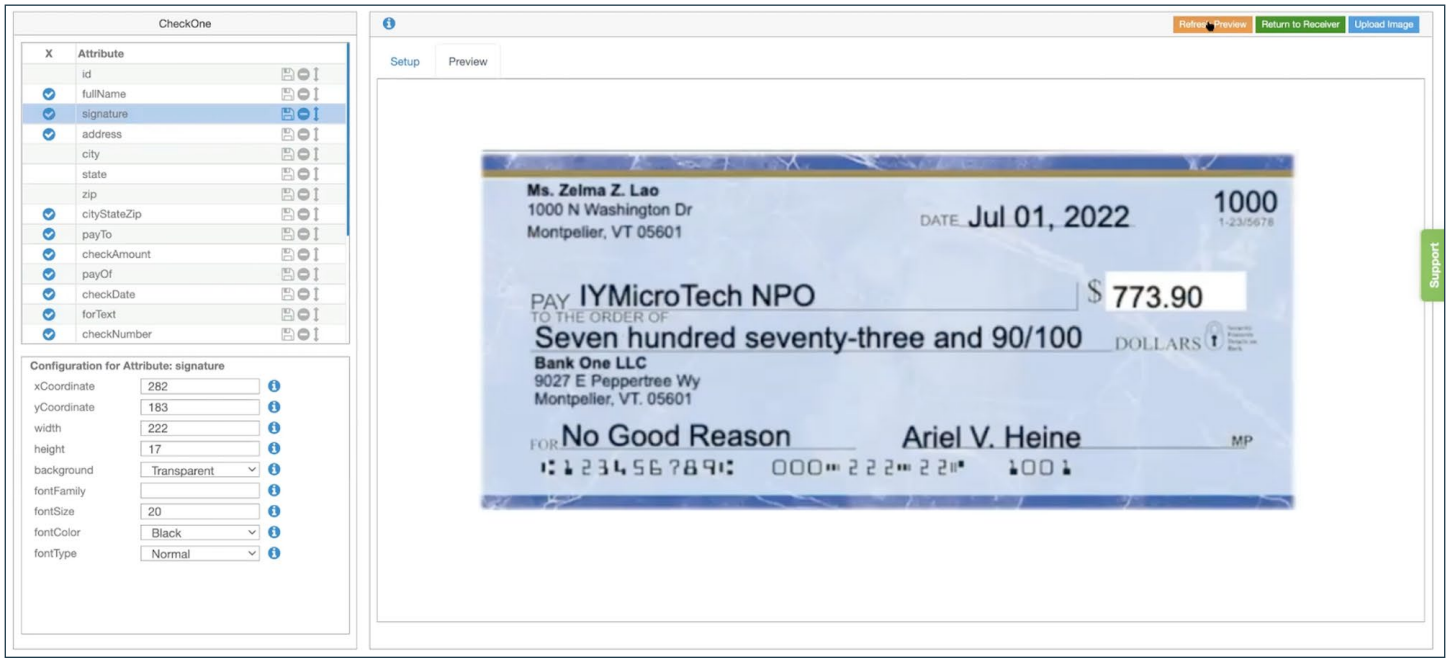
GenRocket

SOLUTION SPOTLIGHT

SYNTHETICALLY GENERATED FORM DATA

Forms are ubiquitous in the financial, healthcare, and health insurance industries. Customers and patients must complete numerous forms to receive services; companies must complete forms to conduct business with other companies, state and federal tax authorities, and other legal entities. In these heavily regulated fields, digital forms are required in many instances, and must accurately capture pertinent information.

But forms are more than what we fill out when we first do business with a company. They are also part of our daily transactional life. Bank checks, identification cards, and driver's licenses represent the typical forms used in everyday life that must be read by OCR systems and the data ingested by numerous applications for processing and storage.



Testing the information systems that process form data can be challenging. Negative testing is especially difficult to conduct but essential for testing the way these systems handle bad or missing data values on the form. Here are some negative testing use cases that are critically important to test:

- Invalid dates
- Incorrect money values
- Missing dates
- Missing signatures
- Missing or mismatched money values

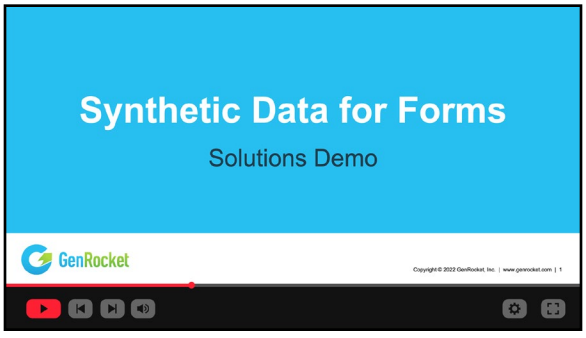
Provisioning test data for simulating these use cases is difficult and many companies lack the test data volume and variety to conduct thorough testing within acceptable cycle times. The process of manually creating form data or provisioning production data for form testing is very slow and can lead to protracted project timelines.

Fortunately, GenRocket's synthetically generated form data not only provides sufficient volume and variety, it adds the additional ability to handle unique and challenging use cases.

GenRocket: Synthetic Self-Service Test Data Solution

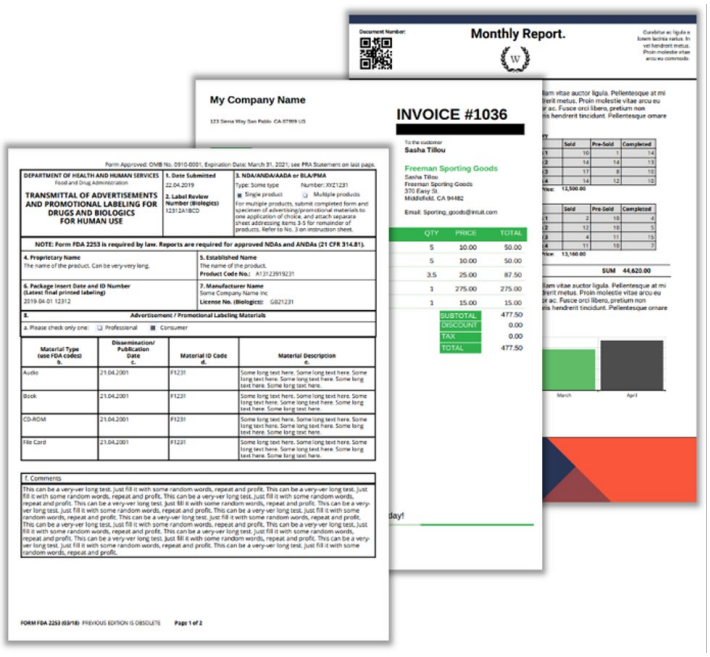
Using the GenRocket platform, dev and test engineers can combine any form image with an unlimited variety of test data values for positive, negative, combinatorial, and edge case testing. Simulating non-data-related test cases like angled or partial check images, unusual ink colors, and difficult to read handwriting are all easy to simulate with GenRocket. And stress testing the application under test is as simple as setting the loop count to generate millions of images or more, using our high-performance, self-service platform.

For smaller form factors, like bank checks, W2 forms and pay stubs, GenRocket supplies an *Image Template Receiver* to merge a GIF, JPG, or PNG image file with synthetic data for testing with synthetic form data as in the example above.



To see a video demonstration of how GenRocket solved the synthetic test data challenge for bank checks (as illustrated in the images above), click the link below.

WATCH THE DEMONSTRATION VIDEO



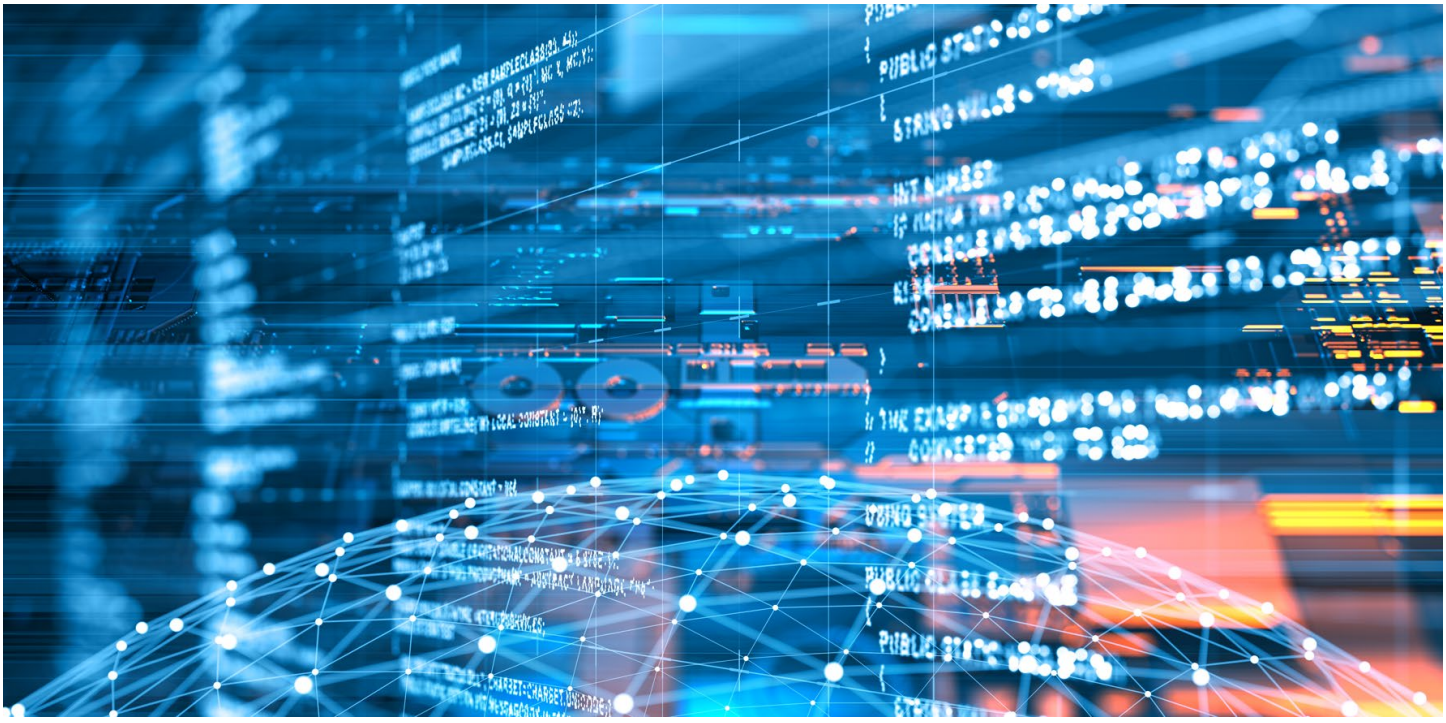
For large and multiple-page forms, a special GenRocket receiver reads a JSON file and makes a call to a 3rd party tool (such as PDF Generator API) to create a PDF using a predefined template. GenRocket merges the PDF template with synthetically generated data.

Use this approach for testing invoices, monthly reports, certificates, and other complex form-related documents.

Other tools can generate fingerprints, faces, or other images based on data. GenRocket can interface with those tools and feed them with synthetic data. GenRocket supplies the data, and the tool uses the data to create the image or PDF.

GenRocket's synthetic self-service test data solution for synthetic forms offers incredible efficiency at producing the volume and variety of synthetic form data needed for comprehensive testing at speed.

- ✔ Easily generates thousands of unique data sets meeting your test specifications
- ✔ Lightning-fast data generation compared to manual data or masked production data
- ✔ Generates data for multiple scenarios, taking into account background color, mapping X and Y coordinates for fields so readers can find the data, and more.
- ✔ 100% secure – no personally identifiable information is ever used



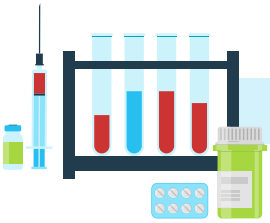
We can produce the **data volume**, **data variety**, and **data format** that you need, in a fraction of the time it takes to manually create test data or provision masked production data.

A great choice for industries with strict standards of privacy, compliance, and accuracy.

Financial Services

Healthcare

Banking



Pharmaceuticals

Insurance

10,000 Samples in Two and a Half Minutes

One of our clients, a large global bank, needed to produce test data to test a system that would ingest bank checks through OCR recognition. Copying and masking production data enabled them to generate approximately **five to six test files per day.** With GenRocket's Synthetic Test Data Solution, they were able to create ***10,000 samples in 2 ½ minutes.***

Ready to get started? Learn more about GenRocket's Synthetic Test Data Automation enterprise solution.

REQUEST A PERSONALIZED DEMO