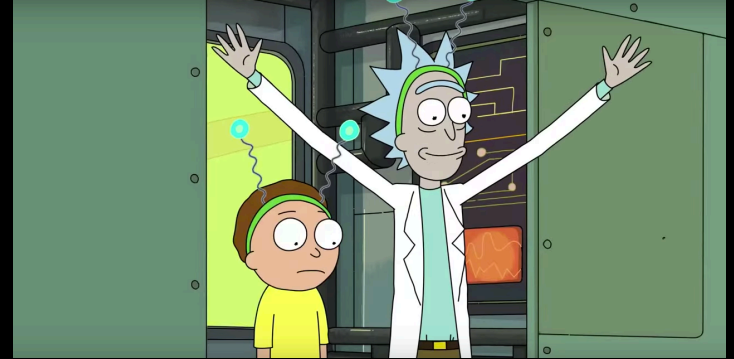


# Authorization Bypass

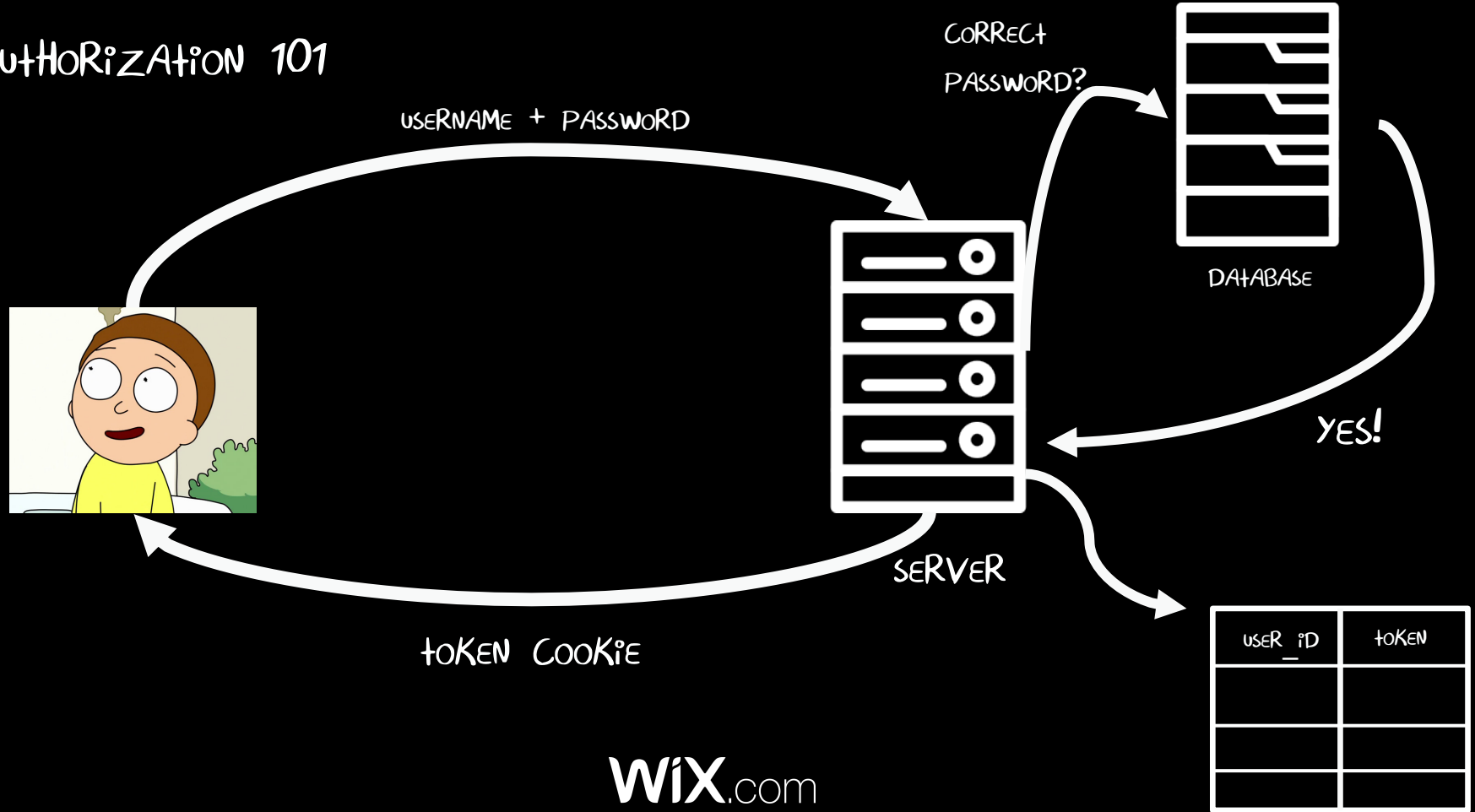
How (AND why) your QA team can save the day

# GREETINGS!

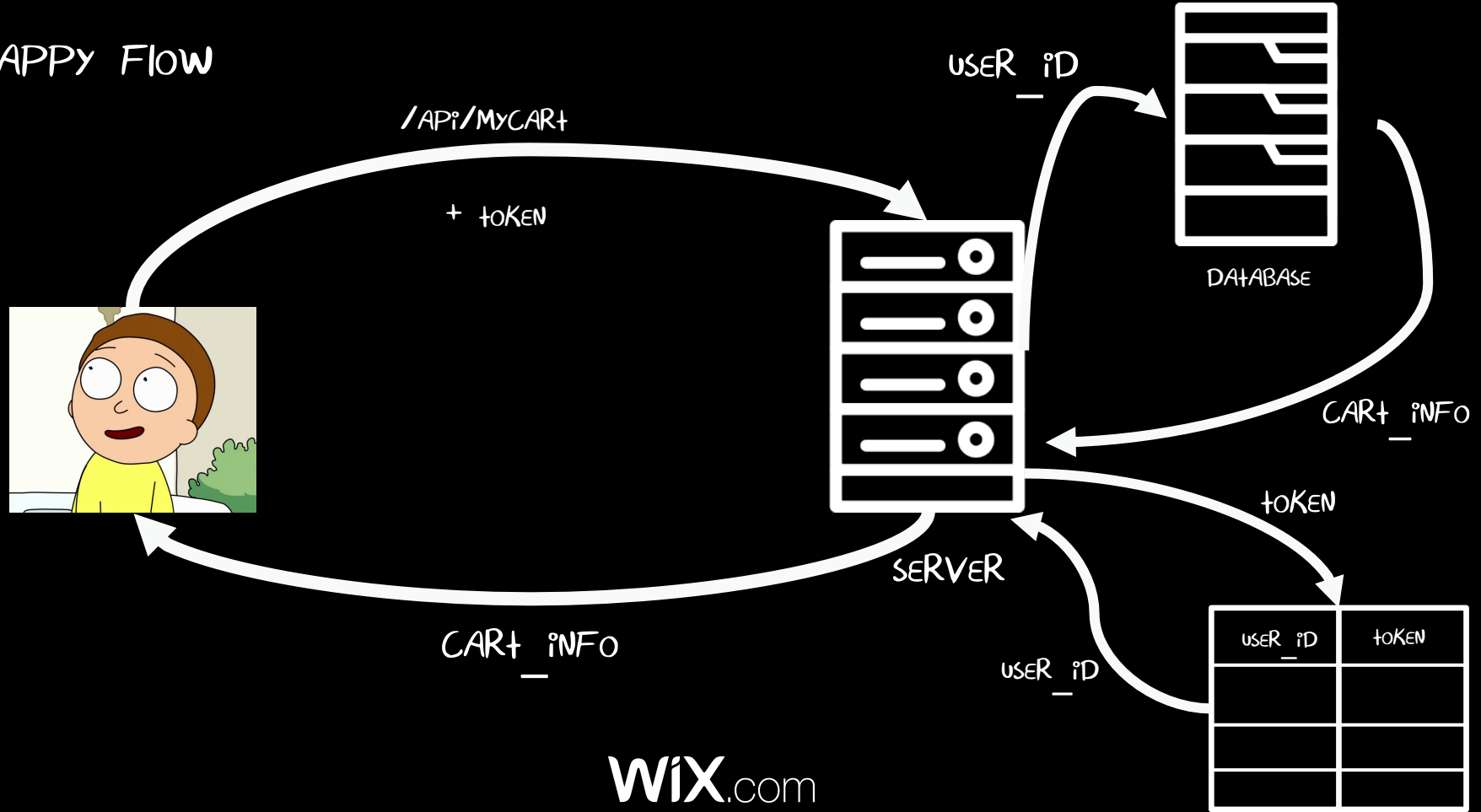
- GILAD KATZIR
- SECURITY RESEARCHER AT WIX.COM
- LIVE IN TEL-AVIV
- PII FANATIC, STATISTICS ENTHUSIASTIC, STRONG BELIEVER IN QA SECURITY



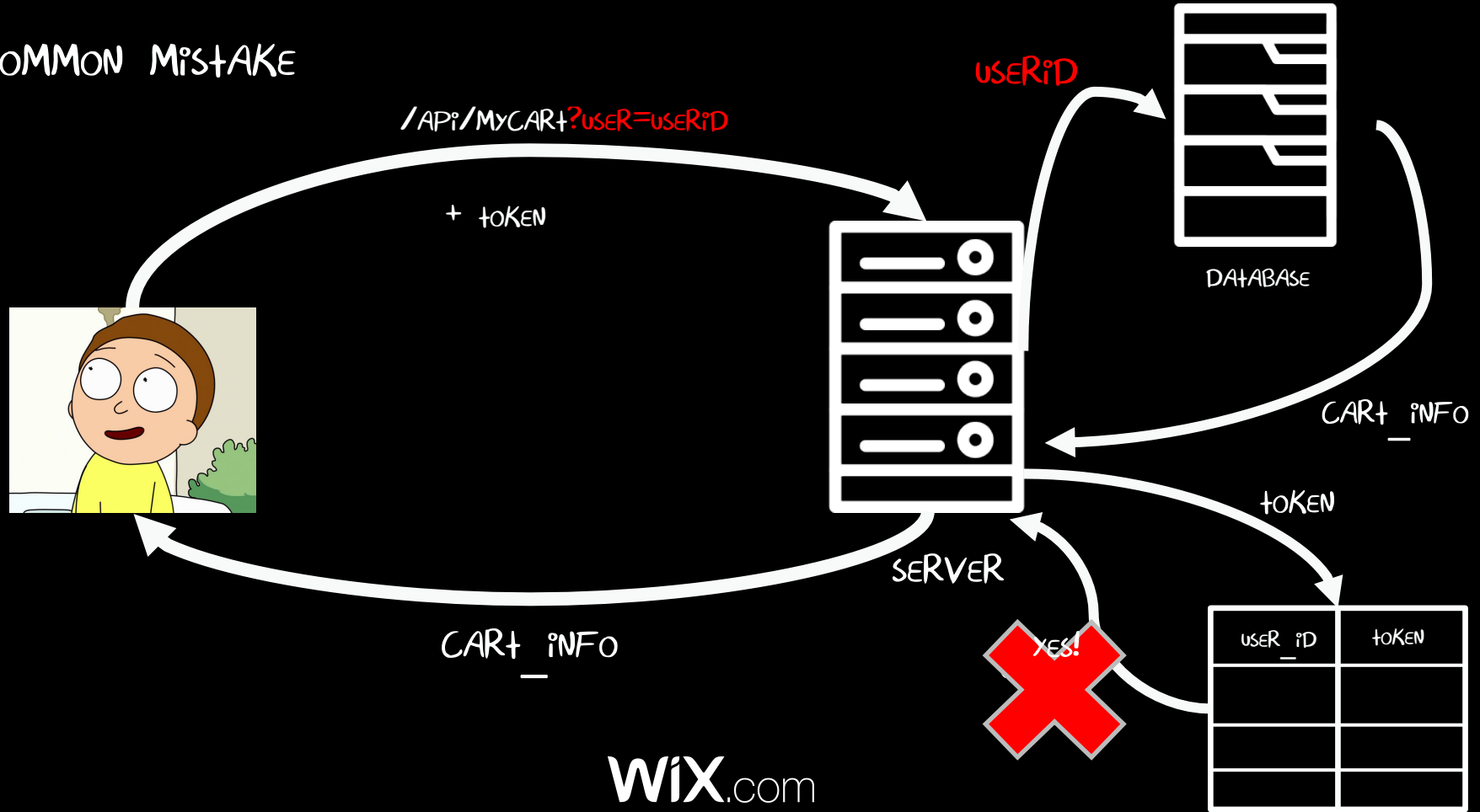
# AuthORIZATION 101



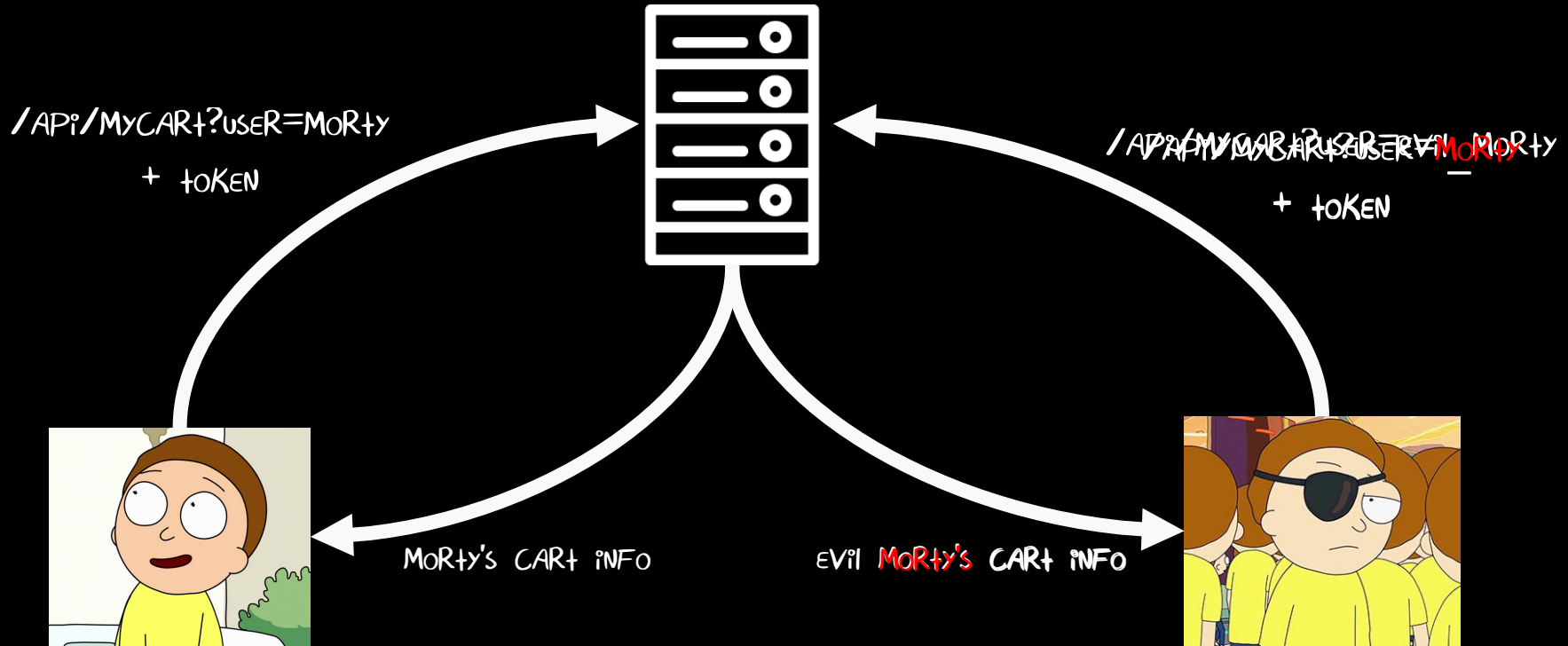
# HAPPY FLOW



## COMMON MISTAKE



# EASY EXPLOIT

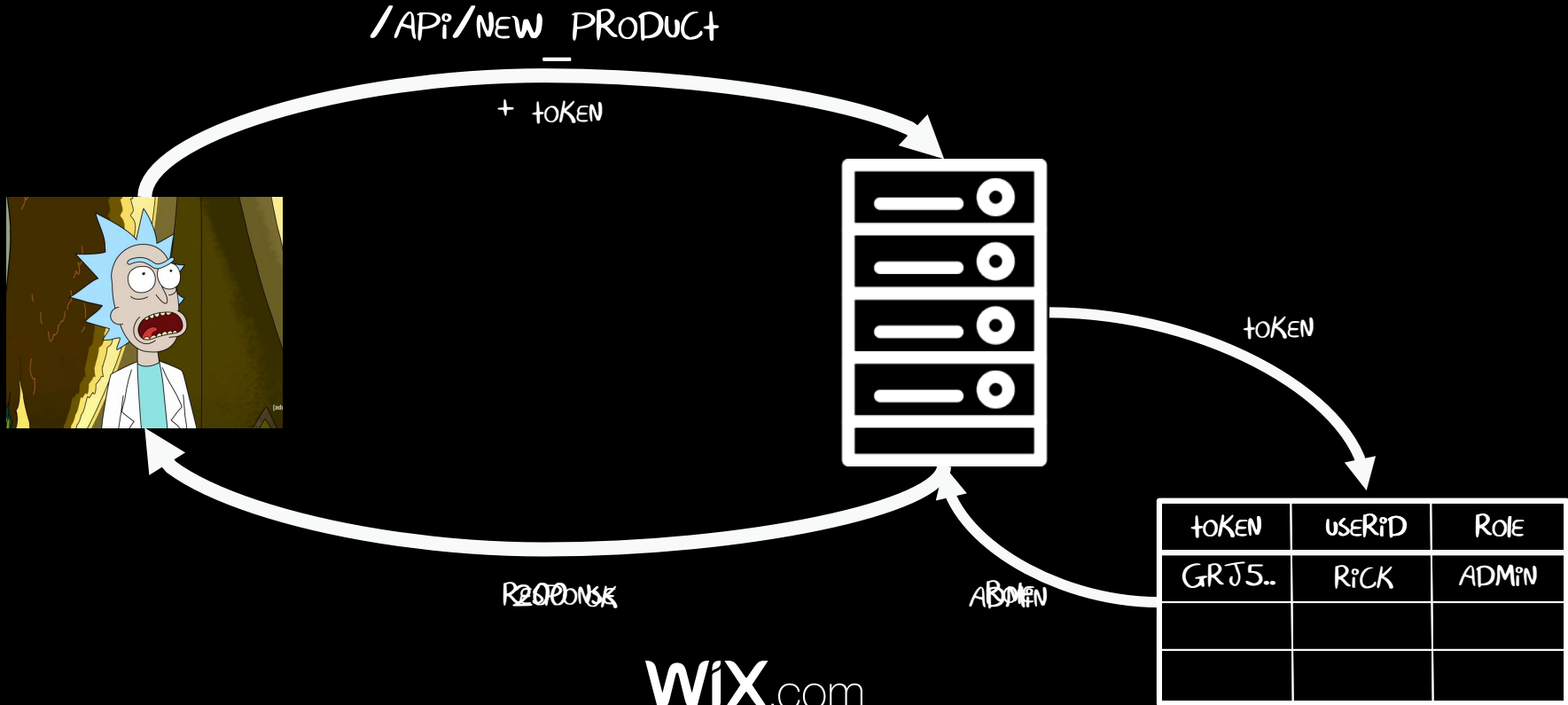


## Let's start with a demo...



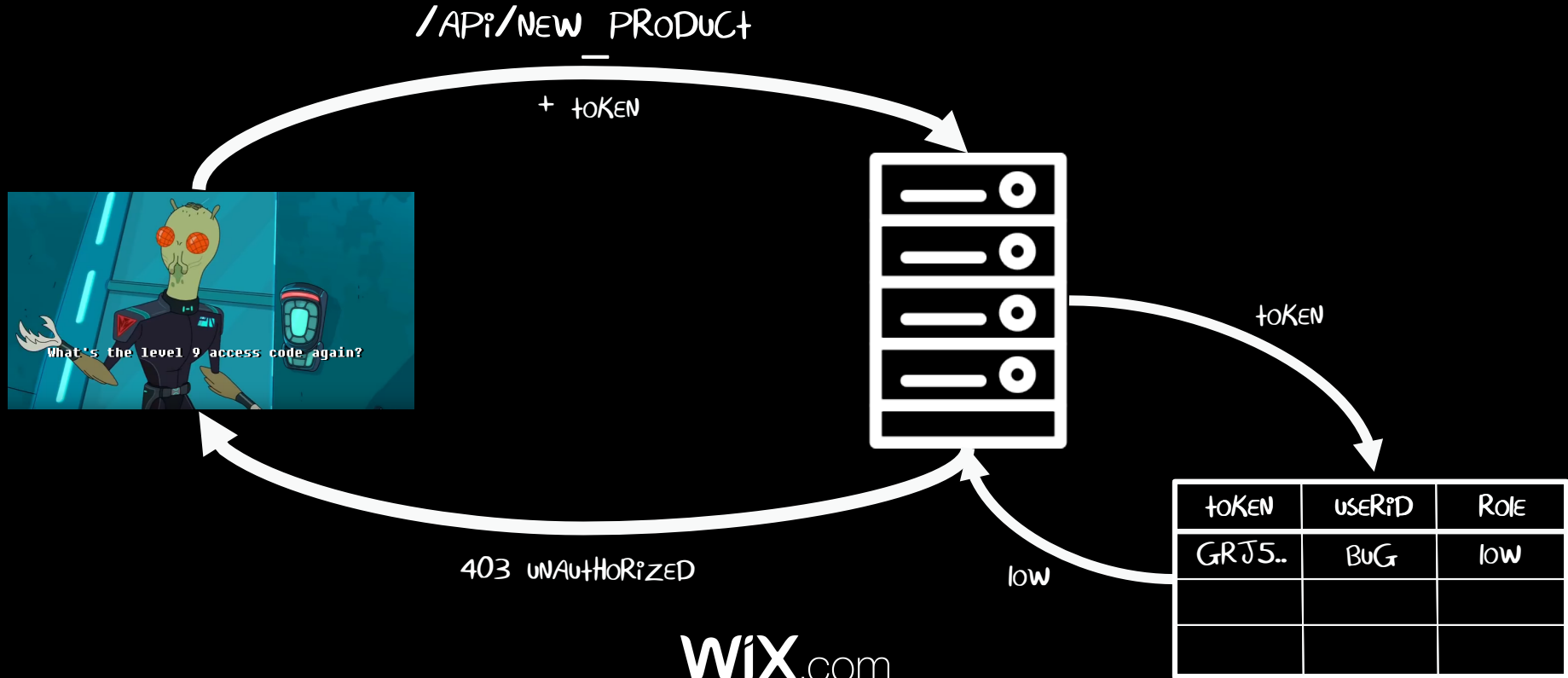
**wix.com**

# ACCESS CONTROL 101

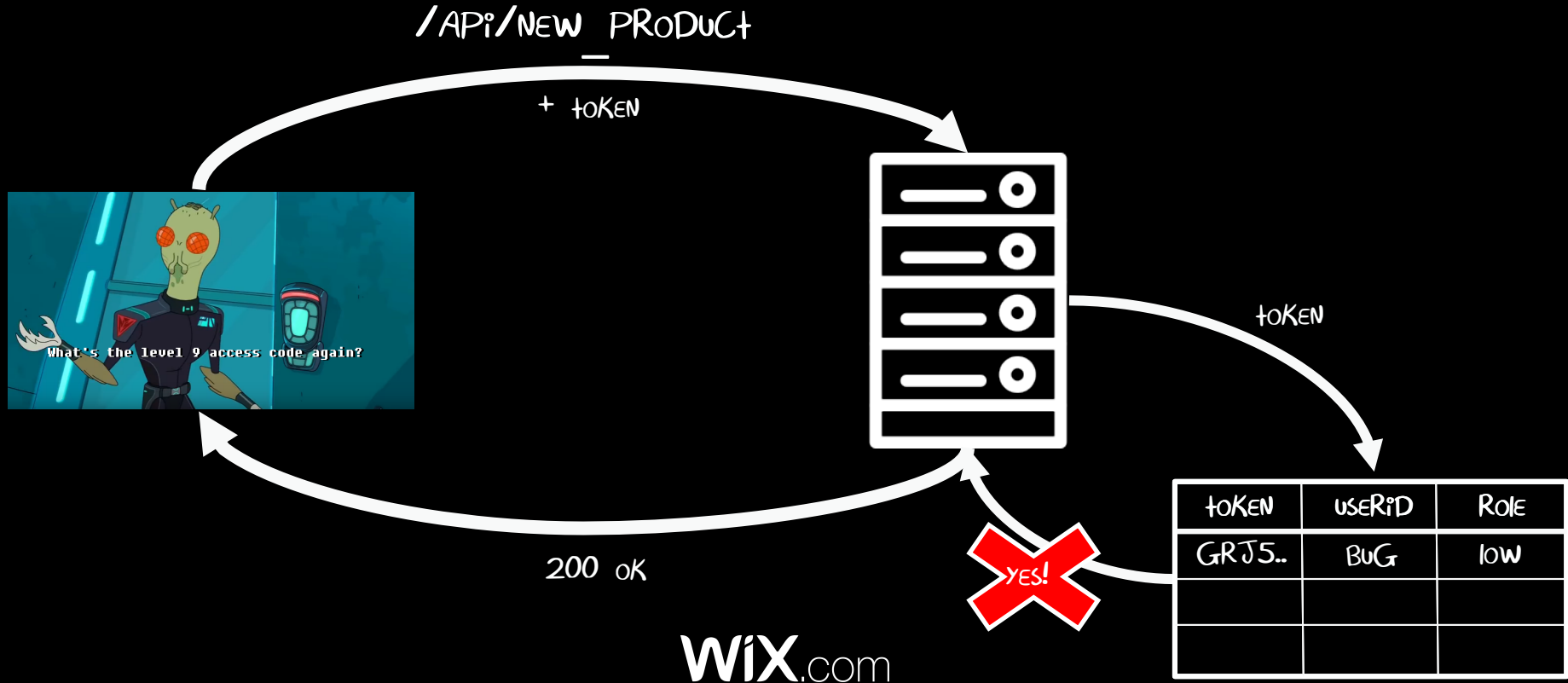




# ACCESS CONTROL 101

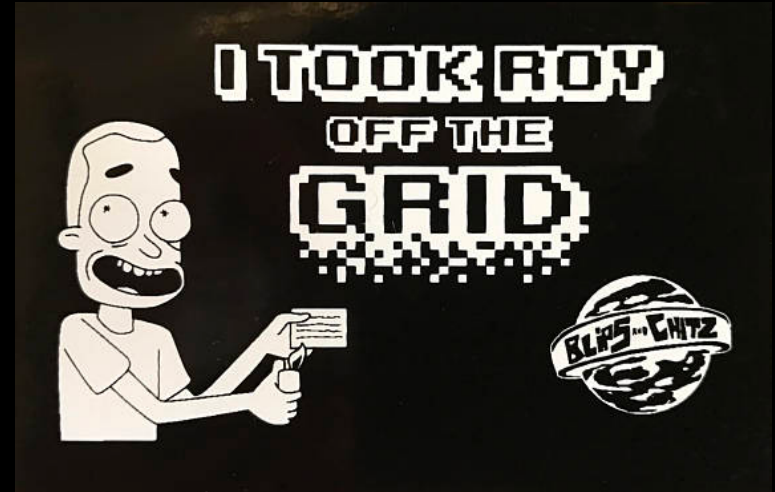


# FORCEFUL BROWSING



## ALL SHAPES AND SIZES

- PARAMETER TAMPERING
- FORCEFUL BROWSING
- FORGOTTEN/HIDDEN CONTENT
  - DEFAULT COMPONENTS
  - URI GUESSING
- HORIZONTAL/VERTICAL



NO PROBLEM — OUR PROGRAMMERS ARE GREAT!

- THIS IS BASIC, SHOULD BE EASY
- THERE IS ALWAYS THIS ONE ENDPOINT THAT WAS MISSED
- MICROSERVICES ARE THE WORST!
  - DOZENS OF REQUESTS, SINGLE BUTTON CLICK.
  - RESTFUL API - DIFFERENT RESTRICTION FOR DIFFERENT METHOD (PATCH, UPDATE, PUT, GET).

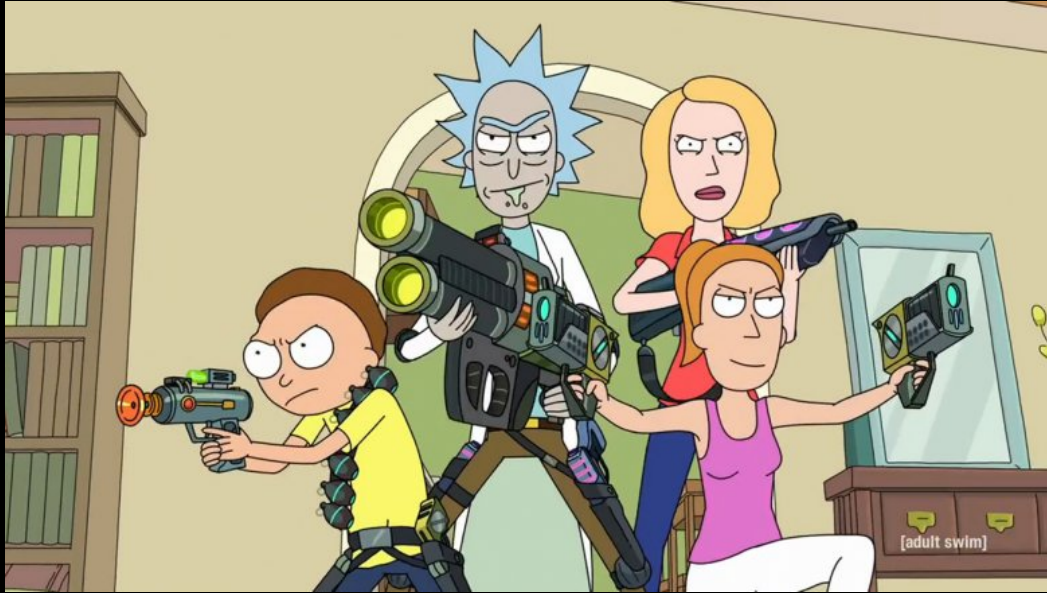


SO TO SUM THINGS UP

- ~x1000 OF ENDPOINTS.
- SPECIFIC BUSINESS LOGIC FOR EACH ENDPOINT
- MULTIPLE ROLES/TENANTS
- ALL TESTS NEED TO BE MANUAL
- AND...

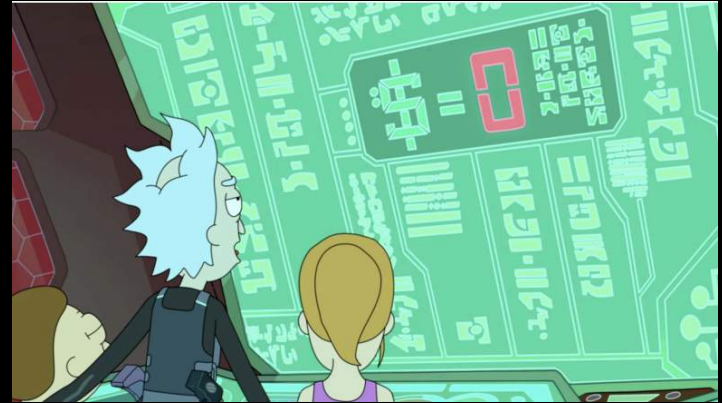


YOU ONLY HAVE 4 SECURITY ANALYSTS

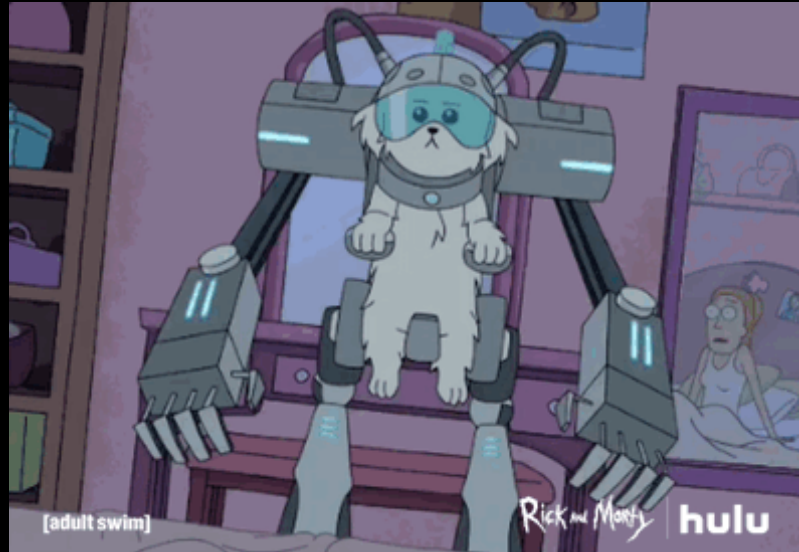


# QA to the RESCUE!

- PURE BUSINESS LOGIC BUG
- INTIMATE KNOWLEDGE
- MANUALLY TESTING
- NO NEED FOR SPECIAL SECURITY SKILLS
- „QUALITY ASSURANCE“ DEFINITION
- WE STILL HAVE ONE PROBLEM THOUGH...



# introducing authorize



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## My two CENTS

- SECURITY IS EVERYONE'S JOB
- SOMETIMES IT ONLY TAKES ONE SMALL MISTAKE



# Questions?

