



SOLUTION BRIEF

HYPERTEST FOR FINTECH



The fintech ecosystem is loaded with disruptive companies, though perhaps none more so than those in the lending sector. The mortgage industry, for example, is an industry that can greatly benefit from new lending technology. A new breed of fintech-powered mortgage companies are executing responsible and transparent loan agreements at scale – in effect, personalized loans that are vastly different than the one-size-fits-all breed that proved so problematic a decade ago. These companies offer loans after a rigorous KYC process of analyzing the applicant's credibility across different parameters. Any negligence of due diligence can lead to a discrepancy in the loan approval and disbursement process.

Let's consider this scenario:

A user is on the loan application screen where he fills in his details through an interactive form. He answers the questions:

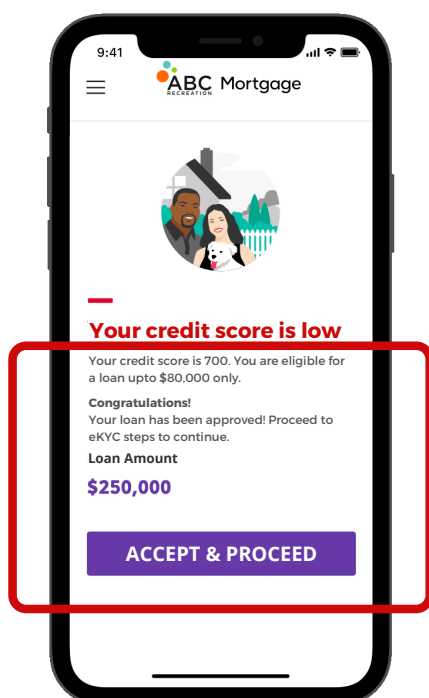
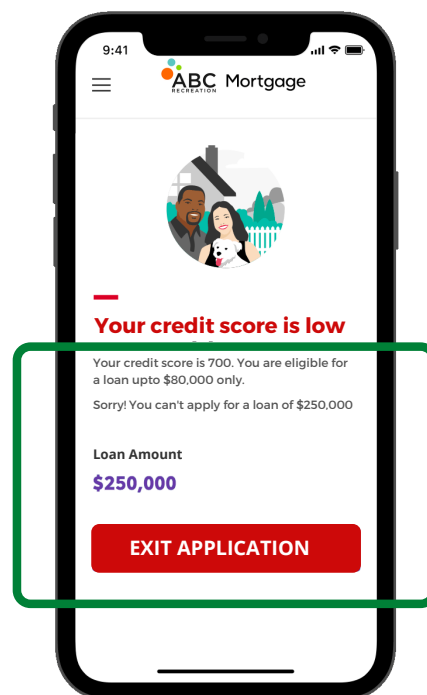
1. What is your name? **GAURAV GUPTA**
2. What is your email? **gauravgupta23@gmail.com**
3. What's your PAN no? **XXYYZ0000Z**
4. How much loan do you want? **\$250,000**



The app shows the application status as 'Processing', then 'Getting credit credit score', and finally 'Sending loan request for approval'. After this process, the application should return the verdict of the application

Expected Output:

Based on the user's credit score the application would return an 'Approved' or 'Rejected' status for the loan. Since the user's credit score is low, the loan application should have been rejected.



Actual Output:

Since the user's credit score is low, the loan application should have been rejected. However, due to an error in the system, users who were not eligible for a \$250K loan can now get one.

What type of error is this?

VALUE MODIFIED ERROR

Check out the table below to know more about the Value Modified error type



SEVERITY	Very High
WHAT DOES THIS ERROR MEAN?	Contract schema remains similar, but data changes
EXAMPLE	The app approves a loan amount which is higher than the allowed limit for a user despite having a low credit score
WHY DOES THIS USUALLY HAPPEN?	<ol style="list-style-type: none">1. Current timestamp dependent data (autoignored by HyperTest in omst cases, can be ignored safely)2. Bug in new implementation3. Data type changes in schema
POSSIBLE NEGATIVE IMPACTS	<ol style="list-style-type: none">1. Incorrect data would be reported to upstream/client app due to flawed business logic2. Upstream/client app can also crash if modified data is out of bounds
SUGGESTED ACTIONS FOR WARRANTED CHANGE	<ol style="list-style-type: none">1. Verify new business logic2. Check if upstream/client app is handling new data types properly. Eg: If float point numbers are sent to a client which earlier catered to integers, client would crash or drop some data leading to data issues



WHAT KIND OF API ERRORS CAN HYPERTEST CATCH ?

List of high
severity errors
HyperTest will
never miss

CONTENT TYPE CHANGES

Content type
header has
changed in the
new version

KEY REMOVED

Contract failure
with removal of
Key in the
response object

DATA TYPE CHANGE

Contract schema
remains similar, but
data type changes
i.e. integer to string
etc

ARRAY ORDER CHANGE

Order of data
received is
different

VALUE MODIFIED

Contract schema
remains similar,
but data changes

SLOWENESS IN APIs

Change in Latency
or Bandwidth wrt
stable app

SENSITIVE DATA EXPOSURE

Leakage of critical
user details in APIs
that shouldn't

STATUS CODE CHANGE

Fatal crashes with
status code failures
400s, 500s etc



SCAN TO SCHEDULE A DEMO WITH OUR TEAM