NFT test cases generation prompt

API endpoint - <https://api.groq.com/openai/v1/chat/completions>

Request:

{

  "model": "llama-3.3-70b-versatile",

  //"model": "openai/gpt-oss-20b",

  "messages": [

    {

      "role": "user",

      "content": "As an Senior Non Functional tester - Generate non functional test cases to verify the bank loans functionality. as per user story given here. As a loan officer, I want to be able to view a customer’s up-to-date credit history, so I can make informed loan decisions.As a borrower, I want to calculate my loan eligibility based on my income and credit score, so I know how much I can borrow.As a loan processor, I want to be able to track the status of a loan application, so I can manage my work effectively."

    },

    {

      "role": "system",

      "content": "- Senior Non Functional tester - Project: IDFC bank loans systems upgrade - Cover all possible combinations of non functional test cases- Follow realtime scenarios for test cases- Data parametrisation should be there to cover different data combinations"

    },

    {

      "role": "assistant",

      "content": "Use the below instructions - Instructions -Generate non functional test cases -verify the loan management system - Use the below story as input for deriving test cases Context -You are a non-functional tester - Project: Bank loan application - Cover all possible test cases - Include various parameters on non-functional testing and best real time scenarios.- user story below - As a loan officer, I want to be able to view a customer’s up-to-date credit history, so I can make informed loan decisions.As a borrower, I want to calculate my loan eligibility based on my income and credit score, so I know how much I can borrow.As a loan processor, I want to be able to track the status of a loan application, so I can manage my work effectively. Examples -Use IDFC First bank as reference Persona-Act as a Senior Non Functional tester and generate the test cases-Act as a Senior Non Functional test manager and review the test cases"

    }

  ]

}

Response:

{

    "id": "chatcmpl-32b9287c-ae07-4e66-9fbb-82d59dbf6f30",

    "object": "chat.completion",

    "created": 1761366425,

    "model": "llama-3.3-70b-versatile",

    "choices": [

        {

            "index": 0,

            "message": {

                "role": "assistant",

                "content": "-Act as a Senior Non Functional automation tester and automate the test cases \n\n\*\*Non-Functional Test Cases for Loan Management System\*\*\n\n\*\*Performance Test Cases\*\*\n\n1. \*\*Loan Officer\*\*: View Customer Credit History\n\t\* Test Case: Verify that the system responds within 2 seconds when a loan officer views a customer's credit history.\n\t\* Parameters: User type (loan officer), customer data (credit history), system response time\n2. \*\*Borrower\*\*: Calculate Loan Eligibility\n\t\* Test Case: Verify that the system calculates loan eligibility within 1 second based on borrower's income and credit score.\n\t\* Parameters: User type (borrower), income, credit score, system response time\n3. \*\*Loan Processor\*\*: Track Loan Application Status\n\t\* Test Case: Verify that the system updates loan application status in real-time and responds within 1 second.\n\t\* Parameters: User type (loan processor), loan application status, system response time\n\n\*\*Security Test Cases\*\*\n\n1. \*\*Data Encryption\*\*: Verify that customer credit history and loan application data are encrypted when transmitted over the network.\n\t\* Parameters: Data encryption protocol (e.g. SSL/TLS), data transmission method (e.g. HTTPS)\n2. \*\*Access Control\*\*: Verify that only authorized users (loan officers, borrowers, loan processors) can access and modify loan application data.\n\t\* Parameters: User role, access control mechanism (e.g. role-based access control), data access methods (e.g. CRUD operations)\n3. \*\*Authentication\*\*: Verify that the system authenticates users correctly and prevents unauthorized access to loan application data.\n\t\* Parameters: Authentication mechanism (e.g. username/password, biometric authentication), user credentials\n\n\*\*Usability Test Cases\*\*\n\n1. \*\*User Interface\*\*: Verify that the system provides a user-friendly interface for loan officers, borrowers, and loan processors to perform their tasks.\n\t\* Parameters: User interface design, navigation, and layout, user feedback mechanisms (e.g. error messages, success messages)\n2. \*\*Error Handling\*\*: Verify that the system handles errors and exceptions correctly and provides informative error messages to users.\n\t\* Parameters: Error types (e.g. validation errors, database errors), error handling mechanisms (e.g. try-catch blocks, error logging)\n3. \*\*Help and Documentation\*\*: Verify that the system provides adequate help and documentation for users to understand and use the system effectively.\n\t\* Parameters: Help resources (e.g. user manuals, online help), documentation quality and accuracy\n\n\*\*Compatibility Test Cases\*\*\n\n1. \*\*Browser Compatibility\*\*: Verify that the system is compatible with different web browsers (e.g. Google Chrome, Mozilla Firefox, Safari).\n\t\* Parameters: Browser types and versions, system compatibility\n2. \*\*Operating System Compatibility\*\*: Verify that the system is compatible with different operating systems (e.g. Windows, macOS, Linux).\n\t\* Parameters: Operating system types and versions, system compatibility\n3. \*\*Device Compatibility\*\*: Verify that the system is compatible with different devices (e.g. desktops, laptops, mobile devices).\n\t\* Parameters: Device types and screen resolutions, system compatibility\n\n\*\*Scalability Test Cases\*\*\n\n1. \*\*User Load\*\*: Verify that the system can handle a large number of concurrent users without significant performance degradation.\n\t\* Parameters: Number of concurrent users, system response time, load testing tools (e.g. JMeter, LoadRunner)\n2. \*\*Data Volume\*\*: Verify that the system can handle a large volume of loan application data without significant performance degradation.\n\t\* Parameters: Data volume, system response time, data storage mechanisms (e.g. databases, file systems)\n3. \*\*Network Traffic\*\*: Verify that the system can handle a large amount of network traffic without significant performance degradation.\n\t\* Parameters: Network traffic volume, system response time, network protocols (e.g. TCP/IP, HTTP)\n\n\*\*Reliability Test Cases\*\*\n\n1. \*\*System Uptime\*\*: Verify that the system is available and accessible to users at all times.\n\t\* Parameters: System uptime, downtime, monitoring tools (e.g. Nagios, Prometheus)\n2. \*\*Error Recovery\*\*: Verify that the system can recover from errors and exceptions correctly and minimize data loss.\n\t\* Parameters: Error types, error recovery mechanisms (e.g. transactional logging, backup and restore)\n3. \*\*Backup and Restore\*\*: Verify that the system provides adequate backup and restore mechanisms to prevent data loss.\n\t\* Parameters: Backup frequency, backup storage mechanisms (e.g. tape drives, cloud storage), restore mechanisms (e.g. full restore, incremental restore)\n\n\*\*Data Parametrization\*\*\n\nTo cover different data combinations, the following parameters can be used:\n\n\* User type (loan officer, borrower, loan processor)\n\* Customer data (credit history, income, credit score)\n\* Loan application status (pending, approved, rejected)\n\* System response time (2 seconds, 1 second, etc.)\n\* Data encryption protocol (SSL/TLS, etc.)\n\* Authentication mechanism (username/password, biometric authentication, etc.)\n\* Error types (validation errors, database errors, etc.)\n\* Browser types and versions (Google Chrome, Mozilla Firefox, etc.)\n\* Operating system types and versions (Windows, macOS, etc.)\n\* Device types and screen resolutions (desktops, laptops, mobile devices, etc.)\n\nBy using these parameters and test cases, the non-functional testing of the loan management system can be performed effectively, ensuring that the system meets the required performance, security, usability, compatibility, scalability, and reliability standards."

            },

            "logprobs": **null**,

            "finish\_reason": "stop"

        }

    ],

    "usage": {

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        "prompt\_tokens": 373,

        "prompt\_time": 0.034350531,

        "completion\_tokens": 1119,

        "completion\_time": 2.49796927,

        "total\_tokens": 1492,

        "total\_time": 2.532319801

    },

    "usage\_breakdown": **null**,

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    "x\_groq": {

        "id": "req\_01k8csxdgnf2mtnvar653tzgex"

    },

    "service\_tier": "on\_demand"

}

Output after parsing Json:

Here are the extracted \*\*test cases\*\* from the provided JSON output:

### \*\*Performance Test Cases\*\*

1. \*\*Loan Officer\*\*: View Customer Credit History

- Verify that the system responds within 2 seconds when a loan officer views a customer's credit history.

2. \*\*Borrower\*\*: Calculate Loan Eligibility

- Verify that the system calculates loan eligibility within 1 second based on borrower's income and credit score.

3. \*\*Loan Processor\*\*: Track Loan Application Status

- Verify that the system updates loan application status in real-time and responds within 1 second.

### \*\*Security Test Cases\*\*

1. \*\*Data Encryption\*\*

- Verify that customer credit history and loan application data are encrypted when transmitted over the network.

2. \*\*Access Control\*\*

- Verify that only authorized users (loan officers, borrowers, loan processors) can access and modify loan application data.

3. \*\*Authentication\*\*

- Verify that the system authenticates users correctly and prevents unauthorized access to loan application data.

### \*\*Usability Test Cases\*\*

1. \*\*User Interface\*\*

- Verify that the system provides a user-friendly interface for loan officers, borrowers, and loan processors to perform their tasks.

2. \*\*Error Handling\*\*

- Verify that the system handles errors and exceptions correctly and provides informative error messages to users.

3. \*\*Help and Documentation\*\*

- Verify that the system provides adequate help and documentation for users to understand and use the system effectively.

### \*\*Compatibility Test Cases\*\*

1. \*\*Browser Compatibility\*\*

- Verify that the system is compatible with different web browsers (e.g., Google Chrome, Mozilla Firefox, Safari).

2. \*\*Operating System Compatibility\*\*

- Verify that the system is compatible with different operating systems (e.g., Windows, macOS, Linux).

3. \*\*Device Compatibility\*\*

- Verify that the system is compatible with different devices (e.g., desktops, laptops, mobile devices).

### \*\*Scalability Test Cases\*\*

1. \*\*User Load\*\*

- Verify that the system can handle a large number of concurrent users without significant performance degradation.

2. \*\*Data Volume\*\*

- Verify that the system can handle a large volume of loan application data without significant performance degradation.

3. \*\*Network Traffic\*\*

- Verify that the system can handle a large amount of network traffic without significant performance degradation.

### \*\*Reliability Test Cases\*\*

1. \*\*System Uptime\*\*

- Verify that the system is available and accessible to users at all times.

2. \*\*Error Recovery\*\*

- Verify that the system can recover from errors and exceptions correctly and minimize data loss.

3. \*\*Backup and Restore\*\*

- Verify that the system provides adequate backup and restore mechanisms to prevent data loss.

These are all the \*\*non-functional test cases\*\* listed in the LLM's response.