AiNS Computer Institute

REST ASSURED

"Rest Assured: Your Peace of Mind in Testing."

TESTING

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What is Rest Assured Testing?

Rest Assured is an open-source Java library that is used for automating REST API testing. It simplifies the process of sending requests to a RESTful web service, validating the responses, and performing various types of assertions. Rest Assured provides a domain-specific language (DSL) for writing tests, making it intuitive and easy to use for developers. It supports various authentication methods, request and response specifications, and assertion capabilities, allowing testers to thoroughly validate API functionality and behavior. Overall, Rest Assured is a powerful tool for ensuring the reliability and correctness of RESTful APIs in software applications.

Who are supposed to pursue Rest Assured Testing?

Rest Assured testing is typically pursued by software developers, quality assurance engineers, test automation engineers, and anyone involved in API testing within software development teams. This includes:

1. **Software Developers**: Developers who are responsible for building APIs or integrating with external APIs can use Rest Assured to test the functionality and behavior of their APIs programmatically.

2. **Quality Assurance (QA) Engineers**: QA engineers utilize Rest Assured to automate API testing, ensuring the reliability, functionality, and performance of APIs in the software being developed.

3. **Test Automation Engineers**: Test automation engineers specialize in creating automated tests to validate software functionality. They use Rest Assured as a tool to automate the testing of RESTful APIs.

4. **Integration Testers**: Those responsible for testing the integration points between different systems or components often use Rest Assured to validate the communication and behavior of APIs.

5. **API Developers and Consumers**: Individuals involved in developing or consuming APIs can use Rest Assured to ensure that APIs meet their requirements and expectations, both in terms of functionality and adherence to standards.
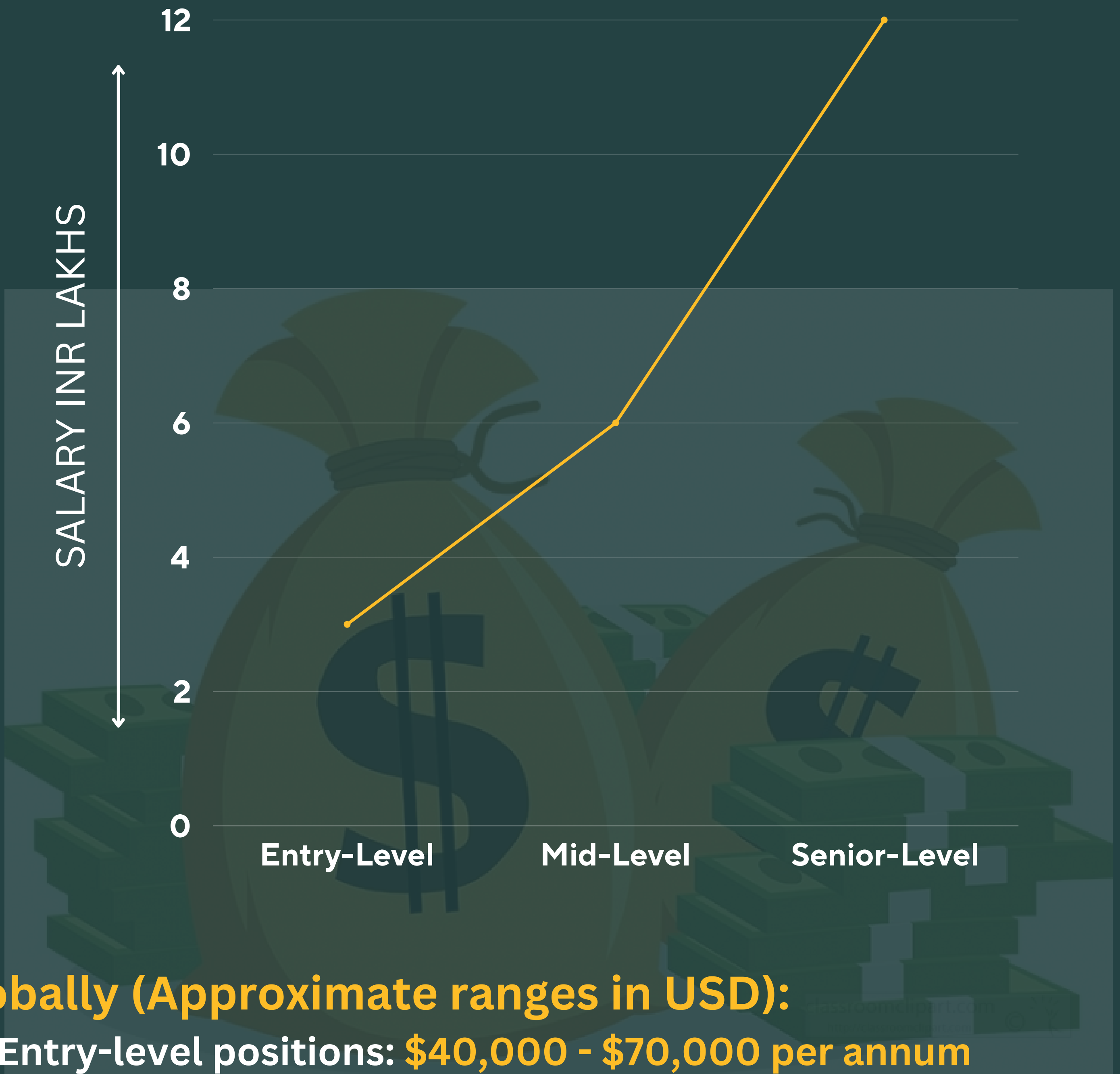
Overall, Rest Assured testing is suitable for anyone involved in the development, testing, and integration of software systems that rely on RESTful APIs.

DEMAND?

- The demand for API testing tools like Rest Assured is driven by several factors:
- Increased Adoption of APIs: With the rise of microservices architecture and the proliferation of web and mobile applications, the use of APIs has become ubiquitous. As a result, there's a growing need to ensure the reliability, functionality, and security of these APIs through thorough testing.
- Shift towards Automation: Software development teams are increasingly adopting automation to speed up the testing process, improve test coverage, and enhance overall software quality. Rest Assured provides a powerful framework for automating API tests, making it highly sought after by organizations looking to streamline their testing efforts.
- Agile and DevOps Practices: Agile development methodologies and DevOps practices emphasize continuous integration, continuous delivery (CI/CD), and frequent releases. API testing, including Rest Assured testing, plays a crucial role in ensuring that software updates and new features are thoroughly tested and validated before deployment.
- Quality and Reliability Requirements: As software applications become more complex and mission-critical, the demand for robust testing solutions, including API testing tools like Rest Assured, continues to grow. Organizations prioritize quality and reliability to deliver seamless user experiences and maintain competitive advantage.
- Global Software Development Trends: The increasing globalization of software development has led to a surge in demand for testing tools and practices that can accommodate distributed teams and diverse technological ecosystems. Rest Assured's flexibility and scalability make it well-suited for global software development projects.

REST-assured

SALARY EXPECTATIONS

SALARY INR LAKHS

12
10
8
6
4
2
0

Entry-Level   Mid-Level   Senior-Level

Globally (Approximate ranges in USD):
1. **Entry-level positions: $40,000 - $70,000 per annum**
2. **Mid-level positions: $70,000 - $120,000 per annum**
3. **Senior-level positions: $120,000 and above per annum**

TOP COMPANIES HIRING

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AWS Select Consulting Partners

salesforce partner

Salesforce Partners

Microsoft Gold Partner

Microsoft Gold Partners

DELL Boomi

Dell Boomi Partners

IBM | SI Partner

IBM SI Partner

Kentico Bronze Partner

Kentico Bronze Partner

WHY AiNS?

"AiNS Computer Institute stands out as the premier choice for Rest Assured testing courses due to its highly experienced faculty and comprehensive curriculum. The institute offers hands-on training, ensuring students gain practical skills in API testing using Rest Assured. With industry-leading instructors who possess deep expertise in software testing and automation, students can expect personalized guidance and mentorship throughout their learning journey. AiNS Computer Institute's commitment to excellence, coupled with its state-of-the-art facilities, makes it the top destination for those aspiring to master Rest Assured testing."

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5.0 ★★★★★

Software training institute in Pune, Maharashtra

BENEFITS at AiNS

1	**Expert Faculty**
2	**Industry-Relevant Curriculum**
3	**Career Guidance & Opportunities**
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7	**Get Interview Ready & Resume Building**
8	**100% Job Assistance**

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Certificate of Completion

This Certificate is presented to ___SAMPLE___ for successfully completing

his/her course in ___SAMPLE___ by securing ___99%___

(This percentage is based on student's Practical
& Written examination)

We wish him/her success in life.

Digitally signed by
Nasir Hassan Nasir Hassan Khan
Khan   Date: 2024.03.16
                        16:08:40 +05'30'

AUTHORISED SIGNATORY
DIRECTOR

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OUR CERTIFICATION:

ISO course certification offers several advantages:

1. International Recognition: ISO certifications are globally recognized, demonstrating compliance with international standards and best practices.
2. Enhanced Credibility: Certification enhances the credibility and reputation of the organization, instilling confidence in customers, stakeholders, and partners.
3. Improved Efficiency: ISO standards often focus on improving processes, leading to increased efficiency, reduced waste, and cost savings.
4. Market Access: Certification can provide easier access to new markets, as many contracts and tenders require ISO certification as a prerequisite.
5. Risk Management: ISO standards help identify and mitigate risks, ensuring better management of potential threats to the organization.
6. Customer Satisfaction: Compliance with ISO standards often leads to higher customer satisfaction due to improved quality and consistency of products or services.
7. Competitive Advantage: Certification can give a competitive edge by demonstrating commitment to quality, safety, and environmental responsibility.
8. Legal Compliance: ISO standards often align with legal requirements, ensuring compliance and reducing the risk of penalties or legal issues.
9. Continuous Improvement: ISO certification encourages a culture of continuous improvement, leading to ongoing refinement of processes and performance.
10. Employee Morale: Employees often take pride in working for a certified organization, leading to increased morale and motivation.

SYLLABUS

- Chapter 1: Introduction to Rest Assured
- Chapter 2: Setup Basic REST Assured Maven Project in Eclipse IDE
- Chapter 3: How to test GET Request using Rest Assured
- Chapter 4: How to test POST Request using Rest Assured
- Chapter 5: How to test PUT Request using Rest Assured
- Chapter 6: How to test DELETE Request using Rest Assured
- Chapter 7: How to test PATCH Request using Rest Assured
- Chapter 8: How to test POST request from JSON Object in Rest Assured
- Chapter 9: How to test POST JSON Object request using Java Map in Rest Assured
- Chapter 10: How to create JSON Array Request Body – org.json
- Chapter 11: How to print pretty JSON using org.json library in Java?
- Chapter 12: Assertion of JSON in Rest Assured using Hamcrest
- Chapter 13: Extraction from JSON in Rest Assured
- Chapter 14: How to Send A JSON/XML File as Payload to Request using Rest Assured
- Chapter 15: Logging in Rest Assured

Frameworks (any one)

- **Chapter 1: Integration of REST Assured with TestNG**

- **Chapter 2: Integration of REST Assured with JUnit4**

- **Chapter 3: Integration of REST Assured with JUnit5**

- **Chapter 4: Serenity BDD with Cucumber and Rest Assured**

- **Chapter 5: Rest API Test in Cucumber BDD**

Others:

- **-Special Hand written Notes**
- **-Practicals**
- **-Mini Project**