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<https://www.techbeamers.com/must-know-qa-interview-questions-senior-engineer/>

**About yourself**

* Experience , SQA , Certifications, Test plan, Test estimations, execution, managing team, domains,
* Education

**What are your job duties in your project**

**Explain the Project**

**Explain Selenium Framework**

**Traceability Matrix**

**Estimation methods**

**Difference between Agile and Scrum?**

**What was the process of Continuation Integration?**

**What’s your role in Continues Integration**

**What is DevOps**

**What is Test Driven Development**

**What is Gitflow workflow**

**What are the fundamental differences between DevOps & Agile?**

**What is the difference in Regular App Testing and RPA Testing?**

**How do you measure ROI for RPA:**

* **Velocity:** Measure the start time versus stop time of a back-office process before and after an RPA deployment and compare
* **Productivity:** Measure the length of time human workers spent on a task versus how quickly robots complete that same task
* **Quality:** Measure output accuracy before and after RPA deployment — it should be 100 percent after
* **Compliance:** Measure compliance before and after RPA deployment — it should be 100 percent after
* Old = how much effort was it taking before multiplied by the salary of the people doing the work
* New = cost of RPA solution + cost of people to manage the RPA
* If “new” costs less than “old” over similar timeframes (and better still, over a long-term horizon), you’ve got a foundational case that the RPA project was worth it in terms of financial costs.

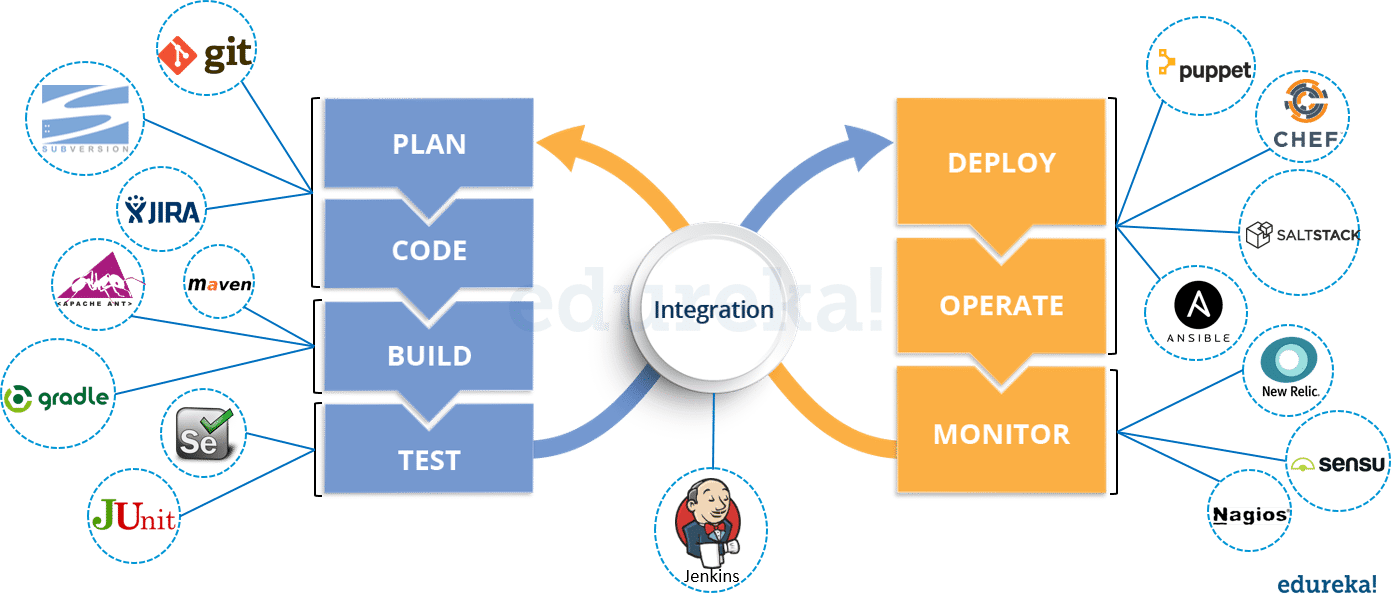
**How do you do Estimation for RPA:-** following things need to be considered while estimation:

* Break the high level processes into small modules which help you in estimation
* Consider potential challenges
* Complexity and business rules of the applications
* Level of RPA developer and Number of Developers
* Consider Studio workflow creation, Orchestrator configuration, dashboard etc
* Unit and functional testing
* RPA projects are extremely hard to estimate, as many challenges may come during development. Additionally average 30% buffer time need to be considered

**How do all tools work together in CI?**

Given below is a generic logical flow where everything gets automated for seamless delivery. However, this flow may vary from organization to organization as per the requirement.

1. Developers develop the code and this source code is managed by Version Control System tools like Git etc.
2. Developers send this code to the Git repository and any changes made in the code is committed to this Repository.
3. Jenkins pulls this code from the repository using the Git plugin and build it using tools like Ant or Maven.
4. Configuration management tools like puppet deploys & provisions testing environment and then Jenkins releases this code on the test environment on which testing is done using tools like selenium.
5. Once the code is tested, Jenkins send it for deployment on the production server (even production server is provisioned & maintained by tools like puppet).
6. After deployment It is continuously monitored by tools like Nagios.
7. Docker containers provides testing environment to test the build features.



**Your Achievements so far:**

* Professional achievement: I have been awarded time to time for my leadership, collaboration, team-work skills at client as well at my company. Because i was major contributor in delivering complex projects with 0 defects and gr8 quality.
* Looking at my skills I have been promoted step by step from QA trainee to QA manager
* I have certification of Information System Examination Board (ISEB) in Testing and CSI (computer society of India) which are equivalent to ISTQB

**Stories:**

Doc Review Dashboard: Spreadsheet

eCapture Testing - Processing Job Issue

Assurion – 0 defect .. for many release and got award for that

Before joining this Project, every month testing team used to explain root cause of the defect

That reduced drastically after I joined, we hardly went to the room. My client software director has explicltly mentioned about that in her comments on linked in.

**Failures:**

I don’t think there is any failure

But at some instance I had learning curve challenges because of new domain, complex applications, and less documentation.

**Any defects that you think you could have caught early in the game?**

* Internal Dashboard project / Billing project: Discovery job issue .. count mismatch if re-ran the discovery

**Specific Challenges:**

* When joined the team, it was challenge for me to understand new domain and complex application and team mates did not have sufficient time to explain all of those. Solve doing exploratory testing, discussing with other teams whenever got time, it took little time.
* No sufficient documentation before testing. : uses team meetings, discussions, experience,
* Can tell these stories:
* Doc Review Dashboard: Spreadsheet
* eCapture Testing - Processing Job Issue

**Goal (where do you find yourself in next 5 yrs):**

My goal right now is to find a position at a company where I can grow and take on new challenges over time. Ultimately, I’d like to assume more technical responsibilities and get involved in new technologies. But most importantly, I want to work for an organization where I can build a career.

I’m also really excited to take on more managerial responsibilities in the next few years and potentially even take the lead on some projects.

**Weakness:**

* Perfectionism & too detailed oriented: I had worked with Japanese client. They are known as perfectionists. So they always expect very minute details and in proper order. Ultimately those habits came to me. However, when I work with other team mates, I expect the same thing from them. Sometime I feel it’s my weak point because I force them to be detailed in the test deliverables or test cases just for my expectation. And sometimes I feel that that bothers my team members. However, I working on that to accept other formats and understandable details.

E.g. if there is test case of on click a button, a message should be displayed. …. That wasn’t sufficient… what message with no changes in with words and what place at top of the page or just below the button or it would be alert message etc.

- Too Focused: I have had a tendency to work until I burnout. After a while, I started noticing a pattern that I would work very hard on projects, continuous sit at one place like hours and hours without taking a single minute break and staying up late night to finish then in advance and to provide something more better than expected. Ultimately its impacting my health; however I am learning healthy limits on myself and to stick doable schedule so that I don’t feel like burning out again

**Strengths:**

* Dedicated: here I would say, whenever there was complex piece of module or project, it always come to me since my manager knows about my hard work and dedication towards to understand it deeply and test it thoroughly by putting extra efforts and a going an extra mile.

Ex. Of Doc Review Dashboard, Billing Items creation in Billing automation.

* Hardworking – same as above
* Discipline -
* Patience – when you work on any new model/new project or new domain, it require patience to understand it. When I came here, it was totally new domain and very complicated one because of a lot dependency on many systems. There were no one to explain all of these because of tight schedule and lack of resources. When nothing is explained to you and had asked to perform on any module, without loosing patience you have to work and achieve small small milestones, it may take some time to complete the tasks, but at the end you understand the system your own. You have to be patience.
* Loyal – if you see my career history or company switches, you would guess about it.

**Why do you want to work here**

* (If Company is very well know), This company’s reputation is certainly a factor. I would be proud to work for a company with such a long history of leadership in the industry.
* I have great respect for your company’s software products and I would welcome the opportunity to work with the best in the business. I think my Hardworking, proactive style and experience in software testing would fit in well here — especially in this particular role.
* (If company is not known), Before getting a call about this opportunity, I must admit that I didn't know much about your company. I've been doing some research and I need to say that I'm impressed by your work and your vision for the future. I'm genuinely interested in getting more involved in the technological side of Software development and testing. As an experienced Software tester and with my dedication, hard working and proactive style, I know I can bring a lot of value to the team.

**Why should I hire you**

* I guess I have all the required skills and experience that you are looking for and I am confident that I would be superstar in this position. I am certified UiPath developer and as well as sound experience in Quality Assurance which will surely help me to build defect free bots. In my last job, I have delivered complex projects successfully with the high quality by giving my full dedication and doing hard work, and I was known as detailed oriented and perfectionists, as I had found issues in 3rd party tools; and I think I really fit in this position.

**Why are you leaving current position**

* I’ve enjoyed working with a great group of people at my current employer, but I am starting to feel like that I need some new challenges and I feel this opportunity in your company fits very well with the direction I want to take my career.

About yourself

Why you decided to switch your profile from QA to RPA developer?

My questions for interviewer

Amazons STAR principals (Situation, Task, Action, Result)

* Story about you recently apologize someone
* Story about the when you did not meet clients expectation, what happened, what did you do to rectify it
* About the time when you had to leave a task unfinished
* About the time when you had to work on a project with unclear responsibilities
* About the time when you give simple solution to complex problem
* About the something that you invented and that helped company and saved some money
* About the time when you were wrong
* About the time when you had to work with incomplete data and information
* About a time when you influenced a changed when you ask a question
* About the time when you solved a problem with your superior knowledge and observations
* About the time when you mentored someone
* About the time when you could not meet your own expectations on project
* About the time when a team member did not meet your expectations on a project
* About your proudest professional achievements
* About the time when you went way beyond the scope of the project and delivered
* About the time when you took calculated risk
* About the time you needed to get information from someone who wasnot very responsive. What did you do?
* About the time when you had to work with limited time and resources
* What would you do if you find out that your closest friend at work was stealing
* About the time when you had to tell someone a harsh truth
* Give 2 examples of when you did more than what was required in any job experience
* About the time when you did not accept the status quo
* About an unpopular decision of yours
* When you had to step up and disagree with team member approach
* If your manager was instructing you to do something you disagree with, how would you handle it?
* What is most difficult situation you faced in your life? How did you handle it?
* An example of a time when you were 75% of way through a project, and you had to pivot strategy – how were you able to make that into a success story?
* Why Amazon
* explain how you personally have utilized data, found new resources to harvest data and anything in between in order to drive to your results.
* Describe what Human Resource means to you
* What is the angle between the hour hand and minute hand in an analog clock?
* How do you detect whether or not a word is a palindrome?
* Do you know our CEO? How do you pronounce his name?
* Here's a string with numbers from 1-250 in random order, but it's missing one number. How will you find the missed number?
* Are you willing to work on your feet for ten hours, four days a week?
* Do you think you'll reach a point where you storm off the floor and never return?
* Would you tell on a employee for stealing?
* How would you solve problems if you were from Mars?
* How do you persuade people?
* Describe what happens in your browser as soon as you hit enter after writing a URL in the address bar.
* Walk me through how Amazon Kindle books would be priced.
* What would you do if you saw someone being unsafe at work?
* How would you improve Amazon's website?
* You have 30 people working under you with 2 working indirect. Each employee can do 150 units/hour. Each work day has two 15 min breaks and one 30 min lunch. In a 5 day work week, how many total units can you complete?
* What is the most difficult situation you have ever faced in your life? How did you handle it?
* How would you tell a customer what Wi-Fi is?
* You are Amazon and Samsung offers you 10,000 Samsung Galaxy S3s at a 34% discount. Is that a good deal?
* Give me an example of a time when you were 75% of the way through a project, and you had to pivot strategy--how were you able to make that into a success story?
* Should we sell private label cleaning products?
* Which Amazon leadership principle do you resonate most with?
* What will you do when you miss a dead line for a release.
* <https://www.techbeamers.com/amazon-quality-assurance-engineer-interview-guide/#toc>
* <https://www.geeksforgeeks.org/amazon-interview-experience-set-420-qae/>
* You have a two words which are an anagram of one another, write a program which can validate this.
* Find the unique numbers in an integer array?
* Find the duplicates in an integer array?
* write test plan for Kindle save and restore feature?
* There are 50,000 html files and some of files in those have phone numbers in either of two formats (xxx) xxx-xxxx or xxx-xxx-xxxx. How would you get the files which has these phone numbers?
* Write test cases for a search bar.
* Explain your career experience
* Take any one project and explain your role in it end to end.
* Which skills you worked on
* Take any one skill and explain how did you use it in particular project form your resume.
* past experience on testing.
* Studying **"Cracking coding interview"** was pretty helpful
* String manipulation
* How to find first non-repetitive characters in String
* How deal with conflict
* How to lead a project
* Given that there are overlapping properties of triangles, what are some of the ways you would test for them?
* sorting using data structure
* QA process questions, Projects working, troubleshooting at work, problem solving questions in test
* What would you put in search bar to collect data for the test cases?
* How many test cases did you write and how long did it take
* test a given webpage
* java fundamentals
* find two elements of an int array that add to a sum
* Write code for String reversal, string search etc
* QA Documentation Details and Experience.
* What would you test differently on a mobile device vs. a desktop?
* Program to parse a log file
* Given a string, remove subsequent duplicate characters until we get a unique set of characters.

Ex: input ==> apple ; expected output ==> ale  
Ex: input ==>appapple; expected output ==>le

* How will you test the download function in a mobile music app ?
* How you'll test "add pay card" page
* checking a given number in binary form - a palindrome or not.
* What you'll do, if there is a bug on the field but you can't reproduce it.
* Hash map
* reverse a string keeping special characters at same position ie as$d% to ds$a%
* There is an array containing only 1's and 0's. Find number of 1's in minimum complexity.
* Convert aaabbccdaa to a3b2c2d1a2
* Write test cases for ATM machine
* Write test cases for student registration form
* A product have release at US. Now same product is to be released in India. Give your testing approach.
* Write integration test cases for Whatsapp application
* get the 2nd greatest number in an array
* ATM machine , after entering pin -> not able to withdraw money. What are all the possible reasons. Debug
* 3\*3 matrix given. print the row with max. sum and column with max sum
* App working in intranet; not on internet, what could be the reasons
* Merging 2 sorting arrays
* How do u test an e-commerce app
* Can you tell me about a situation where you had to act fast and sacrifice quality?
* What are your views on Sex Education?

**Tell us about yourself?**

* **My Name is Gopal. I have around 10 Yrs of IT experience in Manual Testing. I have worked on domains like Mobile Insurance, Asset Management, HealthCare and e-commerce. Currently working on Mobile insurance since last 4.5 yrs. Also, I am leading a QA team of 15 resources. My current job responsibilities are as, responsible for timely deliverables, report daily status to the managers, highlight if there are any impediments or issues and keep track on that, follow up on open issues with the concerned team/person, track on daily testing activities, provide estimations. I have completed master degree in computer science. I have two certifications (ISEB & SQTA).** Personal details are as, I stay here with my parents, wife and a daughter.

**Question: What is the most challenging situation you have faced during testing?**

* New client and Requirement was not freeze and there was tight deadlines (Chunghwa): Put extra efforts to complete the tasks, identified impact base test cases to maintain quality in tight schedule, motivate team to do so, maintain balance of extra hrs within team

**Who are the owner of your company?**

* **Faisal, Tanveer & Zia**

**Good points of your company?**

* **Good working environment (explain)**
* **Employee friendly company (explain)**
* **Facilities are good (Security for lady employees, transport facility at odd timings, )**

**What techniques do you use for estimations?**

* **I consider following points for estimate calculations: Requirement/functionality type (easy, moderate, complex), impact on existing modules or functionality, approximate number of scenarios, time to execute one test case, dependency of other teams or resources or applications.**

**How much buffer time would you consider for estimation?**

* **20%**

**What is Defect Density and how to calculate it?**

* **It is measure of the total number of defects in a release or module or functional point divided by total number defect of the software.**
* **It helps us to identify candidate for additional inspection or testing.**

**What is DRE and how to calculate it?**

* **Defect Removal efficiency (For QA team): It gives a measure of the QA team’s ability to find out defects before to Prod release.**
* **(valid Defects in QA) / (valid defects in QA) + (valid defects in UAT & PROD)**
* **If DRE >= 0.8 the good product quality otherwise no.**
* **Defect Removal efficiency (For development Team): It gives measure of the development team’s ability to remove the defects prior to the release.**
* **E.g. if 100 defects found in testing and 90 defects fixed by development team before production release. So here we can say that 90% is the DRE.**

**What is Quality and how to calculate quality score?**

* **Quality means the degree to which the application meets the specified requirements, customer’s need and expectation.**
* **DRE calculation is one of the method to measure the quality.**

**Question 7: To make a project successful, what qualities should be there in a testing team lead?**

- **good listening** and **communication** **skills**, technical and non-technical **problem solving skills**, and **planning skills**. A test lead should have **soft speaking skills**, and a **confident**, **inspiring**, **dedicating**, and **motivating** personality. A team lead should always **encourage teamwork** and overall development.

**Question 8: On what parameters you evaluate your team's performance?**

Evaluation of the performance of team members is one of the important tasks of a lead. There are certain parameters for it set by each team leader. You can mention some of them as technical skills, competency, self initiative, sense of responsibility, outcome of the task assigned, flexibility while working, communication skills, and improvement shown throughout the task.

**Q11. What is the role of QA in a project development?**

**Select, Join, Update, Insert, Having, Top most, second last top most queries?**

**Contents of WQSR, PSR, BAR, DSR, Sign-off reports, test plan?**

**Details of WMI (windows management instrumentation) Tools, WireShark Tool?**

* **WMI displays event for all instances of registered consumers and details of windows application**
* **Wireshark is network packet analyzer. It tries to capture network packets and displays all the possible details of it.**

**Unit testing tools, Functional testing tools, Performance testing?**

### Q14. What are the key challenges of software testing?

1. Application should be stable enough to be tested.   
   2. Testing always under time constraint   
   3. Understanding requirements, Domain knowledge and business user perspective understanding  
   4. Which tests to execute first?   
   5. Testing the Complete Application   
   6. Regression testing   
   7. Lack of skilled testers.  
   8. Changing requirements  
   9. Lack of resources, tools and training

### Why does software have bugs?

What is Agile? How it works?

What are Qualities of Good Test engineer and Test Leads?

* Problem solving, out of box thinking, proactive, flexible, good requirement understanding skills, good planning skills

### What is known as Configuration Management?

What tasks do you do at the beginning of the projects?

* Requirement review and analysis .. details
* Plan and organize the KT if project is new
* Collect queries of requirement
* Kick off meeting? … what is kick off meeting

Test Planning Process in your project?

* Scope of required test
* Decide test strategy – keeping mind testable requirement, testing environment, which will give as efficient and quality testing result. Elaborate more
* Identify testing tool (functional, unit, performance, stress)
* Estimates and capacity calculation with the help of schedule, skills and team size
* Create test schedule
* Training requirements of the team
* Test environment
* Identify test metrices which are required to the management or managers or team

What test leads do that than testers

* Communication with clients, onsite co-ordinators, mangers
* Track the assigned tasks, activities, progress as per schedule
* Report status to the stakeholders
* Report test results
* Get info for latest builds/releases
* Obtain issue resolution

Test lead’s daily routine?

* Review test cases and test data and get them address to review comments
* Track new / updated requirements and modify testing artifacts
* Administer the project in test management system
* Administer the application under test – add users, provide appropriate rights
* Assign tasks to team as per schedule
* Tracking schedule
* Ensure team members are occupied with work

How to ensure good quality bug report

* Review bug and assign to concern developer
* Track the defects
* Ensure the resolved defects are re-tested

How to Motivate your team

* Be approachable and available to the testers
* Plan and organize team meetings and ensure action is taken as per discussion
* Plan and organize the trainings
* Review status reports

Do you do anything to improve your own skills

* Learn latest testing techniques, strategies, testing tools
* Be aware of current and upcoming projects
* Manage time to contribute more and more

About yourself

* Name, place info, education-short, job experience, family details-short

Why do you like to work in our company

* What you like about company
* Relate it to your long term goal

Your strengths

* Adaptability – adjustable to any kind of situation e.g.
* Hard working
* Honest
* Flexibility e.g.
* Optimistic – positive attitude
* Persistence – regularity in your work
* Fast decision making
* Self motivated

Your weaknesses (include only 2-3 points)

* Straight forward e.g.
* Sensitive e.g.
* Don't Trust people very quickly e.g.
* To speak lie is very difficult to me
* I can’t say no to anyone who ask for help
* Get nervous when talk to strangers
* I am bit lazy about which I am not interested

Why should hire you

* With reference to previous work experience, I satisfy all the requirements for this job. I am sincere with my work and I never let you down in anyway. I promise you will never regret for this decision to appoint me in your organization

Tell me about this company

* Fastest growing company
* Support to employee
* Good environment
* Many branches so that I can show my talent

why are you looking for a job change?

* Thanks for previous organization
* Explain what you learn from previous experience
* Share reason for job change
* Related to career goal

I am thankful to previous organization because I have learnt a lot of things from there. According to me changes are necessary for everyone to enhance your skills, knowledge, personal growth and financial growth. Your organization is the good platform where I can learn more.

Your salary requirement?

* Share your expected salary
* Say – as per company norms for the job

What are your career goal

* Short term goal – to get a job in reputed company with good salary where I can utilize my skills and improve my skills
* Long term goal – to be in respectable position in the company

Do u have any questions:

* Express thanks for asking this questions
* Salary structure
* Job timings
* Job location
* Transport facility

How to measure testing quality?

What is Quality?

When to stop testing?

What is Agile (Scrum)?

**Qualities of Good Leader**

\***CORE VALUES** (Customer Satisfaction, Agility, Excellence, Execution, Integrity):

- Initiatives to ensure process integrity of tasks assigned and assumes active role in his/her technical, methodological and personal further development. Establishes creditability with consistent and qualitative output. Ensures frameworks and process are established in organization and others are trained on the same.

\* **LEADING**

- Develops parts of the strategy, taking the challenges of the competition, industry trends, corporate vision and other influences into account. Remains calm and relaxed in challenging situation, ad hoc professional presentations under diverse and complex conditions.

\* **POSSESSING GOOD AND EFFECTIVE COMMUNICATION SKILLS**

- Able to communicate effectively with his team and with the client verbally or non-verbally. Asks feedback regularly, helps team members improve their communication skills.

\* **PROVIDING GUIDANCE TO THE TEAM**

- Thinks laterally while making decisions. Decisions are aligned with the vision of the organization. Ensures that the decisions resolve the problems. Empowering the team by educating them about decision making.

\* **PROVIDING FAIR AND EQUITABLE TREATMENT**

- Completely unbiased while assessing team members and encouraging an open and transparent environment in the team.

**\*** **ENCOURAGING THE GROWTH OF THE TEAM MEMBERS**

- Identifies opportunities and allocates them to the team members based on their skills. Providing them with the right resources to make the full use of the opportunity provided.

\* **MANAGING THE TASKS EFFECTIVELY**

- Takes on new responsibilities. Willing to assist co-workers. Knows about planned changes and actively prepares for them in his/her area.

\* **CREATING AND FOSTERING A POSITIVE WORK ENVIRONMENT**

- Effective team functioning and delivery. Conducive team working environment without any conflicts in team and overall objectives are achieved. Role and goal clarity to team members.

\* **CUSTOMER FOCUS**

- Proactive in understanding of clients' needs and adopts the consulting approach and ensures customer delight thereby creating long term relationship.

\* **POSSESSING A CONTINUOUS IMPROVEMENT MINDSET**

- Providing a platform to the team members and exploiting their potential so that they come up with innovative and productive and effective ideas by pushing their boundaries.