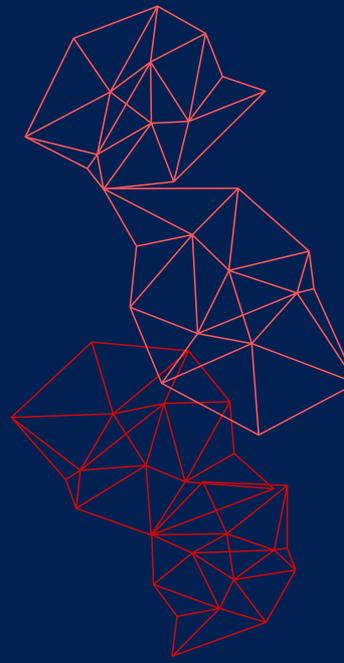


**SOLUTION BRIEF**

# **HYPERTEST FOR SAAS COMPANIES**

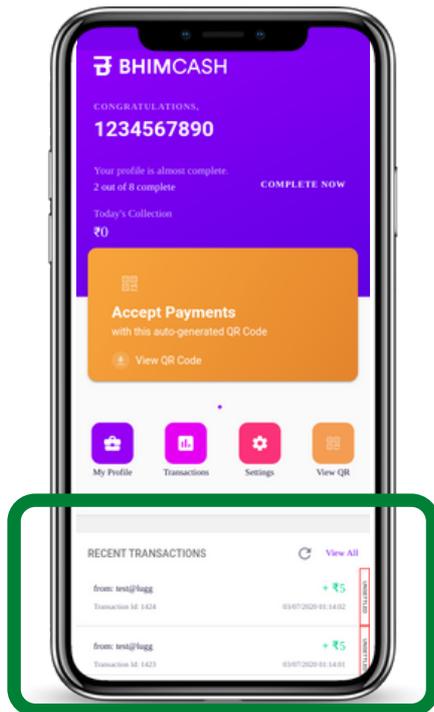


There are more than 25,000 SaaS companies out there. The global SaaS market is expected to grow from USD 130.69 billion in 2021 to USD 716.52 billion in 2028 at a CAGR of 27.5% during the 2021-2028 period. With specialised SaaS for different industries and business functions, 80% of businesses already use at least one SaaS application.

Most applications are built of micro services and have many different flows. For those relying on manual testing methods, it is often possible to miss out on covering critical flows, thereby leaking a bug into production i.e. the live version used by customers. For financial SaaS applications, the stakes are even higher, so there is no scope for error.

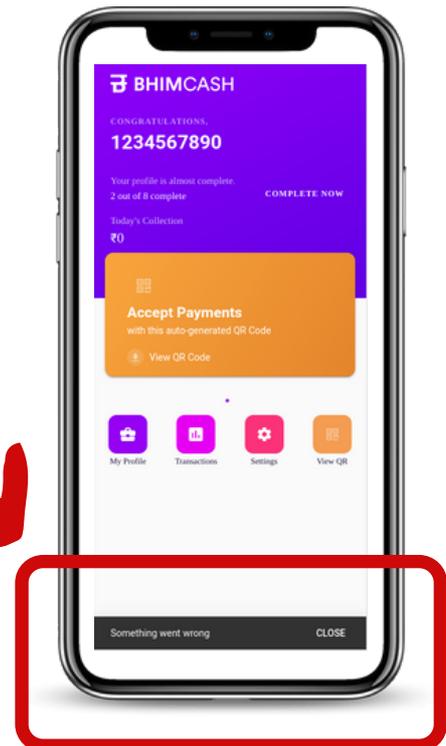
Imagine this scenario:

A user logs into their payments application. They navigate through the platform and land onto the transactions page to view the recent transactions. The user would see something like this



## Expected Output:

The user should have been able to see a list of all their recent transactions on this screen.



## Actual Output:

Instead, the screen does not list the recent transactions and prompts that something went wrong.

**HyperTest caught this bug for one of India's largest payment applications pre-release and saved this app the embarrassment of not reporting any transactions data.**

## What type of **error** is this?

### STATUS CODE CHANGE ERROR

Check out the table below to know more about the a Status Code Change error.

SEVERITY	<b>Very High</b>
WHAT DOES THIS ERROR MEAN?	Fatal crash in the app reflected by a status code change
EXAMPLE	Old app is returning 200, and new app its returning 4xx or 5xx
WHY DOES THIS USUALLY HAPPEN?	<ol style="list-style-type: none"> <li>1. Infra problems: Service/dowstream is down</li> <li>2. Authentication logic is broken (for 401 errors)</li> <li>3. Rate limits is exceeded by HyperTest (for 429)</li> <li>4. Theres a bug in the service</li> <li>5. Non idempotent action is being performed without making necessary configurations in HyperTest first</li> </ol>
POSSIBLE NEGATIVE IMPACTS	Upsteam/Client App would crash. If exceptions are handled, upstream/client app may throw a generic exception to the user. They wont be able to perform the action that they meant to do
SUGGESTED ACTIONS FOR WARRANTED CHANGE	<ol style="list-style-type: none"> <li>1. If this happens even without a code change, it must be a non idempotent request. Handle this the "non-idempotency" by using HyperTest middlewares</li> <li>2. If ratelimit is causing problem, add HyperTest IP to the whitelist for ratelimits</li> <li>3. If infra related issue, debug and get that fixed</li> </ol>

# WHAT KIND OF API ERRORS HYPERTEST CATCHES AND WHAT DO THEY MEAN?

List of high severity errors HyperTest will never miss

## CONTENT TYPE CHANGES

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Content type header has changed in the new version

## KEY REMOVED

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Contract failure with removal of Key in the response object

## DATA TYPE CHANGE

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

## ARRAY ORDER CHANGE

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Order of data received is different

## VALUE MODIFIED

---

Contract schema remains similar, but data changes

## SLOWENESS IN APIs

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Change in Latency or Bandwidth wrt stable app

## SENSITIVE DATA EXPOSURE

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Leakage of critical user details in APIs that shouldn't

## STATUS CODE CHANGE

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



SCAN TO SCHEDULE A DEMO WITH OUR TEAM