ARKANSAS JUDICIARY

Quality Engineering
Building a Court Management system from the ground up

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AR AOC - QUALITY ENGINEERING

QE - Core Principals

Test Strategy: Automation

Test Pyramid

QE Tools and Software

QA Then vs QE Now

QE - CORE PRINCIPALS

Whole Team Ownership

Focus on Quality
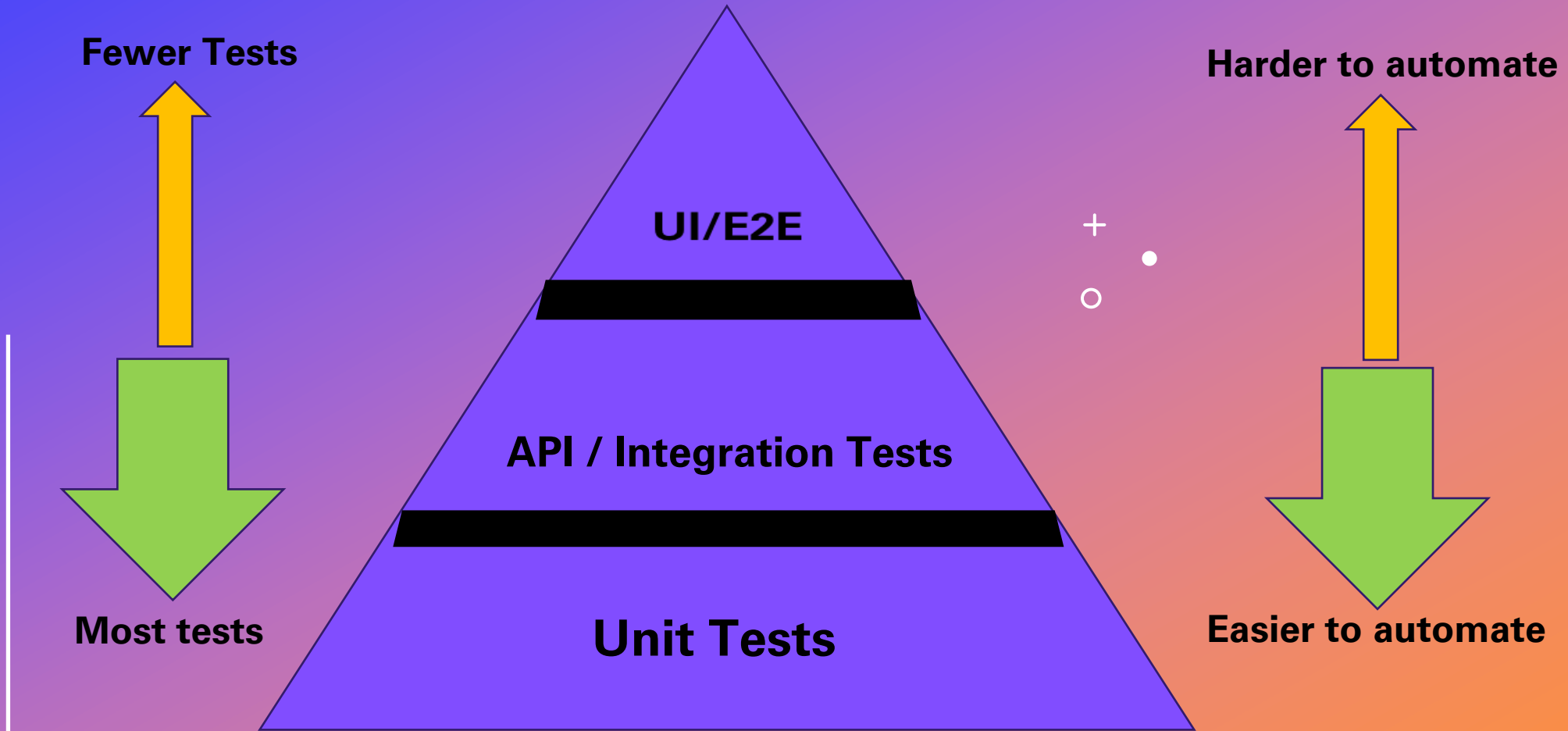
**Automation critical
for quality and velocity**

**Close proximity between
development and test activities**

Test Strategy: Automation
The Test Pyramid

Fewer Tests

Most tests

Harder to automate

Easier to automate

UI/E2E

API / Integration Tests

Unit Tests

QE Tools & Software

Frameworks

- API – xUnit
- FE – Playwright with typescript
- FE – React Testing Library with jest

Tools

- API
  - Postman
  - Swagger
- Accessibility
  - ANDI
  - Axe DevTools
- Browser/Responsiveness
  - SauceLabs
- Test email generator
  - MailSlurp
- Static Code analysis
  - SonarLint
  - SonarQube

Quality Assurance THEN
&
Quality Engineering NOW

QA

- Test after all Development finished

- QA's responsible for all testing

- Gate keepers, only engaged in testing

- Mostly manual testing

- Few testing tools
  - Application
  - Toad
  - Excel

+ QE

- Testing is part of Sprint

- Story in Sprint is not finished until testing is finished

- Quality Engineers works together with Developers

- Whole team ownership of testing

- Plethora of tools/software for testing

AOC - QUALITY ENGINEERING

THANK YOU

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