1) What is API?

**API** (*Application Programming Interface*) helps in communication and data exchange between two software systems. API act as an interface between two applications and allows the two software systems communicate with one another. API is a collection of functions which can be executed by another software program.

API works as; it takes a request from the source, takes that request to the database, fetches the request data from the database and returns a response to the source. API takes the requests from the user and gives the response without exposing the internal details. API acts as Abstraction.

### 2) What is API testing?

**API testing** is a type of software testing that involves testing APIs directly. API is a part of integration testing to check whether the API meets expectations in terms of functionality, reliability, performance, and security of applications. Multiple API system can performed API testing. In API testing, our primary focus is on Business Logic Layer of the software architecture.

### 3) What are the types of API testing?

API testing involves the following types of testing:

* Unit Testing
* Functional Testing
* Load Testing
* Runtime/Error Detection
* Security Testing
* UI Testing
* Interoperability and WS compliance Testing
* Penetration Testing
* Fuzz Testing

### 4) What are the protocols used in API Testing?

Protocols used in API testing are:

* HTTP
* REST
* SOAP
* JMS
* UDDI

### 5) What are the tools used for API Testing?

Tools used for API testing are:

* Parasoft SOAtest
* PostMan
* AlertSite API monitoring

### 6) What is API test environment?

For API the test environment is a quite complex method where the configuration of server and database is done as per the requirement of the software application. API testing does not involve graphical user interface (GUI).

API is checked for its proper functioning after installation.

### 7) What is API framework?

API framework is described by the config. File which consist of the list of all APIs that are required to be activated and are activated for any particular program run. This is essential as every test run does not require all APIs.

### 8) What are the limits of API usage?

Many APIs have certain limit set up by the provider. Hence, try to estimate our usage and understand how that will impact the overall cost of the offering.

### 9) What are the advantages of API testing?

Advantages of API testing are:

* **Test for core functionality:** API testing provides access to the application without the user interface. The core functionality of the application will be tested before the GUI tests. This will help to detect the minor issue which can become bigger during the GUI testing.
* **Time effective:** API testing is less time consuming than GUI testing. Particularly, API test requires less code so it can provide better and faster test coverage compare to GUI test automation. This will reduce the cost for the testing project.
* **Language Independent:** In API testing data is exchange using XML or JSON. These transfer mode are completely language-independent, which allows users to select any code language when adopting automation test service for the project.
* **Easy Integration with GUI:** API tests provide highly integrable tests which is useful to perform functional GUI tests after GUI tests. Simple integration would allow new user accounts to be created within the application before GUI started.

### 10) What are the principles of an API test design?

Here, are the seven principles of API test design.

1. **Exhaustive Testing:** Exhaustive testing is not possible. Instead we need optimal amount of testing which is based on the risk assessment of the application.
2. **Defect Clustering:** Defect Clustering states that a small number of modules contain the most of the defect detected. Approximately 80% of the defect found in 20% of the modules. By experience we can identify such risky modules. But this approach has its own problems. If the same tests are repeated over and over again, eventually the same test case will no longer find new bugs.
3. **Pesticide Paradox:** Testers cannot depend on existing technique. They must have to look continually to improve the existing method to make testing more effective. But even all these hard work in testing we can never claim our product is bug free. To overcome this, test cases need to be regularly reviewed and revised add new and different test cases to help find more defects.
4. **Testing shows presence of defects:** Testing principle states that- testing talks about the presence of defects not about the absence of defect. Software testing reduces the probability of undiscovered defects remaining in the software but even if no defects found, it is not a proof of correctness.

But if we work hard, taking all precautions and make our software products 99% bug free. The software does not meet the needs and requirements of the client.

1. **Absence of error -fallacy:** This can be possible the software which is 99% bug free is still unusable. The case can be if the system is tested for the wrong requirement. Software testing is not finding the defects but also to check that software addresses the business needs. The absence of error is fallacy i.e. finding and fixing defects does not help if the system build is unusable and doesn't fulfill the user's needs and requirements.
2. **Early Testing:** Testing should start as soon as possible in the software development lifecycle. So that defects in the requirement or design phase captured in the early stages. It is cheaper to fix defect in the early stages of testing. We should start finding the bug at the moment the requirements are defined.
3. **Testing is context dependent:** Testing is context dependent that we test an e-commerce site will be different from the way we test the commercial. All the developed software's are not identical. We will use different methodology; techniques and type of testing depend on the application type.

### 11) What is API framework?

A framework or software framework is a platform for developing software applications. API framework is a foundation on which software developer can build applications for a specific platform.

**Example:** A framework can include predefined classes and functions that can be used to process input, manage hardware devices and interact with system software.

Framework is similar to an Application Programming Interface, technically framework includes API. Framework serves foundation for programming while API provides access to the elements supported by the framework. Framework also includes code libraries, compiler and other programs used in the software development process.

API framework is defined by configuration file which consists the list of all APIs that is required to be activated and activated for a particular program run.

### 12) What are the common tests that performed on API?

Here, are the common tests that performed on API are as:

1. Response of the API should be verified based on the request. We will verify that the return value is based on request.
2. When API is updating any data structure we should verify the system is authenticating the outcome.
3. We will verify whether the API is trigger other event or request another API.
4. We will verify the behavior of the API when no value is return.

### 13) What exactly needs to verify in API testing?

In API testing, we send a request to API with the known data and then analysis the response.

1. We will verify the accuracy of the data.
2. Will see the HTTP status code.
3. We will see the response time.
4. Error codes in case API returns any errors.
5. Authorization would be check.
6. Non-Functional testing such as performance testing, security testing.

### 14) What are the differences between API and Web Services?

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **API** | **Web Services** |
| **1.** | API may or may not need network for its operations. | Web Services always need network for its operation. |
| **2.** | API can be communicated through SOAP, REST, XML-RPC and CURL calls as well. API can also be exposed in number of ways like JAR, DLL, XML over HTTP, JSON over HTTP etc. | Web service can be communicated through SOAP, REST, AND RPC. |
| **3.** | API can perform all the operations which web service can't perform. | Web service can't perform all the operations like API. |
| **4.** | All APIs are not web service. | All web services are API |

### 15) What is API documentation?

A good documentation is must for any foundation. API documentation serves as quick reference for accessing library or working within a program.

When we use any such documents, it must consists of proper plan, content source, proper layout, information related to each function etc.

There are various documentation tools like Doxygen and JavaDoc. Here, are the functions which are documented which revolve around the parameters like:

* Function description
* Type and syntax of error message that may occure
* Syntax, elements and sequence needed for each parameter
* Links regarding functions

### 16) What is the most used template for API documentation?

Here, are the various documentation template that make the whole process simple and easy. They are:

* Swagger
* Miredot
* Slate
* FlatDoc
* API blueprint
* RestDoc
* Web service API specification

### 17) What are the types of bug that can be found during API testing?

API testing helps us to find many types of bugs which are:

* Stress
* Security
* Duplicate or missing functionality
* Reliability
* Unused flags
* Performance
* Incompatible error handling
* Multi-threaded issue
* Improper errors

### 18) What are the difference between API testing and UI testing?

UI (User Interface) testing means the testing of the graphical user interface. The focus of UI testing is on the look and feel of the application. In user interface testing the main focus is on how users can interact with app elements such as images, fonts, layout etc. are checked.

API testing allows the communication between two software systems. API testing works on backend also known as backend testing.

### 19) What is SOAP?

SOAP (Simple Object Access Control) . It is an XML based protocol that helps in exchanging information among computers.

### 20) What is REST API?

**REST API** is a set of function helps the developers performing requests when the response is receiving. Through HTTP protocol interaction is made in REST API.

REST is defined as Representational state transfer. It is an effective standard for API creation.

### 21) What are the differences between SOAP and REST API?

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **SOAP API** | **REST API** |
| **1.** | **SOAP** stands as Simple Object Access Protocol. | **REST** stands as Representational State Transfer. |
| **2.** | **SOAP** is a protocol. | **REST** is an architectural pattern. |
| **3.** | **SOAP** can work with XML format. In SOAP all the data passed in XML format. | **REST** permit different data format such as Plain text, HTML, XML, JSON etc. But the most preferred format for transferring data is in JSON. |

### 22) What are the major challenges faced during API testing?

The major challenges faced during the API testing are:

* Parameter Selection
* Parameter Combination
* Call sequencing
* Output verification and validation
* A major challenge is providing input values which are very difficult because GUI is not available.

### 23) What are the difference between API Testing and Unit Testing?

Difference between API testing and Unit testing are:

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **API Testing** | **UNIT Testing** |
| **1.** | API testing is a form of black box testing. | Unit testing is a form of white box testing. |
| **2.** | API testing is performed after the project completion during the test. | Unit testing is performed when the project is created. |
| **3.** | In API testing there is a wide scope of testing. | In Unit testing there is a limited scope of testing we can test only the basic functionality. |
| **4.** | API testing is done by the testers. The whole purpose of API testing is end to end testing of the functionality. | Unit testing is done by the developer. In unit testing every functionality is separately tested. |

### 24) What is a RESTFUL web services?

There are two kinds of web services

1. SOAP Web Services
2. RESTFUL Web Services

**1. SOAP (Simple Object Access Protocol) -** SOAP is a XML based method which is used in Web Services.

**2. RESTFUL Web Services -** To implement the concept of REST architecture HTTP method is used. RESTFUL Web Services defines URI (Uniform Resource Identifier), and also provides resource representation like JSON and a set of HTTP method.

### 25) What is Resource in REST?

REST architecture treats any content as resource, which can be text files, HTML pages, images, videos or dynamic business information. REST server gives the functionality to access the resources and modifies them. We can identify the each resources by URIs/ global IDs.

### 26) What is the way to represent the resource in REST?

REST uses different representation to define the resources like text, JSON and XML. The most popular representation of resources is JSON and XML.

### 27) What protocol is used by the RESTFUL Web Services?

RESTFUL Web Services uses the HTTP protocol. They use the HTTP protocol as a medium of communication between the client and the server.

### 28) What are the characteristics of REST?

Here, are the two characteristics of REST.

1. REST is stateless. With the use of the REST API the server has no status, we can restart the server between two calls, inspite of all the data is transferred to the server.
2. Web Services uses POST method to perform operations, while REST uses GET method to access the resources.

### 29) What is messaging in RESTFUL Web Services?

RESTFUL Web Services use the HTTP protocol as a communication tool between the client and the server. This is the technique when the client sends a message in the form of HTTP request the server send back the HTTP reply which is called Messaging. This message consists message data and Meta data i.e. information on the message itself.

### 30) What are the components of an HTTP request?

An HTTP request have five components. These are:

1. **Action showing HTTP method** like GET, PUT, POST, DELETE.
2. **Uniform Resource Identifier (URI):** URI is the identifier for the resource on the server.
3. **HTTP version:** Indicate the HTTP version like- HTTP V1.1.
4. **Request Header:** Request Header carries metadata for the HTTP request message. Metadata could be a client type, format supported by the client, format of a message body, cache setting etc.
5. **Request Body:** Resource body indicates message content or resource representation.

### 31) What is the HTTP protocol supported by REST?

**GET:** GET is used to request data from the specified resource.

GET request can be cached and bookmark. It remains in the browser history and has length restriction. When dealing with sensitive data GET requests should not be used.

**POST:** POST is used to send data to server for creation or updating the resources.

POST requests are never cached or bookmark.

**PUT:** PUT replaces the current representation of the target resource with the request payload.

**DELETE:** DELETE removes the specified resource.

**OPTIONS:** OPTION is used to describe the communication option for the target resources.

**HEAD:** HEAD asks for response which is identical to GET requests, but without the response body.

### 32) Can we use GET request instead of PUT to create a resource?

PUT or POST method is used create a resource. GET is only used to request the resources.

### 33) What is URI? What is the purpose of web-based service and what is it's format?

URI stands for Uniform Resource Identifier. It is a string of characters designed for unambiguous identification of resources and extensibility by the URI scheme. The purpose of URI is to locate the resource on the server hosting of the web service.

A URIs format is **<protocol>://<service-name>/<Resource Type>/<ResourceID>**

### 34) What are SOAP Web Services?

**SOAP** (Simple Object Access Protocol) is defined as the XML based protocol. SOAP is also known for developing and designing web services and also enable the communication between the applications developed on different platform by using different programming languages on the internet. SOAP is platform and language independent.

### 35) When we can use SOAP API?

We can use SOAP API to perform the operation on records like create, retrieve, update or delete. We can use API to manage password, perform searches etc.

# **HR Interview Questions | Common Interview Questions**

A list of frequently asked **HR interview questions** or **Common interview questions** or **Job interview questions** and answers are given below.

### 1) Tell me about yourself?

This is the most famous question for an interviewer and also most difficult to answer this question for the candidate. This question puts all the pressure on the candidate, and the interviewer relax.

You should alert enough to answer this question. You should start with an easy and confident tone and answer in a proper manner. It should not be scripted. Always remember, you are not giving the interview to a robot so your articulation, your pronunciation of each word should be clear and confident.

**A good way:**

Analyze your interviewer interests.

Express your most important accomplishments first.

**Possible Answer 1**

"Good morning/afternoon/evening" sir/mam.

First of all, thank you for giving me this opportunity to introduce myself.

My name is Ajeet Kumar.

As far as my education qualification is concerned, I have done MBA with finance stream from Srivenkateswara university in Emerald's P. G. College, Tirupathi, in the year of 2014.

I had completed B.tech from N.I.T Jaipur in 2012.

I had completed my schooling from G.I.C. Allahabad.

As far as concerned my family, I belong to a middle-class family. My father is a Businessman, and my Mother is a homemaker. My brother is preparing for civil services.

I am good in programming languages C, C++, and Java and very much interested in HTML, CSS, ASP. Net and SQL.

My strength is self-confidence, positive attitude, hard work.

My weakness is: I can easily believe every one.

My hobbies are: Watching news channels, Playing volleyball, Listening to music.

**Possible Answer 2**

"Good morning/afternoon/evening" sir/mam, it's my pleasure to introduce myself. I am Anshika Bansal. I belong to Meerut. I have done my B.Tech in CSE from Lovely Professional University.

While coming to my family members, there are 4 members including me. My father is a doctor, and any mother is a teacher. My younger sister will appear her 12th CBSE board exam this year.

Now coming to me, I am sweet smart, confident, and hardworking person. I am a cool hearted person, so usually see every difficulty with a positive side and keep myself always smiling which makes me stronger even more.

I can carry out any task assigned to me without hesitation.

My hobbies are dancing, Internet surfing, playing Chess, listening to music, watching the news channel. In my spare time, I like to read news on my phone and traveling to my hometown.

Thank you for giving this opportunity to introduce myself.

**Possible Answer 3**

"Good morning/afternoon/evening" sir/mam, it's my pleasure to introduce myself. I am Anshika Bansal. I belong to Meerut. I have done my B.Tech in CSE from Lovely Professional University.

I am carrying 5 years of experience at top Wall Street Companies. In my recent company, I led the development of an award-winning new trading platform. I can survive in a fast-paced environment.

Now I am looking for a chance to apply my technical expertize and my creative problem-solving skills at an innovative software company like yours.

### 2) Why are you applying for this job? (or)

### Why this role attract you?

By this question, the interviewer wants to know that:

* If you fully understand what the job entails
* How well you might match their requirement
* What appeals to you most about this job

Before answering this question, take your own time an answer in the way that convinces the interviewer. Explain your qualities according to the above-stated points.

**Possible Answer 1**

I have applied for this vacancy because it is an excellent match for my skills and experience. This role is exactly the sort of role I am currently targeting, and I am confident I will be able to make a major contribution.

**Possible Answer 2**

 Sir, it's a great privilege to work in a reputed company like yours. When I read about your requirement, I found that my skills are matching with them. Through this role, I can show my technical skills to contribute to the company growth.

### 3) Would you like to work overtime or odd hours?

You should become very honest to answer this question. Don't tell a lie or compromise to get the job only. If you don't have any problem, you can answer like this:

 I know that in the company being asked to work for an extended number of hours comes with a good reason, so I am ok with it. It an extra effort means I am doing something for the company, I'll be happy to do it.

### 4) What is more important to you: the money or the work?

This is a very tricky question. The work should always be more important than the money. This frame of mind is good for you(at least at the time of interview).

**Possible Answer 1**

"Money is always important, but the work is most important for me."

**Possible Answer 2**

"I would say that work is more important. If we work and achieve Company goals then obviously money would follow. I believe work to be prior."

**Possible Answer 3**

"Work is more important for me. Working just for money may not be fulfilled if I don't feel satisfied with my job. My work makes me stay productive, and money would naturally come along well."

**Possible Answer 4**

"I think money probably matters to me about as much as it does to anyone. It's vital and necessary for us to live and prosper but, at the same time, it's not my single most important driving force. I believe that money is rewarded for work."

### 5) What do you know about this organization?

You should fully aware of that organization where you are going for an interview, so check the history, present structure and working style of that organization. Check the company's website, Facebook, Twitter, Google+, LinkedIn pages to gather the information.

**Possible Answer 1**

We all know that it is one of the fastest growing infrastructure company in India. The facilities provided to the employee is best. People feel proud to be the part of your company as the company provides full support to their employees in professional front. The working environment of this company is decent. It has crossed the branches in the world also. And I was in search of this type of company.

**Possible Answer 2**

We all know that this company is India's no.1 company for development. I was delighted to see on your company website that your employees are talking about how great it is to work for your company. Now these days, so many people seem to hate the company where they work for one reason or another. It's great to see that your employees are proud to talk about how much they love their company and jobs.

### 6) Why did you leave your last job?

You should be very careful with this question. Avoid trashing other employers and making a statement like **"I need more money".** Instead of this, you can say that:

Sir, it's a career move. I have learned a lot from my last job, but now I am looking for new challenges to broaden my horizons and to gain a new skill-set.

### 7) Why should we hire you?

Tell your qualifications and highlight that points which makes you unique.

**Possible Answer 1**

"I believe that everyone starts with a beginning, I need a platform to prove my abilities and skills. I think your company is the right place to explore my abilities. I need to be a part of your growth. I will do my level best."

**Possible Answer 2**

"As a fresher, I need a platform to prove my ability. If I will be a part of your company, I'll put my effort and strength to uplift your company. None is born with experience, and if you hire me, I will get professional experience through your company."

**Possible Answer 3**

"Sir, as I am a fresher, I have theoretical knowledge, but I need a platform where I can implement my knowledge in the practical field. I am ensuring you that I will put all my efforts for the good progress of the organization. As a fresher, I have no preset mind regarding work culture in an organization, and this will help me to adapt the working culture of your company very easily. Being punctual and regular, I can finish the work giving to me on time and try my best to fulfill all the needs of the company."

**Possible Answer 4**

"I have a good experience in that particular field (field of your specialization), and I think my talents will be a big contribution to the continuing pursuit of excellence of your company."

### 8) What are your salary expectations?

Don't ask your salary in exact numbers, instead of this show your commitment to the job itself.

**Possible Answer 1**

I am more interested in the role than the pay, and I expect to be paid appropriate money for this role based on my experience. As you also know that the high cost of living here in Delhi.

**Possible Answer 2**

 As I am fresher, Salary is not an issue for me. Learning and gaining experience is my major priority. As your company is one of the most reputed company, I just accept the salary offered by you is the best in the industry.

**Possible Answer 3**

As of now, I haven't thought much about it. I am more focused on learning the requirements for this position that I am applying for.

### 9) Assume you are hired, then how long would you expect to work for us?

**Possible Answer 1**

"I will do my best for the growth of your company as long as I have the career growth, job satisfaction, respect and a healthy environment, then I don't need to change my company."

**Possible Answer 2**

"I will work with the company as long as my presence benefits the company and I get ample opportunity to grow and develop both professionally and monetarily."

**Possible Answer 3**

"Everyone looks for a bright future, healthy work environment, good salary, job satisfaction and I am pretty sure that your company gives such things, so I don't need to change the company."

**Possible Answer 4**

"I will work with the company as long as my presence benefits both the company and mine in parallel. So your company gains good results, and I can be in a good position to improve my skills."

### 10) How would you rate yourself on a scale of 1 to 10?

**Possible Answer 1**

 I will rate myself 8 out of 10 because I would never like to think that there should be a room left for putting in more efforts. That thought will create an interest in learning the things. Thank you very much for giving me this wonderful opportunity.

**Possible Answer 2**

I will answer this question based on some parameters. As far as hard work is concerned, I will rate myself as 8 because there should always be a scope to increase our skills which will create an interest in learning the things. When it comes to creativity, I would like to rate myself as 9. In the past, I have designed banners and brochures which were appreciated by the clients. To talk about patience, I will tag myself with 6 because I am an entry-level professional. Same as personal life, even professional life needs more experience for more patience. That is probably why in most companies, senior management looks more patient than entry level or even middle level. Overall, I would rate myself as 8 on a scale of 1 to 10.

### 11) What are your achievements in life?

This question may also be asked that what are your biggest achievements? Or what are you most proud of?

You should discuss only work-related achievements. Try to pick a recent achievement.

**Possible Answer 1**

"My greatest achievement so far in my career would probably be winning the Manager of the Year award last year."

**Possible Answer 2**

"My biggest accomplishment is overcoming my fear of failure. It gives me a complete sense of living and makes me more confident."

**Possible Answer 3**

"I experienced my greatest achievement when I worked as a website manager for an entertainment outlet. My team was under pressure and the website was struggling at the time, and I was tasked with forming a strategy to increase traffic.

### 12) What is your objective in life?

Your answer should be realistic and practical.

**Possible Answer 1**

"My short-term goal is to work in a reputed organization like yours where I can enhance my technical skills and knowledge.

My long-term goal is to see the company at a topmost position where I am one of the people responsible for that."

**Possible Answer 2**

"My goal is to become a successful person and make my family proud of me."

### 13) What are your strengths?

You should always remember that even if your strength is not business related, find a way to relate it to work. Tell your positive points related to the job.

**Possible Answer 1**

My main strengths are the ability to use my initiative to take on challenges. I am always proactive at what I do, and that keeps my mind stimulated and focused.

**Possible Answer 2**

My greatest strengths would be my intelligence and thoughtfulness. I believe that in every work environment you need to process every step and be detailed in your work.

**Possible Answer 3**

My time management skills are excellent, and I'm organized, efficient, and take pride in excelling at my work.

**Possible Answer 4**

I always understand the value of time, and I am always able to innovate. I listen to advice from others.

**Possible Answer 5**

My greatest strength is my ability to focus on my work. I'm not easily distracted, and this means that my performance is very high.

**Possible Answer 6**

My biggest strength is my Confidence. Apart from that, I am Hardworking, self-motivated with a positive attitude towards my career and my life. If I have a problem, then I think its an opportunity for me to express my ability.

### 14) What are your weaknesses?

Everyone has weaknesses so while answering this question don't spend so much time on this. This question is generally asked to know how honest you are with yourself. State one or two minor weaknesses and try to relate it works. (avoid saying "I work too hard" it is a very common answer). Don't pretend you don't have weaknesses and don't avoid answering the question.

**Possible Answer 1**

You can say, "I used to be very disorganized, always forgetting assignments and birthdays. But I managed to work out a computerized system of to-do lists and reminders that keep me on top of everything."

**Possible Answer 2**

"I am a straightforward person, and I cannot say no when someone asks me for help."

### 15) What are your hobbies?

It totally depends on you what you like and what hobbies do you have but always justify your answer.

**For Example:**

My hobbies are dancing, Internet surfing, playing Chess, listening to music, watching the news channel. In my spare time, I like to read news on my phone and traveling to my hometown. Thank you for giving this opportunity to introduce myself.

### 16) Explain, how would you be an asset to this organization?

While answering this question, don't merely say that you are hard working, dedicated, punctual, etc. because these are not assets, these are the responsibility that management wants. Off course these are positive words and has a lot of meaning for you as well as for the company. Actually, these qualities make you an asset for the company after getting experience.

**Possible Answer 1**

"To become an asset for an organization, we have to punctual, dedicated, quickly adapt of the environment and positive working attitude I have all of these qualities so I will prove an asset for this company."

**Possible Answer 2**

"As I'm a fresher, I'll be passionate about my work, and if given a chance I'll be ready to expose myself into different sectors of work into the industry, and would be faithful to the company always."

**Possible Answer 3**

"My skill in XYZ company is outstanding. I have earned a lot of certificates and awards from my past employers. As an employee, I can handle pressure with ease and can work with minimal supervision."

### 17) Would you lie for the company?

You should answer this question in a very diplomatic manner.

**Possible Answer 1**

"It depends on the situation if my lie creates a positive impact on the company and It was useful for many people, then I will lie."

**Possible Answer 2**

"Probably I would say no for a lie. But if condition persists that my lie will help thousands of persons and it is not giving any impact to other persons, then I will agree with the lie. My one lie results lot of success and happiness without hurting others rights then I expect to do this."

### 18) Are you applying for other jobs also?

This question has a very specific purpose. The interviewer wants to know that if the candidate admits that he has applied to other places or gives a canned answer. Or what the candidate think about their company.

You should never claim that you did not apply to other company. Despite this, you can say that -

As you know, I would like to work as a software developer. Beyond your company, I have also applied to XYZ company and ABC company. This answer is more specific.

### 19) How do you get to know about our company?

The interviewer should not lie while answering such questions. Because an interviewer is a brilliant person and they can detect it if you are lying.

**For Example**

I get to know about your company from several online websites.

### 20) What does success mean to you?

**Possible Answer 1**

If I feel I am making a difference working with a team of people to make a more profitable company. It is a success for me.

**Possible Answer 2**

If I put a smile on someone face and make him happy, it is a success for me.

### 21) Describe yourself in one word?

This question is asked to the candidate to judge how spontaneous and explaining he is. If he uses a word, he must be able to explain that word and also represent himself according to that word.

These are some positive words. You can use it but be sure that you are judging with the word.

Original, genuine, logical, incredible, focused, curious, active, quick, balanced, achiever, etc.

### 22) What is the difference between confidence and overconfidence?

Confidence is based on facts and knowledge, and overconfidence is based on speculation. There is a small difference between confidence and overconfidence. Yes, I can do this work is self-confidence. But only I can do this work is overconfidence.

Or you can say that: confidence is an internal belief that I am a right person for this job and overconfidence is thought that I am only the right person for this job.

### 23) What is the difference between smart work and hard work?

The difference between smart work and hard work are as follows:

Smart work and hard work are related to each other. Without being a hard worker, we can't be a smart worker. Smart work comes from the hard work. That means everyone has to specialize in his work to become a smart worker. So, all of us have to do hard work to achieve smart work.

So hard work increases your accuracy, and smart work increases accuracy as well as efficiency.

### 24) Just imagine that you have enough money to retire right now. Would you?

If your answer is YES, you are surely get FAILED.

**You can say that:**

 "No sir, I don't think so. I am a professional, and I love my work, so there is no question to leave my work. Yes, it may be that I would take a break to spend quality time with my family."

### 25) Don't you think that you are overqualified for this position?

This is trick of the interviewer to trap you and judge how boasting you are?

So, be alert to answer this question and don't even hint to the interviewer that you are overqualified although you are.

**This is a good answer:**

"I think I am qualified for this post because I am just a beginner and have lots more to learn. I think qualification is not only a matter of theoretical knowledge or results; it also depends on practical knowledge and learning. When I get practical knowledge, I will consider myself just a well-qualified not overqualified. Because learning never ends."

### 26) Do you have any blind spot?

It is a trick question. So don't specify your actual weaknesses. Instead of this try to show you are very team oriented

**For example:**

"I would say everyone has blind spots and I would too that's why I believe in teamwork because when you are a team, you can point out the blind spots of other people, and they will also do the same for you."

Note: "don't admit failure as a blind spot. Failure is not a blind spot."

### 27) How do you handle stress, pressure, and anxiety?

It is a typical interview question asked to judge how you handle the job stress and pressure.

**Possible Answer 1**

I believe in working in a planned way and finishing my work regularly. I always react to situations, rather than to stress. In this way, I handle the situation and don't take the stress.

**Possible Answer 2**

I go to the gym regularly and do work out. In this way, I remove my stress. I believe that physical exercise is a great stress reducer.

### 28) What is the disappointment in your life?

This question is asked to judge, what type of situations make you uncomfortable and disappointed. While answering this question, don't just say your disappointment. Instead of this, you should include what you learn from that incident.

**Possible Answer 1:**

"The greatest disappointment in my life so far as when my laptop had stolen, and I had lost all my important data. I remember that I had to work hard for the next 10 days to redo all my work to make sure to submit on time."

**Possible Answer 2: If you did not face any disappointment in your life**

"Sir, I don't feel that I have faced such type of situation."

### 29) What makes you angry?

You should always answer this question in a manner that suits both your personality and management too.

"Sir, I am not a short-tempered person, but I feel a bit of annoyance when someone disturbs me in my work without a genuine reason. Although I am an even-tempered person, when I get angry, I try to channel my negative feeling in my work."

### 30) What was the most difficult decision you have made in your past life?

This question is asked to judge your decision-making capabilities. The interviewer wants to know, how you take a decision in tough times.

**Possible Answer 1**

After completing my graduation, the toughest decision is whether to go for higher studies or do a job. Then I chose the job because getting trained is better than educated and it was also the demand of that time.

**Possible Answer 2**

My toughest decision was to take admission in B.tech. I belong to a middle-class family, and my father was not in favor of taking admission, but I convinced him, and today he is very happy.

**Possible Answer 3**

Before some time when I had to choose between joining a group of employees protesting some issue, and staying away from the issue. I ended up being a mediator between our immediate supervisor and employees, and I am glad I made that decision because it all ended well and without further conflicts in the company.

### 31) How did you know about this position/ vacancy?

Just tell the source from where you got the information about this post. If the interviewer asks, what you know about this position or what appeals you most in this position?

**Then you can add:**

I have carefully studied both the job description and the person specification, so I am fully aware of the duties and responsibilities of this role.

### 32) What gets you up in the morning?

It is my promise that gets up me in the morning. My promise is to learn something new and someone in need. It provides me the satisfaction that I am making a difference in someone life.

### 33) What is your favorite book?

This question is asked to judge your taste about reading books. The interviewer wants to know what types of book you like. Would you fit for the company culture?

Answer this question according to your sense, your knowledge about the book. Only named the books you have really read. You should choose something from a reputable author that your interviewer has probably heard of.

### 34) As you said, internet surfing is your hobby. Which site do you surf mostly?

This is your choice that which sites you surf most, but while answering this question always refers to sites which are relevant to your field of job. Don't take the name of social networking sites or other irrelevant sites.

### 35) What was the biggest mistake of your life?

At the time of answering this question, you should choose a story containing not too many mistakes. It should be real.

Talk about the mistake, but it is also important to convince the interviewer that you never make the same mistake again.

**For example:**

I think the worst mistake I ever made at work was in my first ever job - five years ago now. A more senior member of the team seemed to take an instant dislike to me from the start, and one day she was particularly unpleasant to me in front of several colleagues.

Later on, I was talking to one of those colleagues who was, I thought, attempting to console me. Angry and hurt, I foolishly vented my feelings and told her what I thought of the lady in question. I was naturally shocked to find out that she went on to tell everyone what I had said and this certainly didn't help my relationship with the team member who was causing me problems.

Rather than let the situation carry on, I chose to have a quiet word with this lady to find out what her problem was with me and to see if we could put it behind us. It turned out it was nothing personal; she just resented the fact that a friend of hers had also been interviewed for my position and had been turned down. Once we had got matters out into the air, her behavior changed, and we got on quite well after that. However, I certainly learned a lot from experience. I learned that careful communication is vital in managing interpersonal relationships and that if I have a problem with someone, it's always best to talk it over with them rather than with someone else.

### 36) Do you have any reference?

This question has just two answers, YES or NO. If you know anyone from that company, say YES, otherwise NO.

### 37) How do you deal with an angry or irritated customer?

**Possible Answer 1**

I would try to find out exactly what the problem was, and evaluate if there was something I could do to make it right.

**Possible Answer 2**

I would ask the customer to explain his problem and carefully listen to him. After that, I do my best to solve his problem. If that problem is not regarding my work area, I spoke to someone who could help him immediately.

### 38) How do you deal with an angry or irritated customer?

**Possible Answer 1**

I would try to find out exactly what the problem was, and evaluate if there was something I could do to make it right.

**Possible Answer 2**

I would ask the customer to explain his problem and carefully listen to him. After that, I do my best to solve his problem. If that problem is not regarding my work area, I spoke to someone who could help him immediately.

### 39) What is your greatest fear?

**Possible Answer 1**

Before some time, public speaking has been a challenge for me. I was very nervous and hesitate while giving any presentation, so I started taking public speaking seminars to improve it. Now, I still get nervous before pitches, but I have learned how to remain calm and get the job done right.

**Possible Answer 2**

As you know that I have never worked in my life and this is my first job, my inexperience is my weakness. But I beg to differ. I am confident and a fast learner. I assure you that I will perform my job without carrying any pre-conceived notions regarding how I feel.

### 40) Explain the difference between group and team?

The difference between group and team are as follows:

There is only one difference between the group and the team. That is unity. Any set of people who stand together without any purpose or goal can be called as Group. Whereas, when more than 2 people work towards a common goal, can be called as a Team. For example: If you assign work to a group, then the work will be divided between the members and each member will work out their part, without any coordination with the other members of the group. On the other hand, if you assign a project to a team, they will collectively take the responsibility and work together with the goal to achieve the desired result. In a team, the members will cooperate and coordinate with each other at all times.

### 41) What will you do if you don't get this position?

**Possible Answer 1**

I have high hopes that I will be selected. In case if I will not select, I will continue to look for another job in the same field that will fit my schedule and goals.

**Possible Answer 2**

 If I don't get this job, I will use this experience to reflect my weakness and try my best to improve on them for the future opportunities along the way.

### 42) What is the success for you?

Success refers to the accomplishment of an aim or purpose.

### 43) Would you like to relocate or travel for the company?

Firstly, you need to understand the purpose of this question. The fresher candidate does not say YES at once. This will only show your desperation to this job. You can answer like this:

**Possible Answer 1**

 I will definitely consider traveling if the opportunity is appropriate, rewarding and feasible. I don't think that I will have any problem with the traveling involved.

**Possible Answer 2**

Yes, as part of growing up. I used to travel a lot as my father is an ex-serviceman hence occasionally he used to be posted throughout the country. Though I would prefer my city as it is my birthplace and all my friends and relatives are there, but at the same time, I am ok with relocating.

### 44) What makes you happy?

I feel happy when I accomplished my task. I also feel happy when I achieved my goals. Holiday with my family and friends also makes me happy.

### 45) Is there anything which makes you different from other candidates?

It is good to start with a disclaimer that you are not aware of the strengths of the other candidate. Also, you sure that some impressive candidates apply for this position.

**Possible Answer 1**

Although, I am not familiar with the others whom you are interviewing for this position. I am sure many talented people applying for the job. But because of my background and the problem-solving skills, I considered myself to be a strong candidate for this position.

**Possible Answer 2**

I understand that success is not always guaranteed but there is still hope, and I never lose the faith, whether I succeed or not. I think this power makes me stand alone from all other candidates.

**Possible Answer 3**

I have exceptional organizational skills. In my last job, I created a project which was termed as quite creative by the clients. I think my technical skills make me stand alone from all other candidates.

### 46) Describe the three things that are most important for you in a job?

**Possible Answer 1**

According to me, Honesty, Loyalty, and determination to achieve my team's target are the three important things in a job.

**Possible Answer 2**

According to me, Professionalism, growth and a healthy work-life balance are the three important things in a job.

### 47) What are your expectations from the company?

Though this answer is objective and can be different for different persons, but you should be positive in your thoughts and do not say many things about the company which gives the interviewer an illusion that you are exaggerating. In short, be realistic and precise.

**For Example**

I have always wanted to work with an organization which provides a very comfortable and home like work environment. I would like to work in the company where I can get the opportunity to learn and enhance my skill to become a better professional in the future.

### 48) On a scale of one to ten, rate me as an interviewer?

**Possible Answer 1**

Sir, I'm not in the position to rate you as an interviewer. Anyway, I'm not going to disappoint you. As an interviewer you've fulfilled your job, So, I can give you 10 out of 10. But I'll give you 9/10 as there should always be a scope to increase our skills which will create an interest in learning the things. Thank you very much for giving me this wonderful opportunity.

**Possible Answer 2**

Thank you for giving me such an opportunity, but for sure I am not the person to rate you. As it is obvious that your position is highly reputed and you have been chosen to undergo this process that shows your excellence at this place, but still I have to answer this question so honestly, it would be 9/10 as no one is perfect and we always leave room for improvement.

### 49) Who is your role model? What have you incorporated into your life from him/her?

You should think of people who embody the qualities that you most admire.

**For Example**

The role model of my life is my mother. Whenever I am down my mother helps me to push my limits, and she always keeps me on the track. She was scolding me whenever I do something wrong. She is everything for me, I still got inspired from her, how she manages every problem in every situation.

### 50) Do you have any questions for me?

It's your turn now. If you get such an opportunity, you may ask questions like that:

**Possible Answer 1**

Thank you for giving me this opportunity. After my overall performance till now if I got selected what I need to improve and if I'm not selected how can I succeed further. Can you give any advice sir?

**Possible Answer 2**

First of all thank you very much, for being so much polite & friendly to me throughout the session, that I can express myself so easily. Can you please tell me that what are the qualities you are expecting from fresher like us & I want to know, if am selected, then what should I improve before I join your company, if I am not selected, your opinion will help me to the upcoming interview.

DevOps is a set of practices that combines software development and IT operations. It aims to shorten the systems development life cycle and provide continuous delivery with high software quality. DevOps is complementary with Agile software development



[Continuous integration](https://www.infoworld.com/article/3295900/what-is-continuous-integration-ci-faster-better-software-development.html) is a coding philosophy and set of practices that drive development teams to implement small changes and check in code to version control repositories frequently. Because most modern applications require developing code in different platforms and tools, the team needs a mechanism to integrate and validate its changes.

The technical goal of CI is to establish a consistent and automated way to build, package, and test applications. With consistency in the integration process in place, teams are more likely to commit code changes more frequently, which leads to better collaboration and software quality.

Continuous delivery picks up where continuous integration ends. CD automates the delivery of applications to selected infrastructure environments. Most teams work with multiple environments other than the production, such as development and testing environments, and CD ensures there is an automated way to push code changes to them.

CI/CD tools help store the environment-specific parameters that must be packaged with each delivery. CI/CD automation then performs any necessary service calls to web servers, databases, and other services that may need to be restarted or follow other procedures when applications are deployed.

Continuous integration and continuous delivery require [*continuous testing*](https://www.infoworld.com/article/3289104/how-to-align-test-automation-with-agile-and-devops.html) because the objective is to deliver quality applications and code to users. Continuous testing is often implemented as a set of automated regression, performance, and other tests that are executed in the CI/CD pipeline.

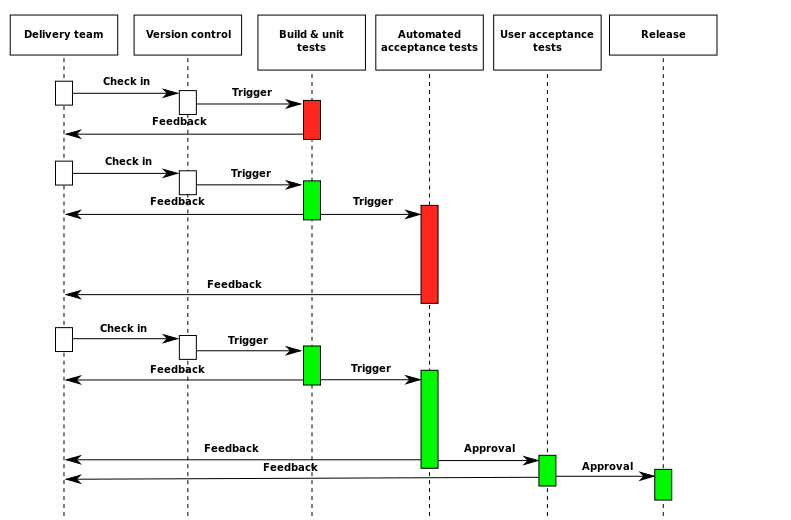
**CI/CD** là một bộ đôi công việc, bao gồm **CI (Continuous Integration)** và **CD (Continuous Delivery)**, ý nói là quá trình tích hợp (integration) thường xuyên, nhanh chóng hơn khi code cũng như thường xuyên cập nhật phiên bản mới (delivery).

Dưới đây là các bước thông thường của quá trình release tính năng trong một dự án thuộc hệ thống Teamcrop.  
– **Bước 1:** [Manual] Khởi tạo repository và có branch default là master và dev. Cài đặt trên Gitlab 9.  
– **Bước 2:** [Manual] Trừ owner ra, thì các coder sẽ push code tính năng lên branch dev  
– **Bước 3:** [Auto] Hệ thống tự động thực hiện test source code, nếu PASS thì sẽ deploy tự động (rsync) code lên server beta.  
– **Bước 4:** [Manual] Tester/QA sẽ vào hệ thống beta để làm UAT (User Acceptance Testing) và confirm là mọi thứ OK.  
– **Bước 5:** [Manual] Coder hoặc owner sẽ vào tạo Merge Request, và merge từ branch dev sang branch master.  
– **Bước 6:** [Manual] Owner sẽ accept merge request.  
– **Bước 7:** [Auto] Hệ thống sẽ tự động thực hiện test source code, nếu PASS sẽ enable tính năng cho phép deploy lên production server.  
– **Bước 8:** [Manual] Owner review là merge request OK, test OK. Tiến hành nhấn nút để deploy các thay đổi lên môi trường production.  
– **Bước 9:** [Manual] Tester/QA sẽ vào hệ thống production để làm UAT và confirm mọi thứ OK. Nếu không OK, Owner có thể nhấn nút Deploy phiên bản master trước đó để rollback hệ thống về trạng thái stable trước đó.  
– **Bước 10:** [Manual] Thắp nhang và hy vọng khách hàng không chửi rủa hoặc email complain.

**Continuous deployment** (**CD**) is a [software engineering approach](https://en.wikipedia.org/wiki/Software_development_process) in which software functionalities are delivered frequently through automated [deployments](https://en.wikipedia.org/wiki/Software_deployment).[[1]](https://en.wikipedia.org/wiki/Continuous_deployment#cite_note-1)[[2]](https://en.wikipedia.org/wiki/Continuous_deployment#cite_note-2)[[3]](https://en.wikipedia.org/wiki/Continuous_deployment#cite_note-3) CD contrasts with [continuous delivery](https://en.wikipedia.org/wiki/Continuous_delivery), a similar approach in which software functionalities are also frequently delivered and deemed to be potentially capable of being deployed but are actually not deployed

**Continuous delivery** (**CD**) is a [software engineering](https://en.wikipedia.org/wiki/Software_engineering) approach in which teams produce software in short cycles, ensuring that the software can be reliably released at any time and, when releasing the software, doing so manually.[[1]](https://en.wikipedia.org/wiki/Continuous_delivery#cite_note-CD_LC-1)[[2]](https://en.wikipedia.org/wiki/Continuous_delivery#cite_note-shahin-et-al-2017-2) It aims at building, testing, and releasing software with greater speed and frequency. The approach helps reduce the cost, time, and risk of delivering changes by allowing for more incremental updates to applications in production. A straightforward and repeatable deployment process is important for continuous delivery.

CD contrasts with [continuous deployment](https://en.wikipedia.org/wiki/Continuous_deployment), a similar approach in which software is also produced in short cycles but through automated [deployments](https://en.wikipedia.org/wiki/Software_deployment) rather than manual ones.



WebDriver driver = new WebDriver();

WebElement element = driver.findElement(By.name(“Tien”));

Element.sendKeys(“Good job!”);

System.out.println(“Tien try your best!” + driver.getTitle());