

# IS THE TESTING ROLE RELEVANT?

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## Who are we



Sriratna (Ratna) Josyula



Jonathan Li On Wing

# JESSIE

The story of a software test professional

Jessie

**Uncertain** of the future

Is her job in **danger**?

**What is the future** of the testing role?

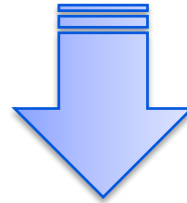
# WHY ARE WE SEEING THIS CHANGE

The transformation in the testing role

# Evolution of Testing

Agile methodologies have pushed for **one team**

**Teams are accountable** for the quality



Separation between developers and testers are **grey**



Some companies have **removed the testing role**

## Some Reasons Behind The Shift in Jessie's Role

- Shared Responsibility
- Speed
  - Late to market
  - Reduction in amount of resources dedicated to testing and testing efforts
- Developing Software as a Service (SaaS)
- Microservice Architecture
- Analytics and Telemetry
- Continuous Integration & Deployment
- Partial Roll Outs

# WHAT DOES THE FUTURE HOLD

The future of the testing role and how to stay relevant



# How does Jessie stay relevant

Leadership and Culture aspects

- **Evangelize** the importance of quality
- Instill a **quality mindset**
- Have a **growth mindset**
- Be a customer **advocate**

# How does Jessie stay relevant

Technology aspects

- Remember **Internet of Things**
- Do not forget **security testing**
- Get comfortable with software that can write software

# CONCLUSION

Things to take away

## Takeaways

- Be **adaptable** and **flexible** to change
- Treat technology as a **tool** and not a threat
- Focus on **quality** and not on testing
- Shift attitude from “Individual Contributor” to “**Leadership**”

Thank You!

Questions?  
Comments?

# Implications of Shared Testing

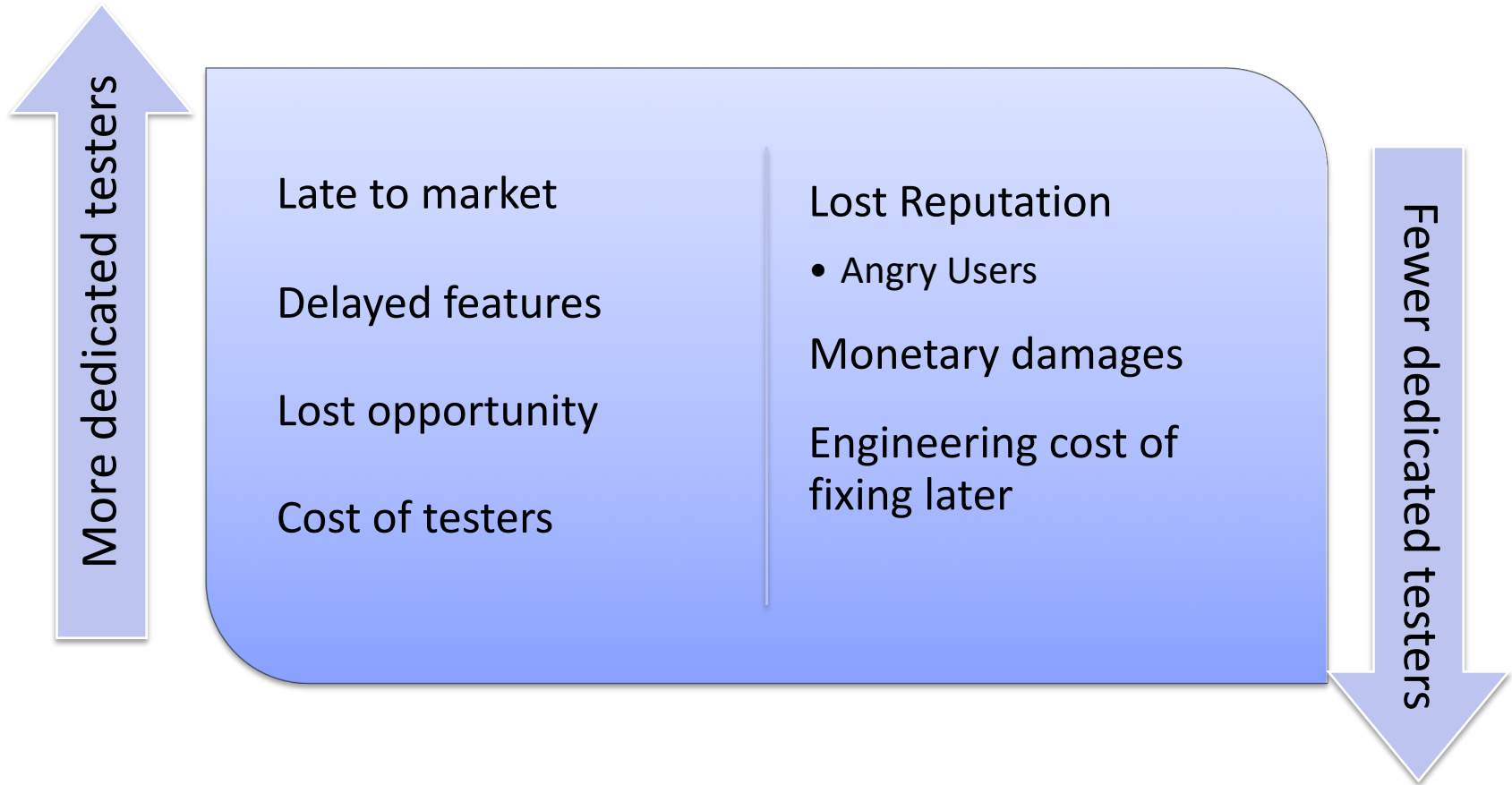
**Testing is deep** to the degree that it has a probability of finding **rare, subtle, or hidden problems** that matter.

Deep testing requires substantial **skill, effort, preparation, time, or tooling**, and **reliably** and **comprehensively** fulfills its mission.

By contrast, **shallow testing does not** require much skill, effort, preparation, time, or tooling, and cannot reliably and comprehensively fulfill its mission.

*Bach & Bolton, Rapid Software Testing*

# Cost associated to having dedicated testers



# History of Testing

Testers were generally in a **different group** responsible for **signing off** a piece of software written by software developers.

Testers performed the majority or **all the testing**. Which led to a **throw over the wall** mentality.



# How to stay relevant

- To not just test in the traditional way, but to be an **evangelist for quality**.
- **Coach and mentor** your team on how to think about quality in the tasks they do.
- Focus on **quality of customer experiences** and not just on code quality.
- Perform **risk assessment** on the product.
- Ask questions about the **testability of a system**.
- Push for **quality upstream**, right from planning for a new product or feature.
- Quality gates for when code is checked in.
  - Unit test coverage
- Automate the “right” things!
- Excessive UI automation is never good.
- Learning **new technologies** and seeing how it can help them in their role and beyond.
- **Analyze production issues** to find issues or commonalities, and determine if it is a bug.