap analysis if any

Validation – Executing test cases against the requirements

***Diffference between SOAP and REST***

SOAP (Simple Object Access Protocol)

* Works with any   
  communication Protocol  
  (TCP HTTP FTP SMTP)
* Support only XML type of data
* Security and authorization are   
  part of the protocol
* Documentation in WSDL
* Heavy

REST (Representational State Transfer)

* Works with HTTP/HTTPS   
  communication protocol only
* Support JSON , XML,   
  TEXT, HTML
* Authorization and security   
  must be implemented   
  separately
* Documentation in Swagger
* Easy to implement

**Principles of REST**

* **RESOURCES** expose easily understood directory structure URL.
* **REPRESENTATIONS** transfer JSON or XML to represent data objects and attributes.
* **MESSAGES** use HTTP methods explicitly (for example, GET, POST, PUT, and DELETE).
* **STATELESS** interactions store no client context on the server between requests. The client holds session state.

**Advantages of API Testing?**

* **Test for Core Functionality:**API testing provides access to the application without a user interface. The core and code-level of functionalities of the application will be tested and evaluated early before the GUI tests. This will help detect the minor issues which can become bigger during the GUI testing.
* **Time Effective:**API testing usually is less time consuming than functional GUI testing. The web elements in GUI testing must be polled, which makes the testing process slower. Particularly, API test automation requires less code so it can provide better and faster test coverage compared to GUI test automation. These will result in the cost saving for the testing project.
* **Language-Independent:** In API testing, data is exchanged using XML or JSON. These transfer modes are completely language-independent, allowing users to select any code language when adopting automation testing services for the project.
* **Easy Integration with GUI:** API tests enable highly integrable tests, which is particularly useful if you want to perform functional GUI tests after API testing. For instance, simple integration would allow new user accounts to be created within the application before a GUI test started.

Web Services VS APIs

Web Services

|  |  |
| --- | --- |
| Web Services | APIs |
| A web service is just an API wrapped in HTTP. | It's not always be a web-based |
| All Web Services are APIs. | All APIs are not web services |
| It uses XML as structured data for exchanging information and communication. | It uses XML, JSON or plain data as structured data. |
| Web service is used to communicate between two machines on a network. | Web API is used as an interface between two different applications for communicating with each other. |
| Generally, it uses the HTTP protocol for communication. It also uses SOAP, REST, and XML-RPC as communication. | It may use any means of communication protocols such as HTTP/HTTPS to initiate the interaction between applications |
| Contract first – All details are specified and then code is developed so changes are not permitted | In parallel, accepts changes |

Document Object Model:

It is browser’s internal representation of web page. A document is the name of the web page, So DOM is model for all the stuff on the web page. The stuff on the web page is called as objects / nodes. The DOM is a model for web pages. It acts as a set of instructions for web browsers.

The DOM is represented as a type of data structure called a tree. Every object in the DOM is hierarchically under another object, and any object can have multiple children but only one parent.

The most common way to represent the DOM is with HTML.

In short, the DOM is a set of instructions on how to build a specific web page. The DOM tells a browser how to render the web page's content, and we can edit the DOM via source code.

Emulator Vs Simulator

* **Android Emulator** emulates Android devices on your computer
* Provides almost all of the capabilities of a real Android device
* Testing applications on the emulator is in some ways faster, easier and cheaper
* Advantages
  + Can simulate both software and hardware
  + Run the code without any modification
  + Help you find unexpected behavior
* Disadvantages
  + Very slow
  + Hard to configure and maintain
  + Don’t take into consideration factors like battery overheating or conflicts with other (default) apps
* **Simulator** runs on your Mac and behaves like a standard Mac app while simulating iPhone, iPad, Apple Watch, or Apple TV environments.
* Each simulator has its own simulation environment, independent of the others, with its own settings and files.

Multiple simulators can be run at the same time.

* Advantages
  + Fast
  + No setup needed (or minimum involvement)
  + Can be used to study the behavior of an app
  + Help you find unexpected behavior.
* Disadvantages
  + Can only simulate the software part
  + Apps may might need a modified code to run on simulators
  + Simulation results may be difficult to analyze, due to incomplete data
* **Android Emulator**. It duplicates every aspect of the original device’s behavior, both hardware and software.
* **Apple Simulator**. It simulates devices OS, but it doesn’t attempt to simulate the real device’s hardware.

**Selenium** is an open source for a range of tools and libraries aimed at supporting browser automation. It supports most web browsers**,**It is most famous for enabling rapid, repeatable web-app testing, which allows developers to ship new releases faster and with confidence.  It provides a single interface that lets you write test scripts in programming languages like Ruby, Java, NodeJS, PHP, Perl, Python, and C#, among others.

Selenium Webdriver - Executable module that opens up a browser instance and runs the test script. Browser-specific—for instance, Google develops and maintains Chromedriver for Selenium to support automation on Chromium/Chrome.