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Github link for the Code : https://github.com/i-sanjay-cs/Test-data_generator

Task: Data Generation Using GenerateData.com

Description about the Generatedata.com

Introduction:

GenerateData.com is a powerful online tool designed to facilitate the generation of various types of test data for software testing, database population, and other purposes. With its user-friendly interface and extensive range of data types and formats, GenerateData.com offers a convenient solution for creating realistic and customizable datasets.

Objective:

The objective of this case study is to explore the features and capabilities of GenerateData.com for generating test data. We will discuss the process of using the tool, the types of data it supports, and how it can be customized to suit specific testing requirements.

Process:

1. Quick Start:

- Users can quickly start generating data by choosing the types of data they want and selecting a data format.
- The tool provides a wide range of data types to choose from, including Name, Phone, Email, Street Address, Postal/Zip, Region, Country, List, Word, Number, Currency, Alphanumeric, and more.

2. Data Format:

- GenerateData.com offers flexibility in choosing the desired data format, including JSON, CSV, SQL, XML, HTML, JavaScript, TypeScript, PHP, Perl, C#, Ruby, and Python.

- Users can select the appropriate format based on their requirements and the compatibility of the generated data with their testing environment or application.

Usage:

1. Choosing Data Types:

- Users can select multiple data types to include in their dataset, such as Name, Email, Phone, etc.
- Each data type can be customized further to specify parameters such as length, format, and constraints.

2. Customization:

- GenerateData.com allows users to customize the generated data to meet specific testing needs.
- Users can define the number of rows of data to generate, as well as specify any additional rules or constraints for the data.

3. Downloading Data:

- Once the data generation parameters are set, users can preview the generated data and make any necessary adjustments.
- The generated data can then be downloaded in the chosen format for use in testing or other applications.

Conclusion:

GenerateData.com is a valuable tool for software testers, developers, and data analysts seeking to generate realistic and customizable test data. With its intuitive interface, extensive range of data types, and flexible customization options, GenerateData.com streamlines the data generation process and enhances the efficiency and effectiveness of testing activities.

Case Study that I have considered for my task :

Testing E-commerce Platform Using Generated Test Data

Introduction:

This case study aims to demonstrate the efficacy of utilizing generated test data from GenerateData.com to conduct comprehensive testing of an e-commerce platform. The generated dataset comprises essential attributes such as email, phone numbers, country, name, address, currency, and number range.

Objective:

The objective is to evaluate the functionality, performance, and user experience of the e-commerce platform using simulated test scenarios derived from the generated test data.

Dataset Overview:

The dataset consists of 100 rows of simulated customer information and transactional data with the following attributes:

Email: Simulated email addresses for communication and account registration.

Phone: Contact numbers for customer support and verification purposes.

Country: Country names representing the geographical diversity of users.

Name: Simulated customer names to create diverse user profiles.

Address: Simulated addresses including street addresses, postal codes, and regions.

Currency: Randomly assigned currencies for pricing simulation.

Number Range: Numeric values representing various ranges for testing purposes.

Testing Scenarios:

Based on the generated dataset, the following testing scenarios will be executed:

User Registration and Login:

Validate user registration by creating new accounts using simulated customer information.

Verify the login functionality with registered user credentials.

Product Search and Browsing:

Test product search by using keywords and verifying search results.

Evaluate the browsing experience by navigating through product listings.

Adding Products to Cart and Checkout:

Add products to the cart using simulated data and proceed to checkout.

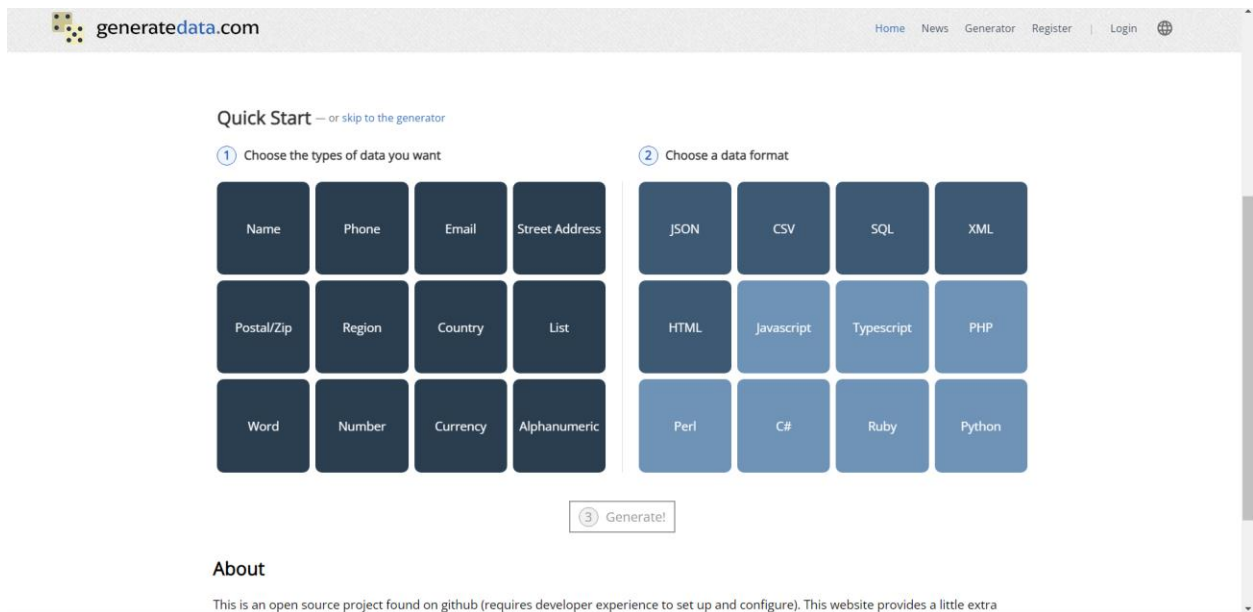
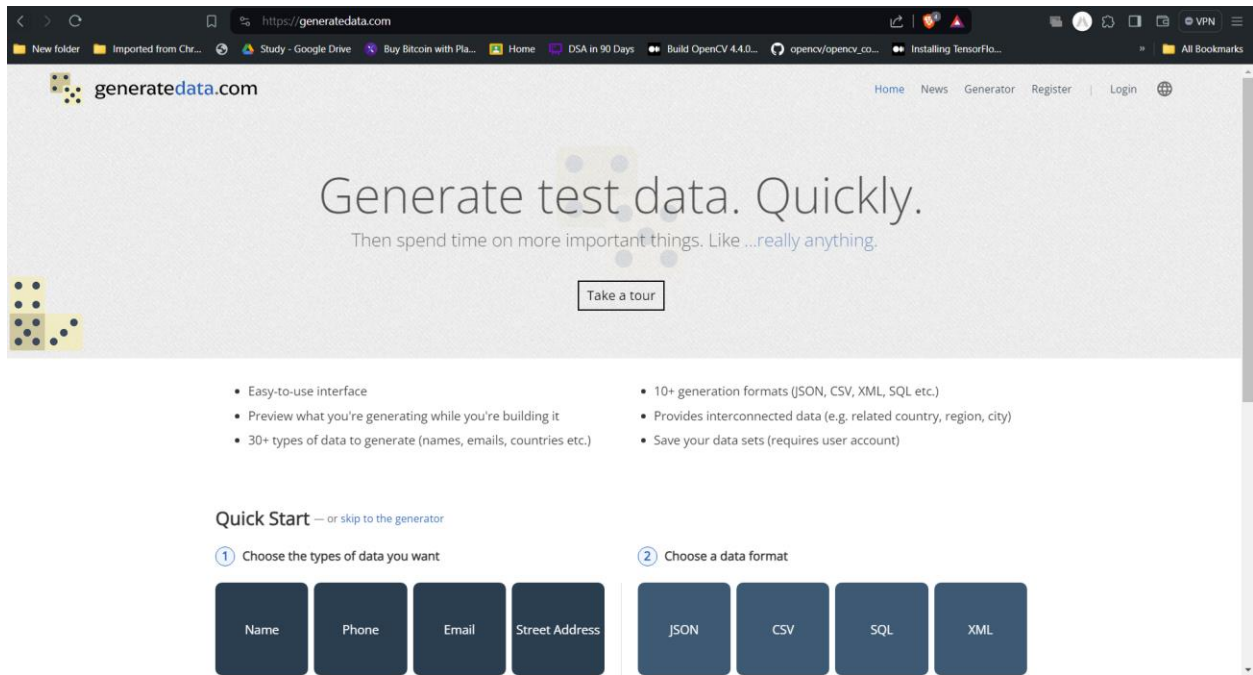
Validate the checkout process and simulate payment transactions.

Order Management:

Retrieve transaction records from the dataset and validate order details.

Verify order status updates, including confirmation, shipping, and delivery.

ScreenShots :



Quick Start — or skip to the generator

① Choose the types of data you want


Name	Phone	Email	Street Address
Postal/Zip	Region	Country	List
Word	Number	Currency	Alphanumeric

② Choose a data format

JSON	CSV	SQL	XML
HTML	Javascript	Typescript	PHP
Perl	C#	Ruby	Python

③ Generate!

About

 New Data Set

Home News Generator Register Login

#	Data Type	Examples	Options
1	Email	email	No examples available. SOURCE: RANDOM
2	Phone / Fax	phone	North America 1-XXX-XXX-XXXX (XXX) XXX-XXXX
3	Country	country	No examples available. ALL COUNTRY PLUGINS
4	Names	name	Alex Smith Name Surname
5	Street Address	address	No examples available. No options available.
6	Currency	currency	\$0.00 -> \$100.00 0.00 100.00 SETTINGS

CSV

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1 email,phone,country,name,address,currency,number,range
2 tincidunt.congue@aol.org,(424) 324-4813,Ireland,Chadwick Sharpe,580-3822 Sodales St.,$17.79,6
3 pharetra.ut@yahoo.ca,(777) 168-4433,Turkey,Darrel Galloway,Ap 8610-9858 Vestibulum Ave,$95.83,9
4 nam@icloud.edu,(183) 328-9672,Peru,Burke Wooten,"P.O. Box 373, 3166 Sagittis Rd.",$72.75,4
5 seaper@outlook.org,1 446-666-4851,Turkey,Madassah House,Ap 8174-7264 Lectur. St.,$83.93,4
6 vitae.aliquet@google.com,(222) 858-7812,Norway,Tayme Thomas,"P.O. Box 520, 3839 Nus. Av.",$13.84,8
7
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Help Contact

GRID PREVIEW SAVE GENERATE

