

# ThoughtWorks®

*Build Quality In*

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## 测试策略与测试架构

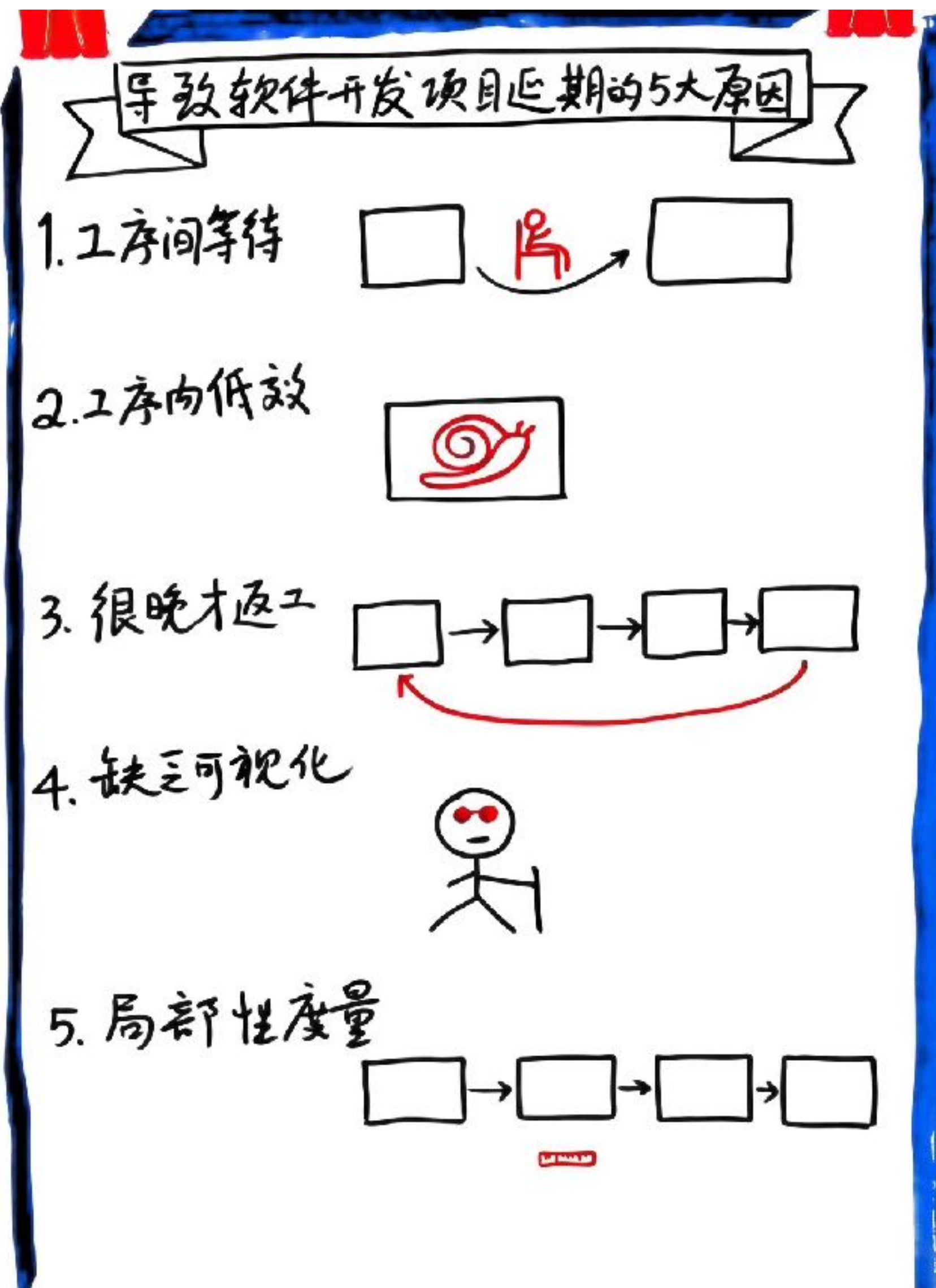
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## 问题

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- 为什么软件项目总是延期？
- 为什么软件质量总是不尽人意？

# 导致软件开发项目延期的五大原因





质量不是被测试出来的，同时，未经测试也不可能开发出有质量的软件。





# 测试分类

冒烟测试  
端到端测试  
集成测试  
系统测试  
压力测试  
U测试  
单元测试  
验收测试  
回归测试  
性能测试  
白盒测试  
契约测试  
API测试  
黑盒测试  
安全测试  
兼容性测试  
静态测试  
动态测试  
随机测试



# 测试策略



冒烟测试  
端到端测试  
系统测试  
压力测试  
UI测试  
集成测试  
静态测试  
单元测试  
验收测试  
回归测试  
性能测试  
白盒测试  
动态测试  
契约测试  
API测试  
黑盒测试  
安全测试  
兼容性测试

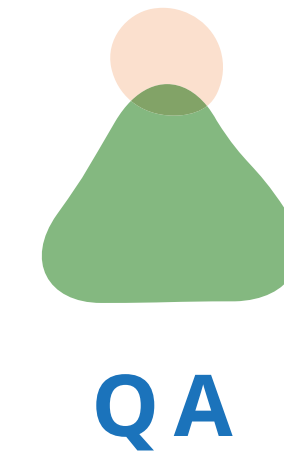
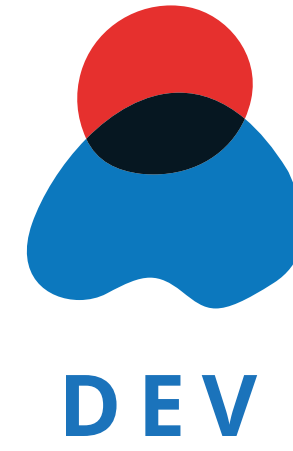
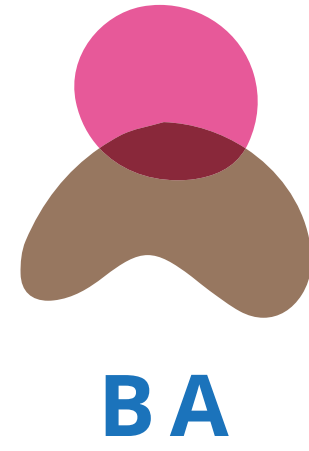
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**WHEN, WHO, WHAT**

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# 一个用户故事的旅程



BACKLOG

KICK OFF

IN DEV

DESK CHECK

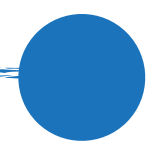
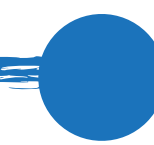
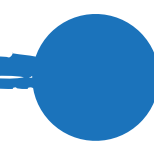
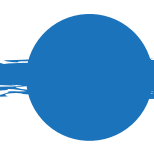
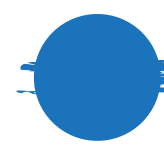
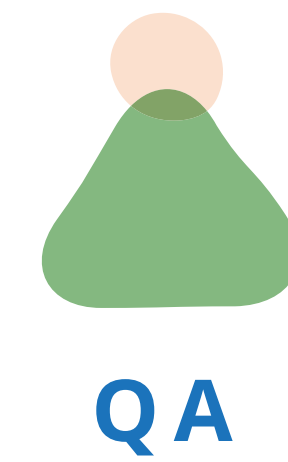
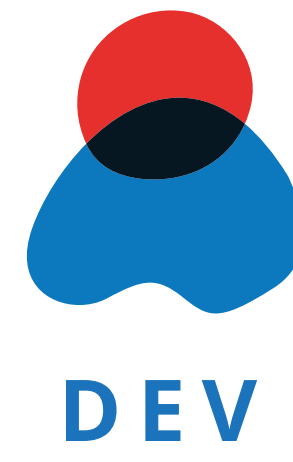
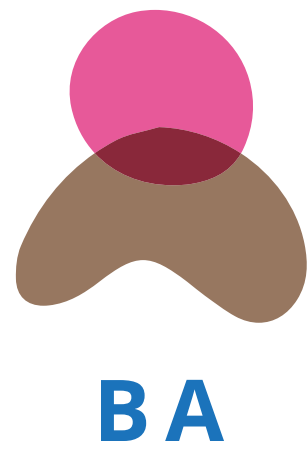
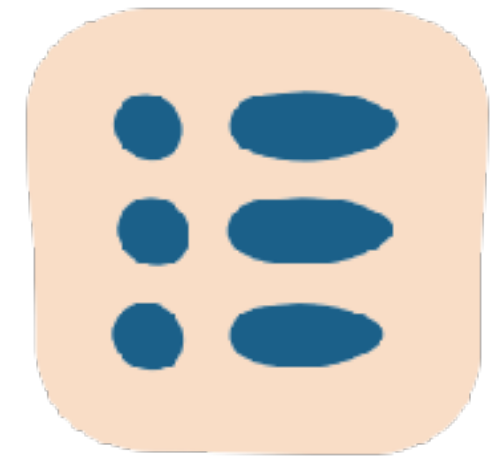
IN QA

DONE

RELEASE



# 一个用户故事的旅程



BACKLOG

KICK OFF

IN DEV

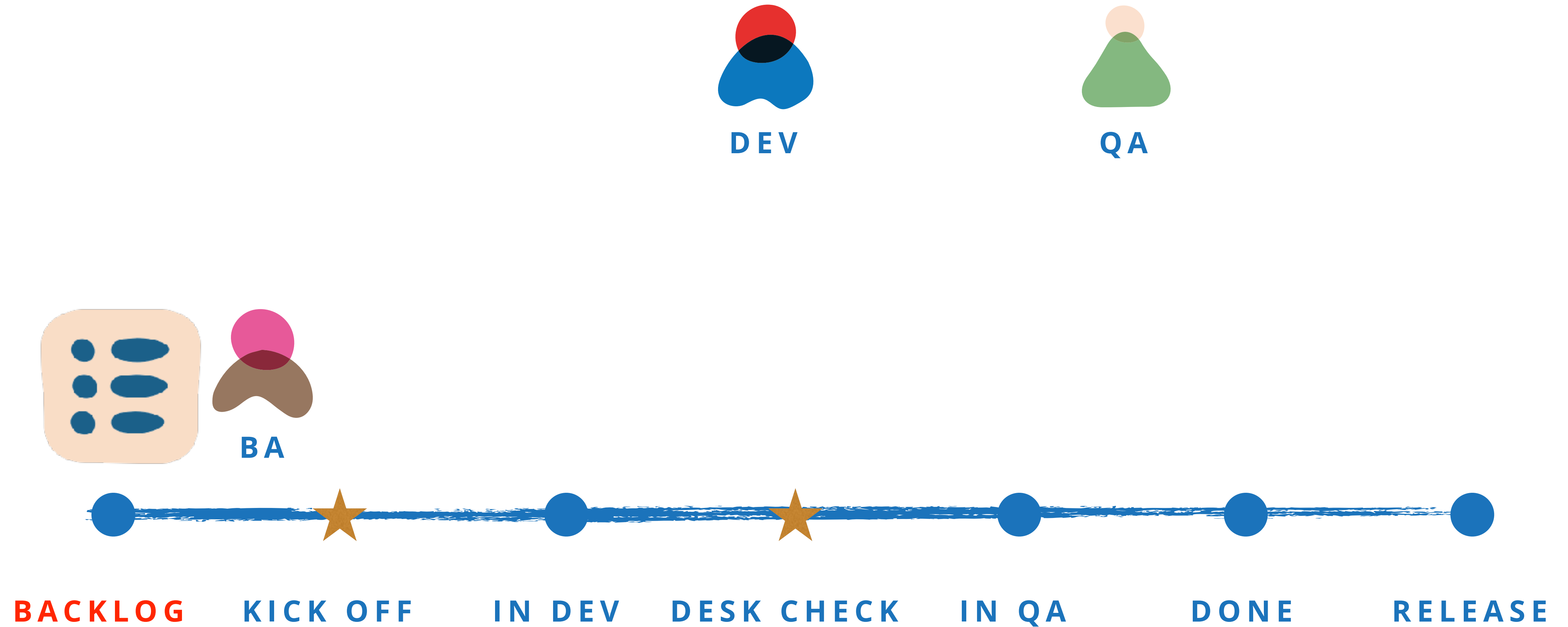
DESK CHECK

IN QA

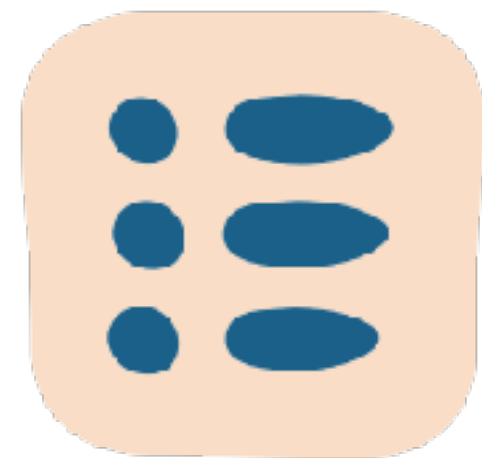
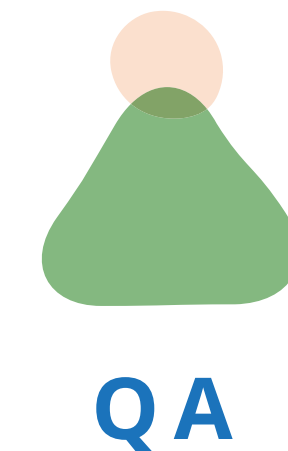
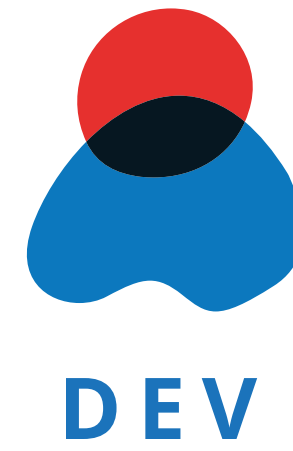
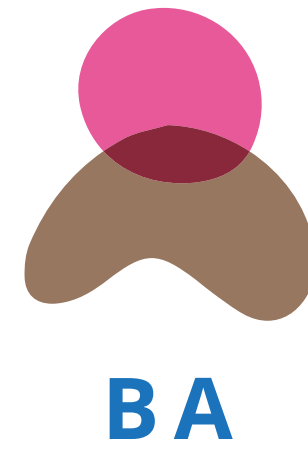
DONE

RELEASE

# 一个用户故事的旅程



# 一个用户故事的旅程



BACKLOG

KICK OFF

IN DEV

DESK CHECK

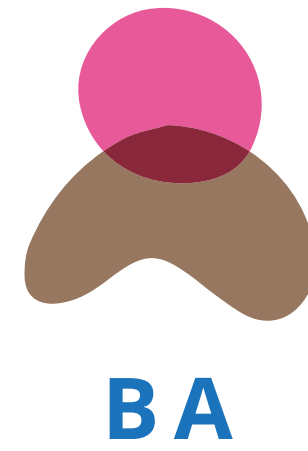
IN QA

DONE

RELEASE



# 一个用户故事的旅程



BACKLOG

KICK OFF

IN DEV

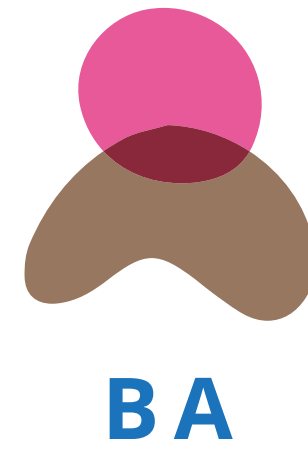
DESK CHECK

IN QA

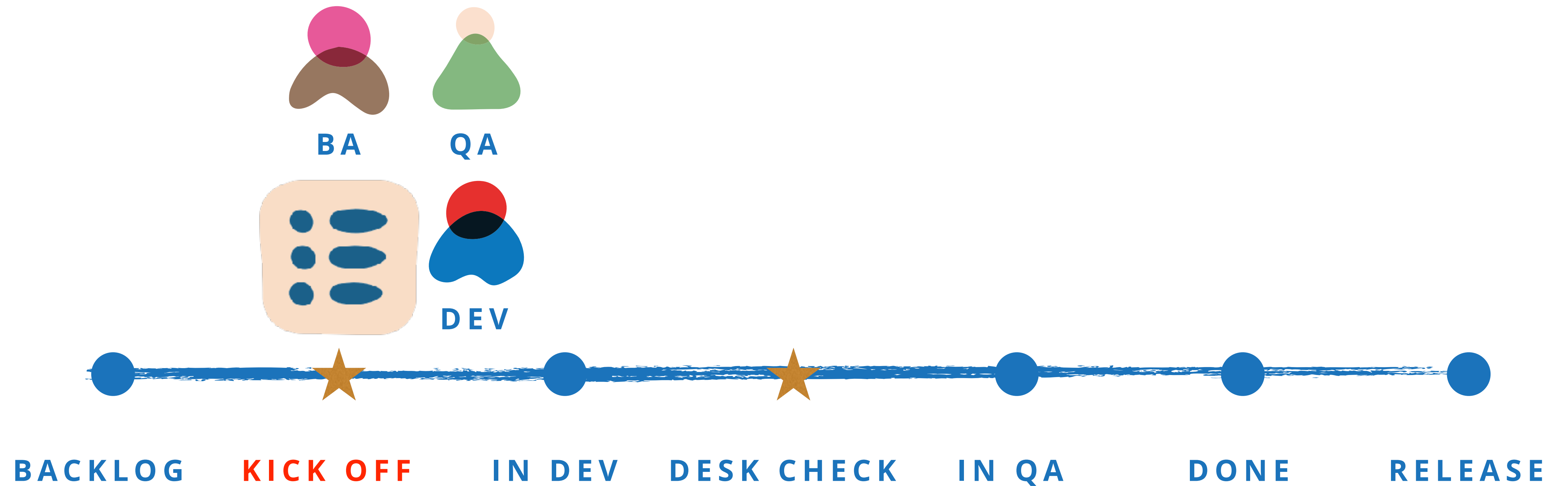
DONE

RELEASE

# 一个用户故事的旅程

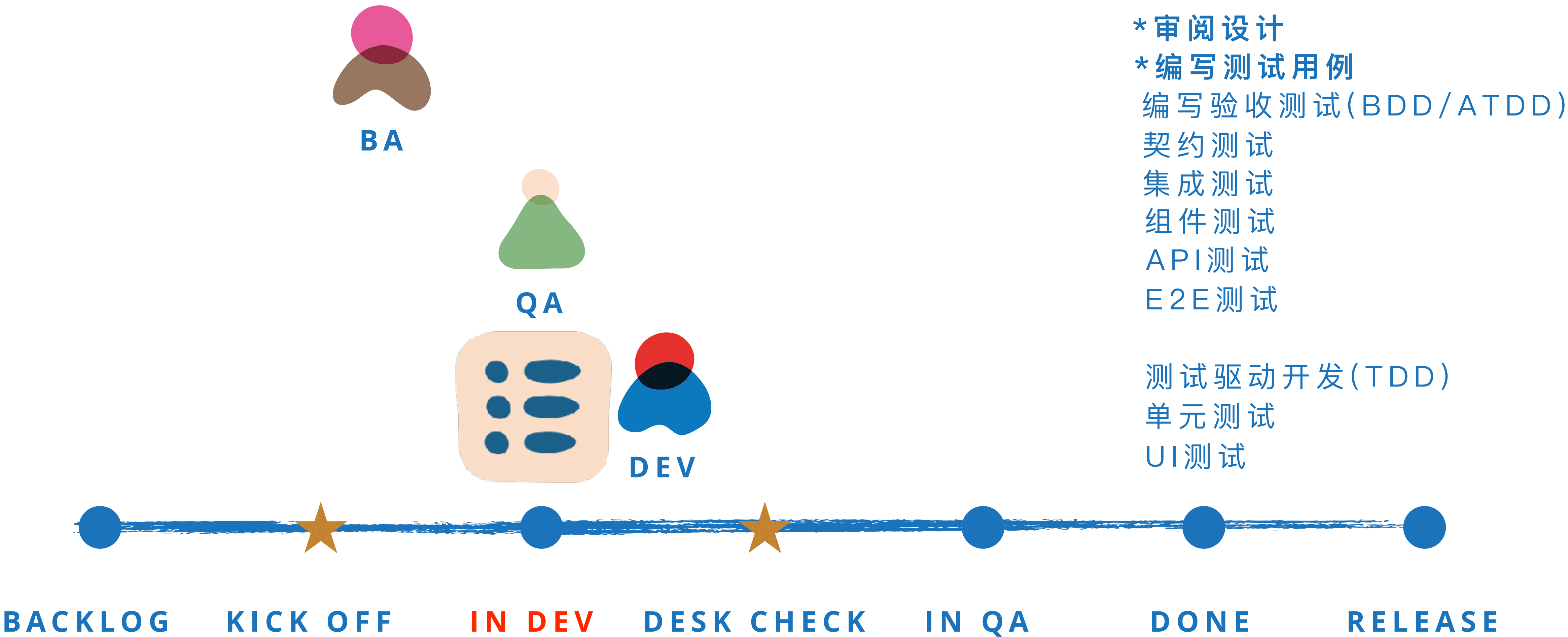


# 一个用户故事的旅程



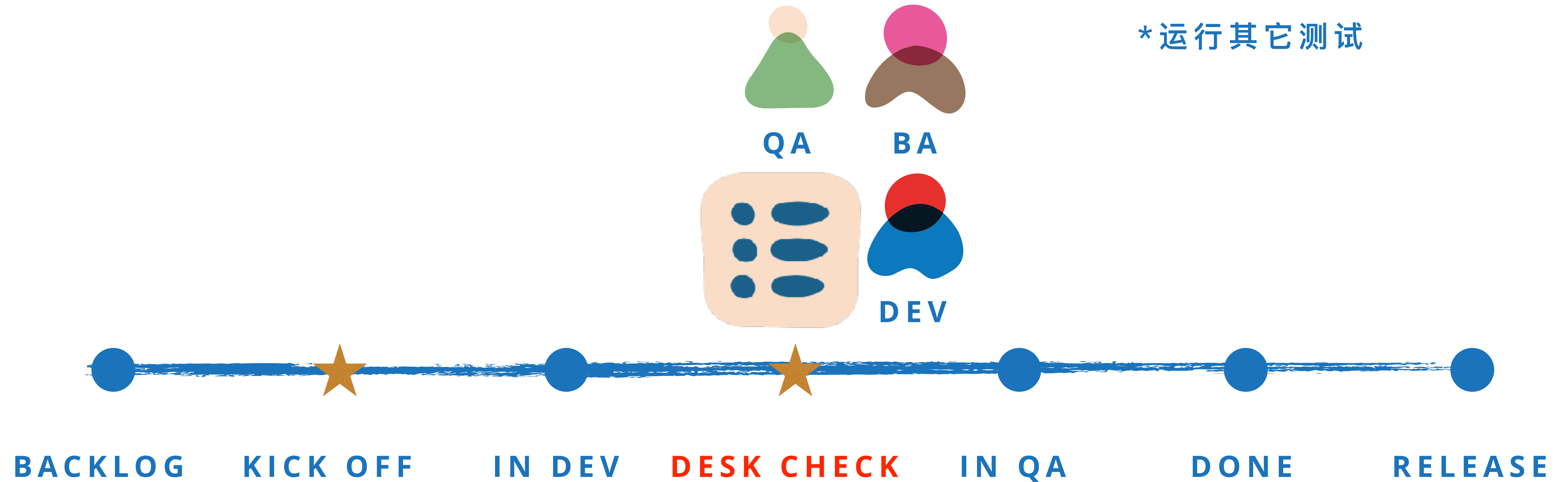


# 一个用户故事的旅程

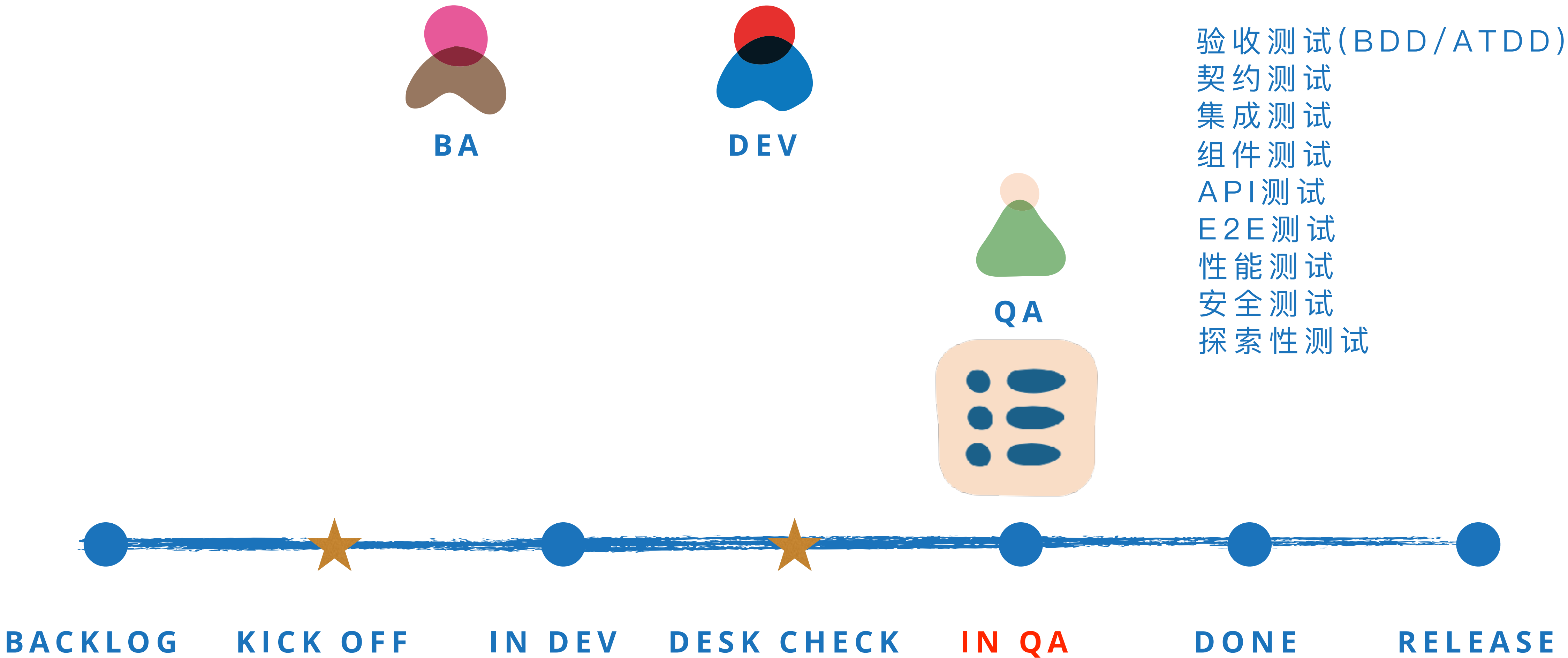


# 一个用户故事的旅程

- \* 审阅测试
- \* 运行验收测试(BDD/ATDD)
- \* 运行Unit测试
- \* 运行其它测试

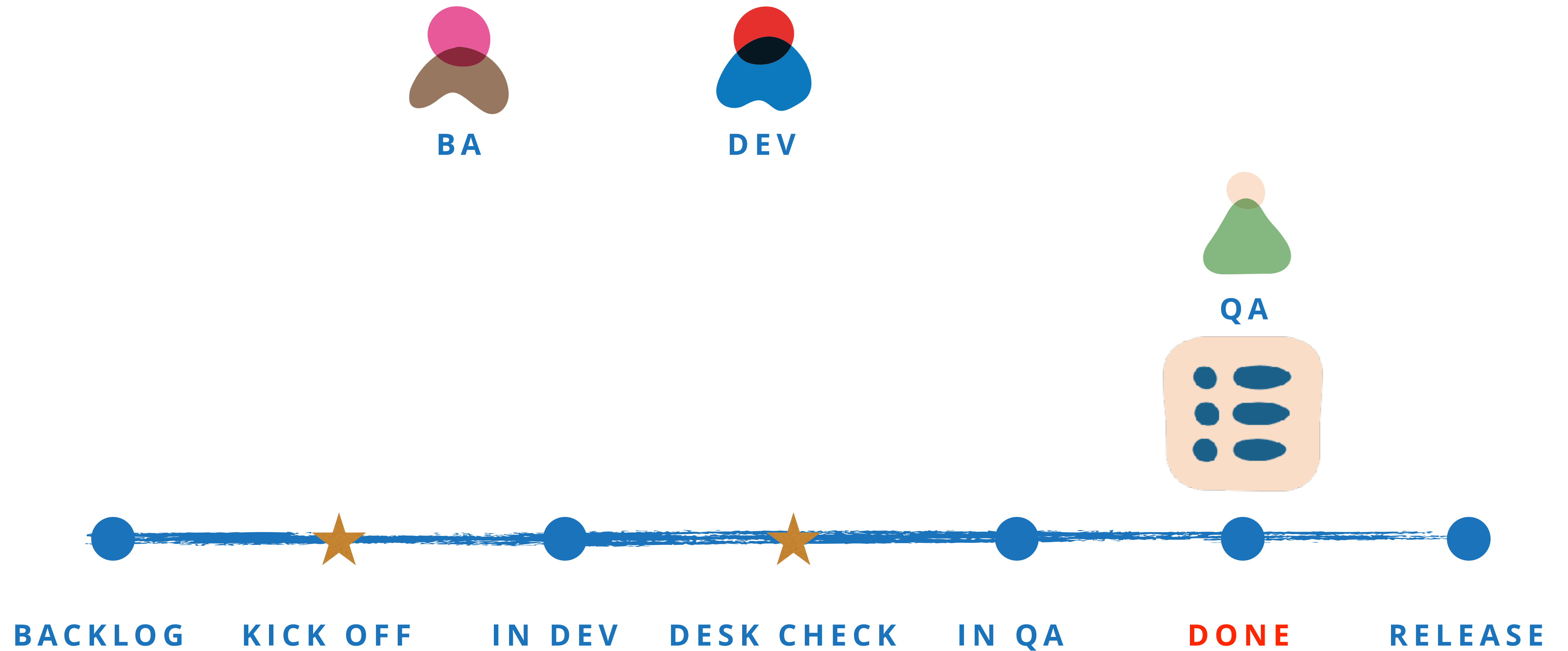


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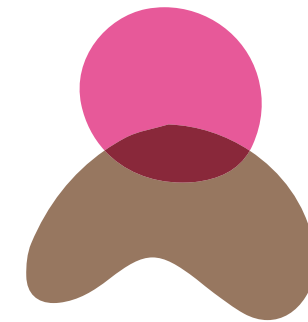




# 一个用户故事的旅程



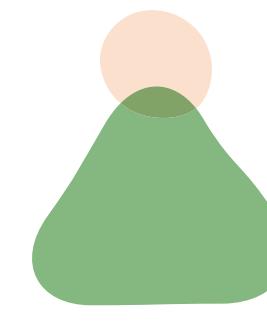
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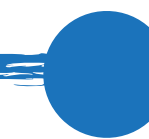
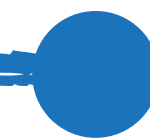
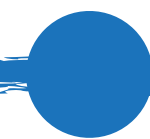
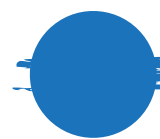
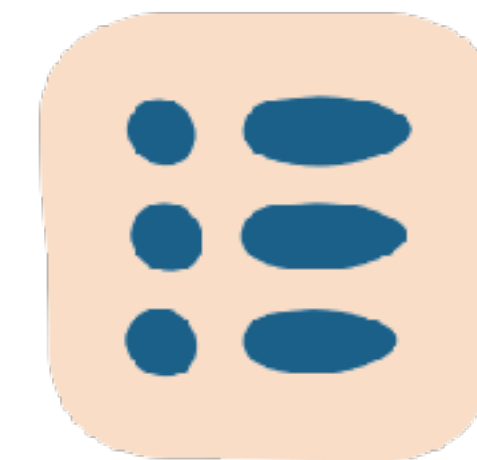
BA



DEV



QA



BACKLOG

KICK OFF

IN DEV

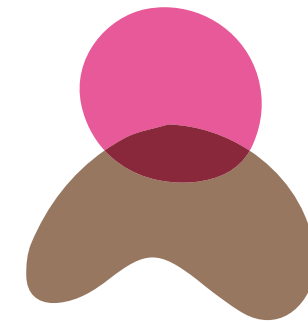
DESK CHECK

IN QA

DONE

RELEASE

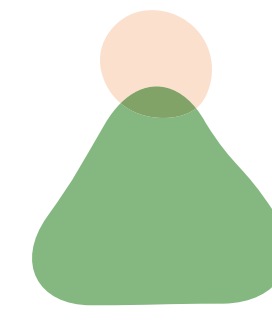
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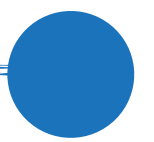
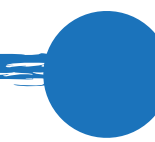
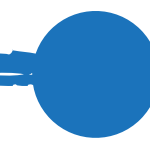
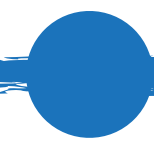
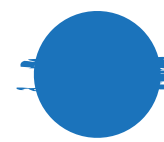
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DEV



QA



BACKLOG

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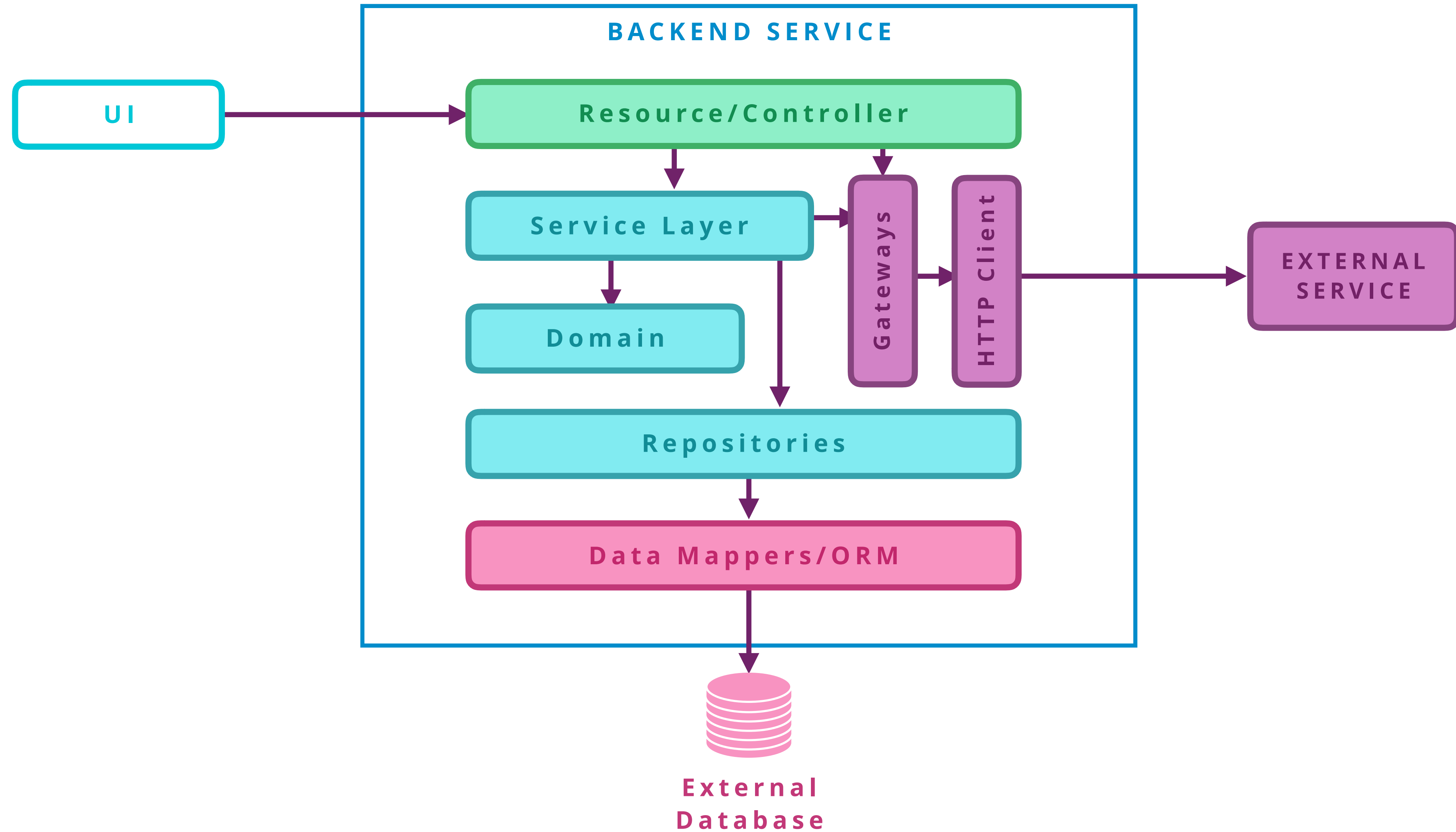


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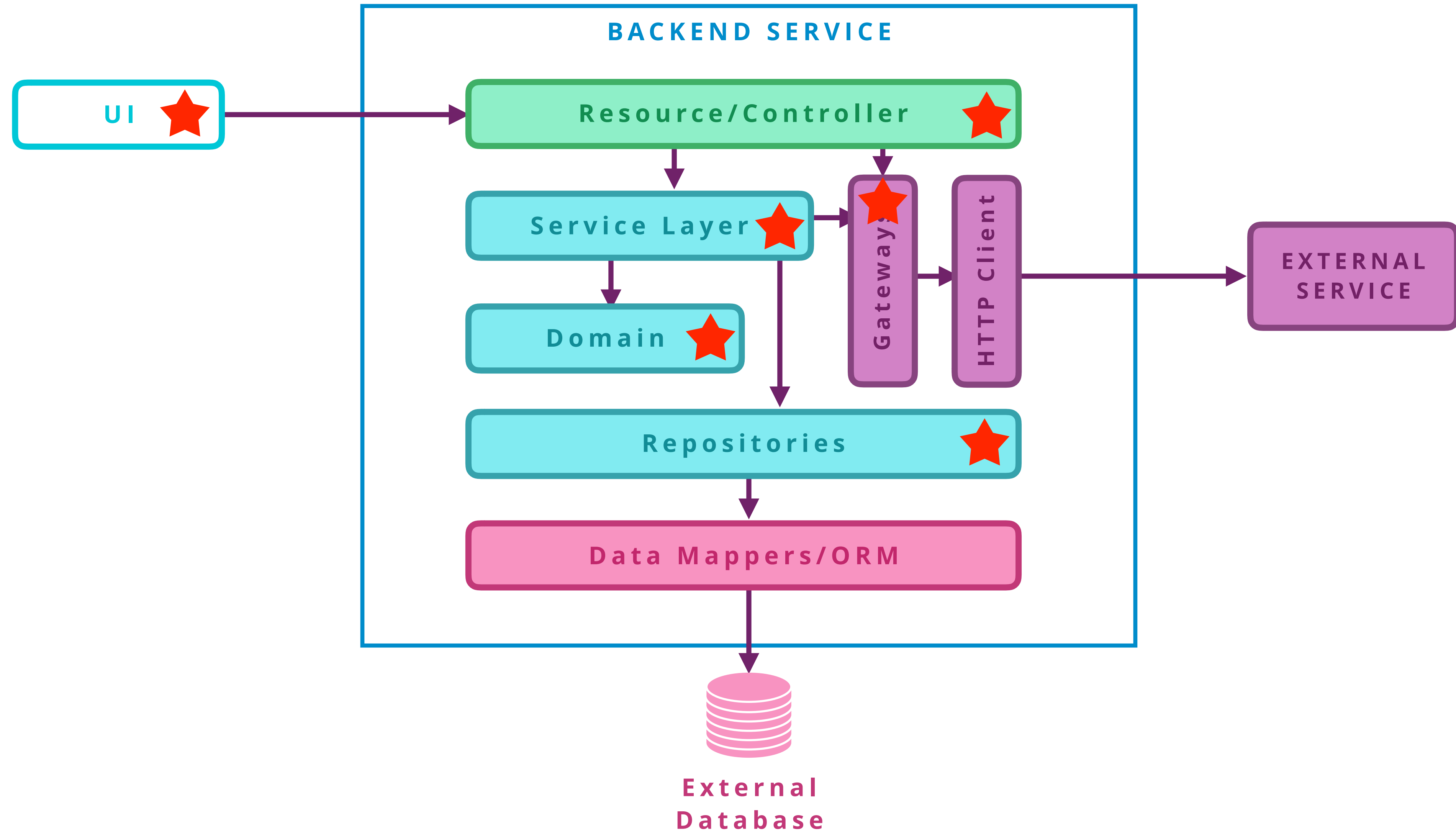
**WHERE, HOW**

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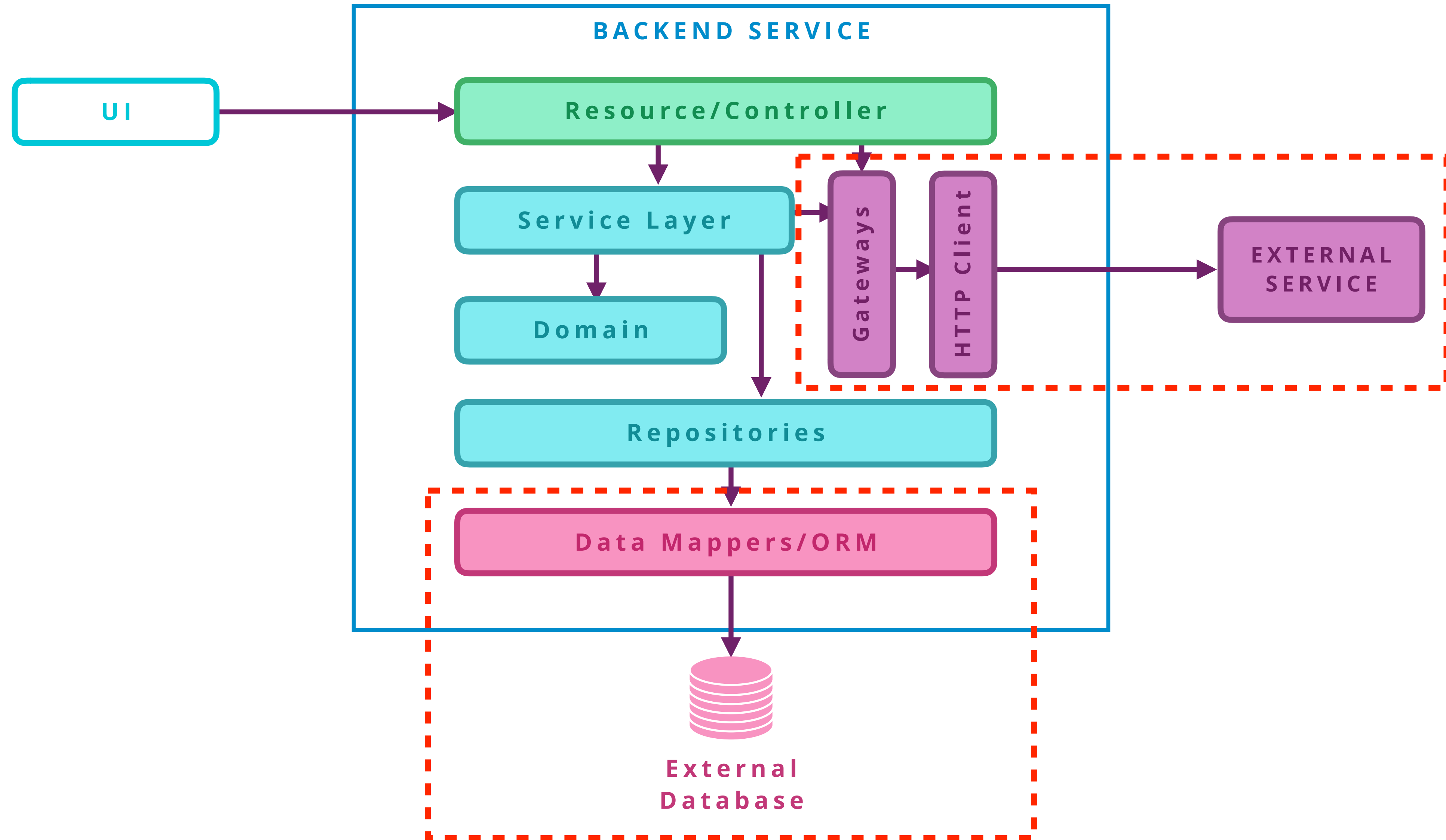
# 典型架构



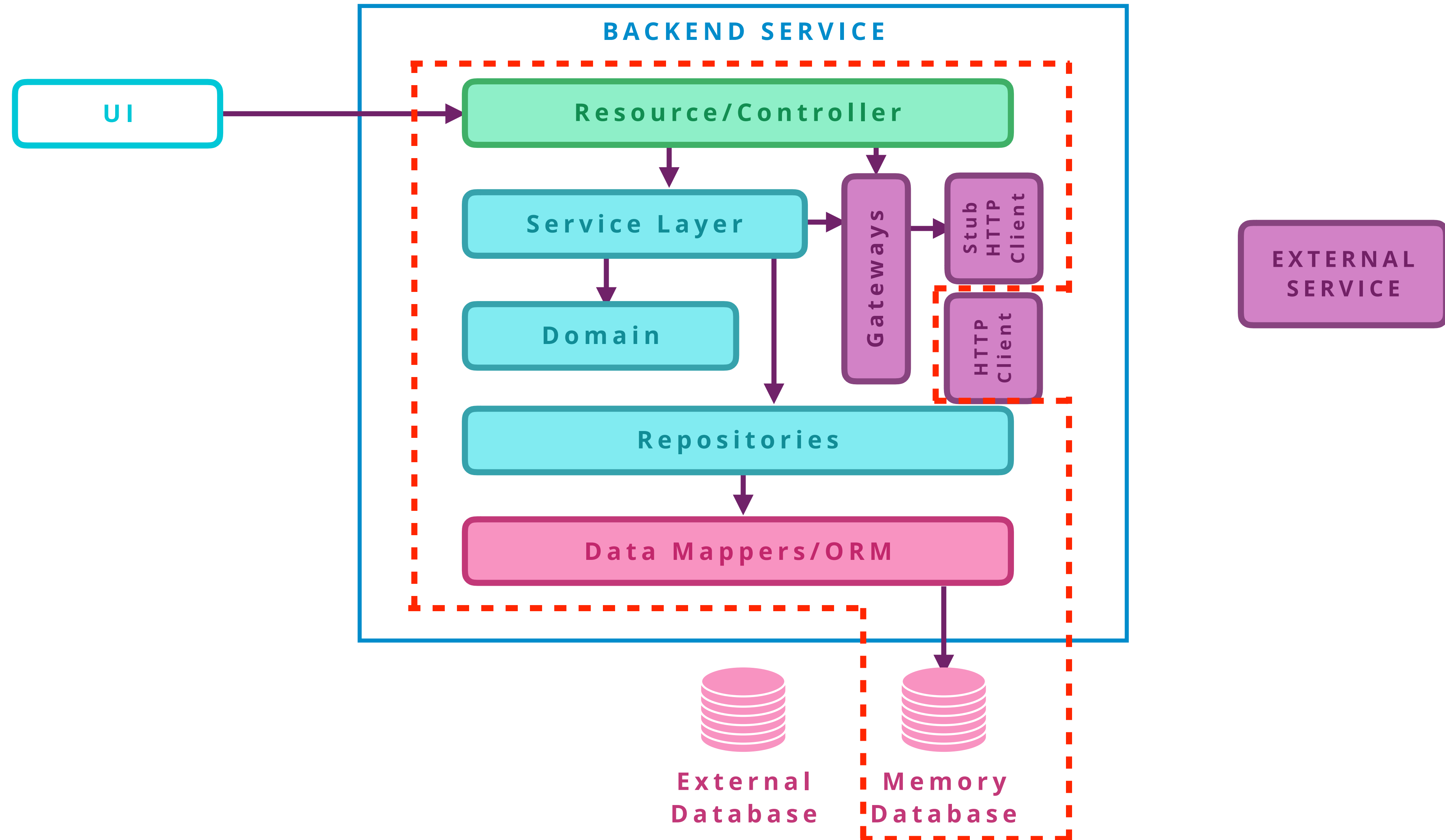
# 单元测试



# 集成测试

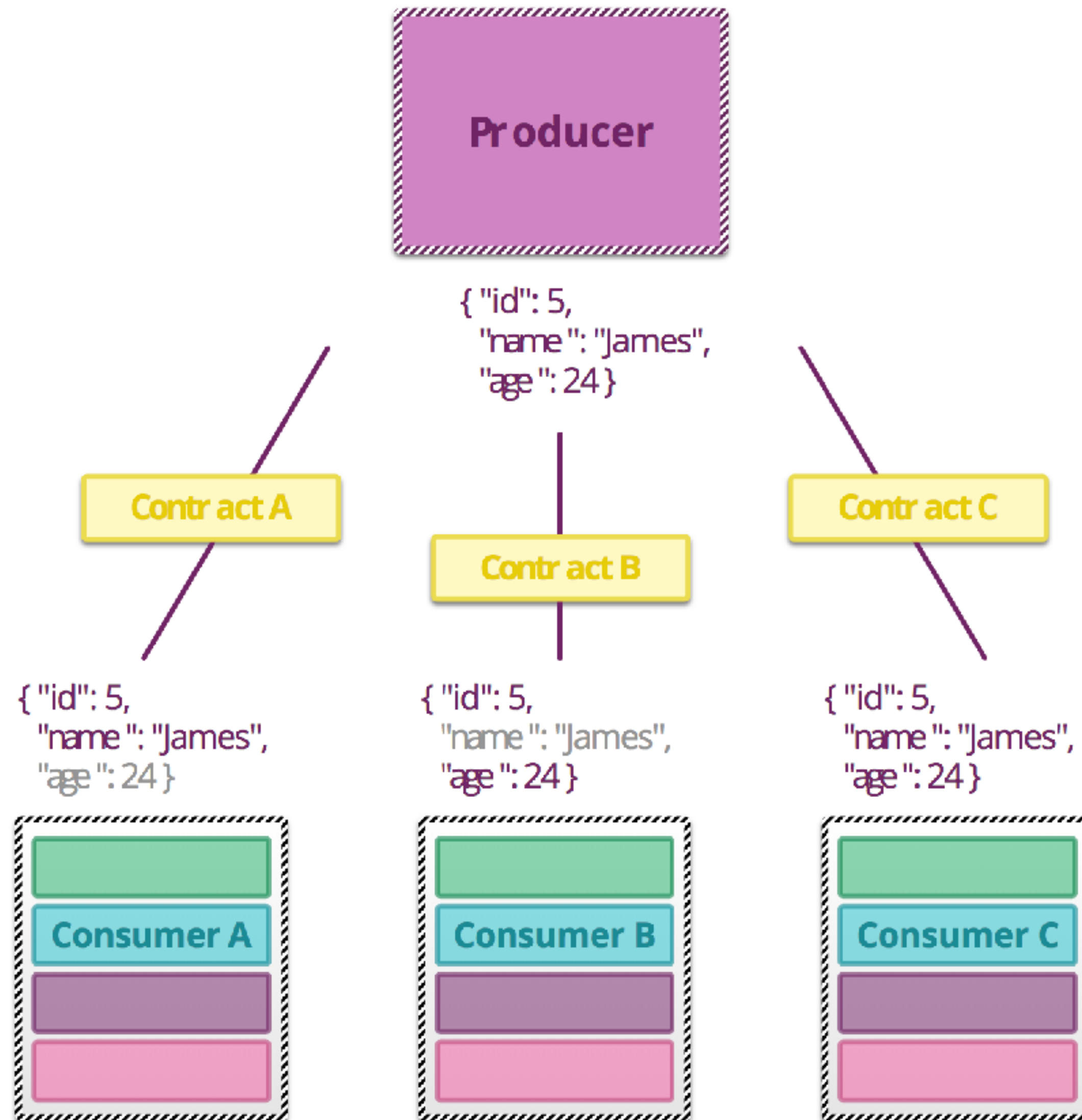


# 组件测试

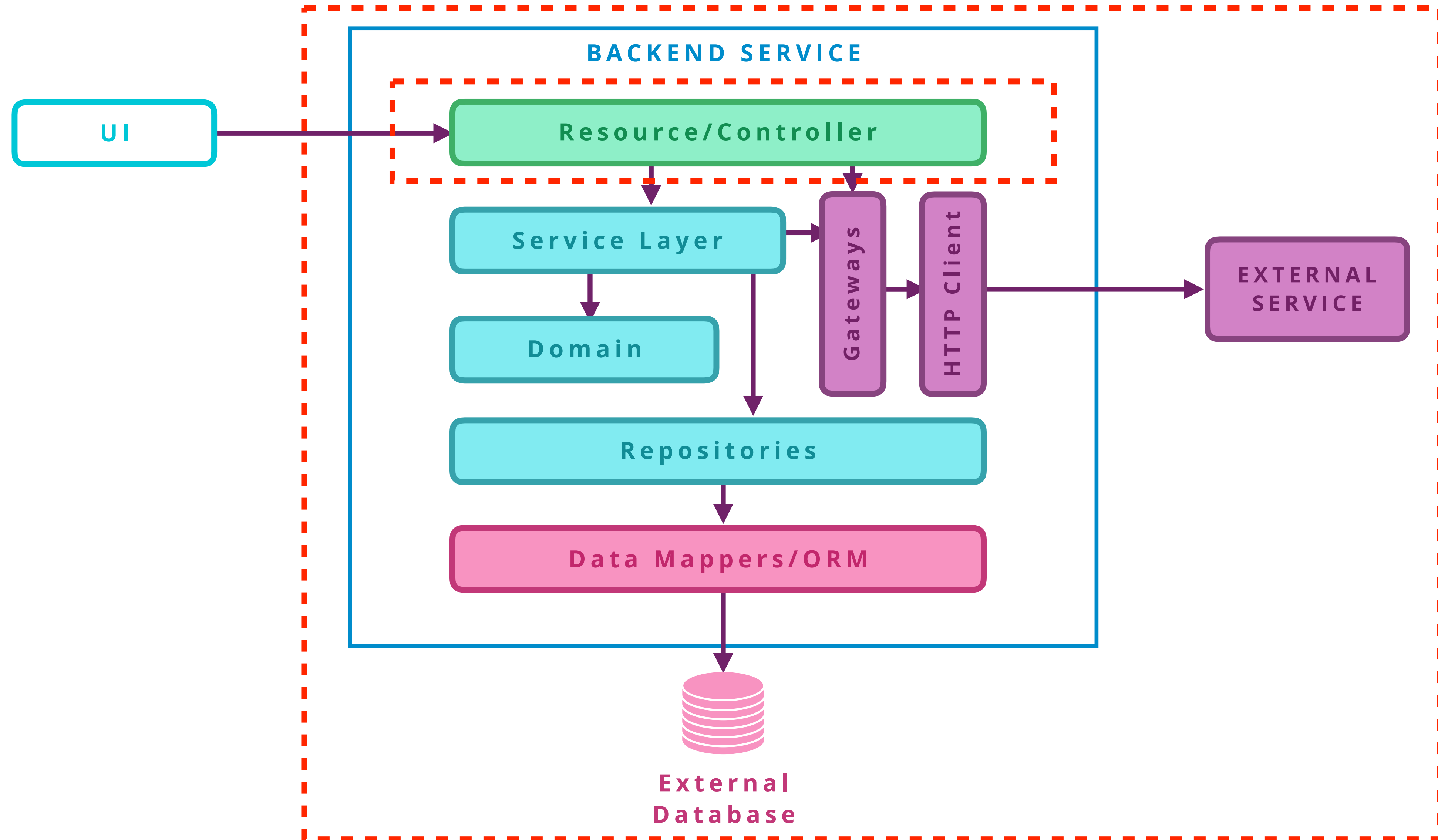




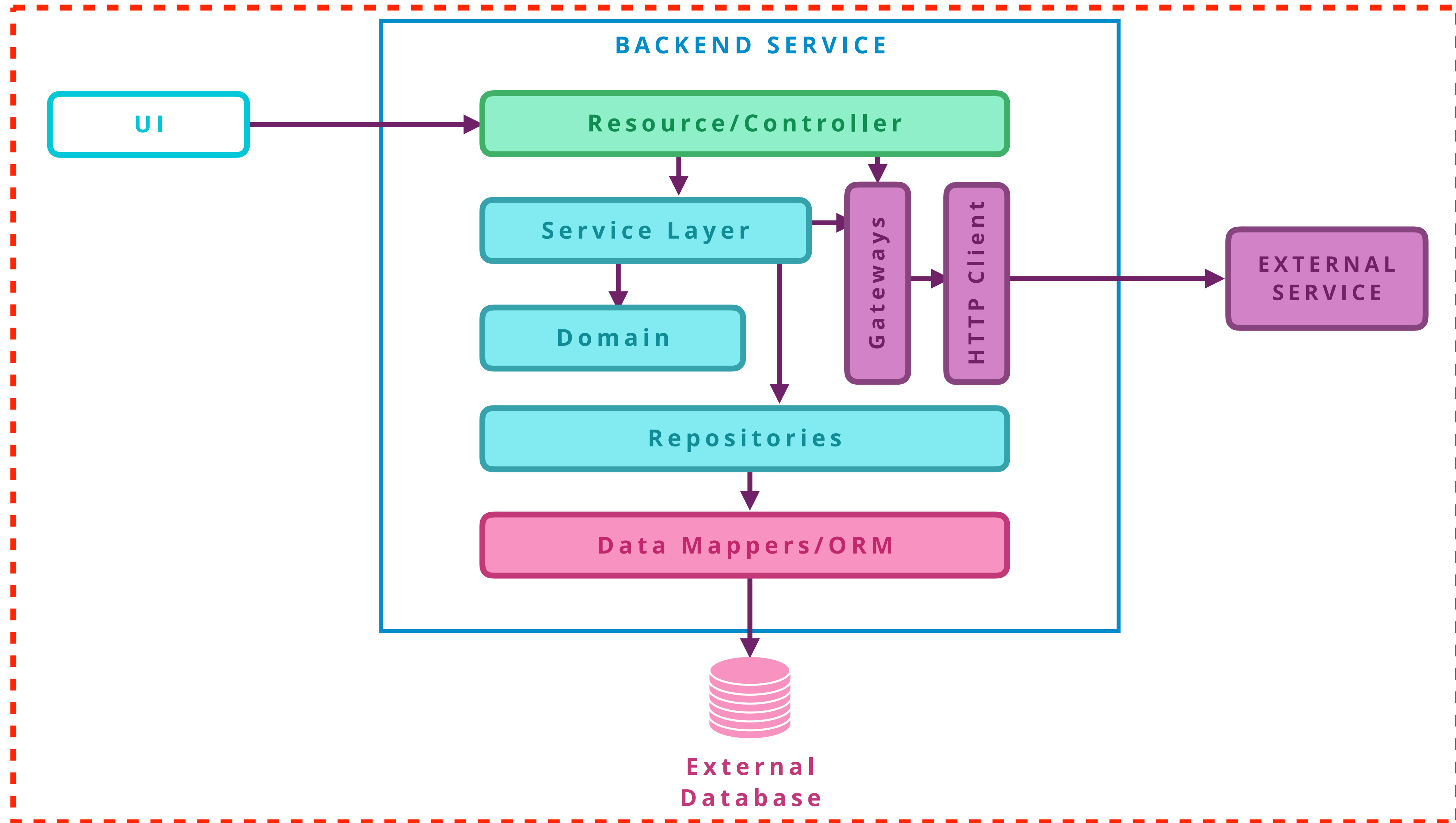
# 契约测试



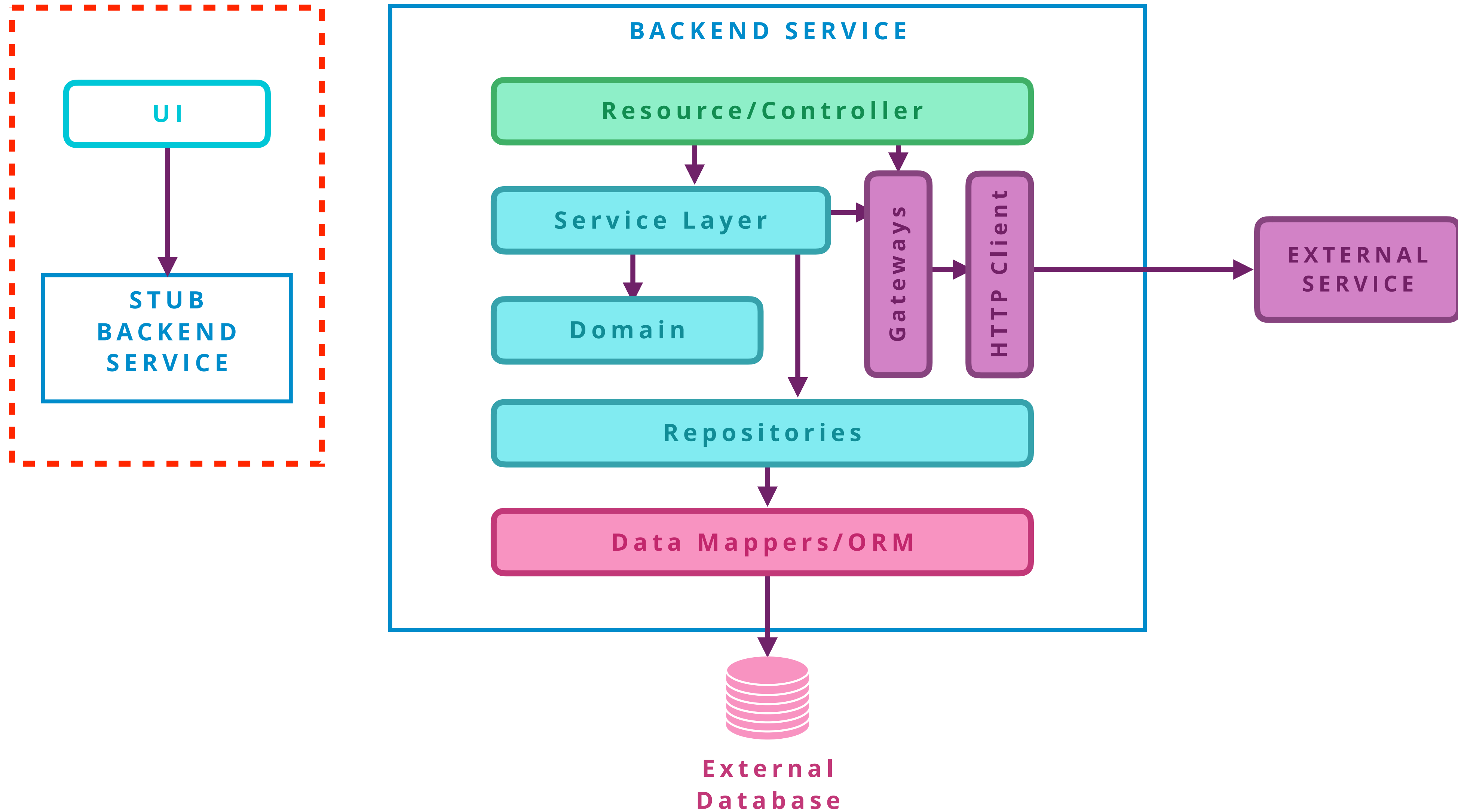
# API测试



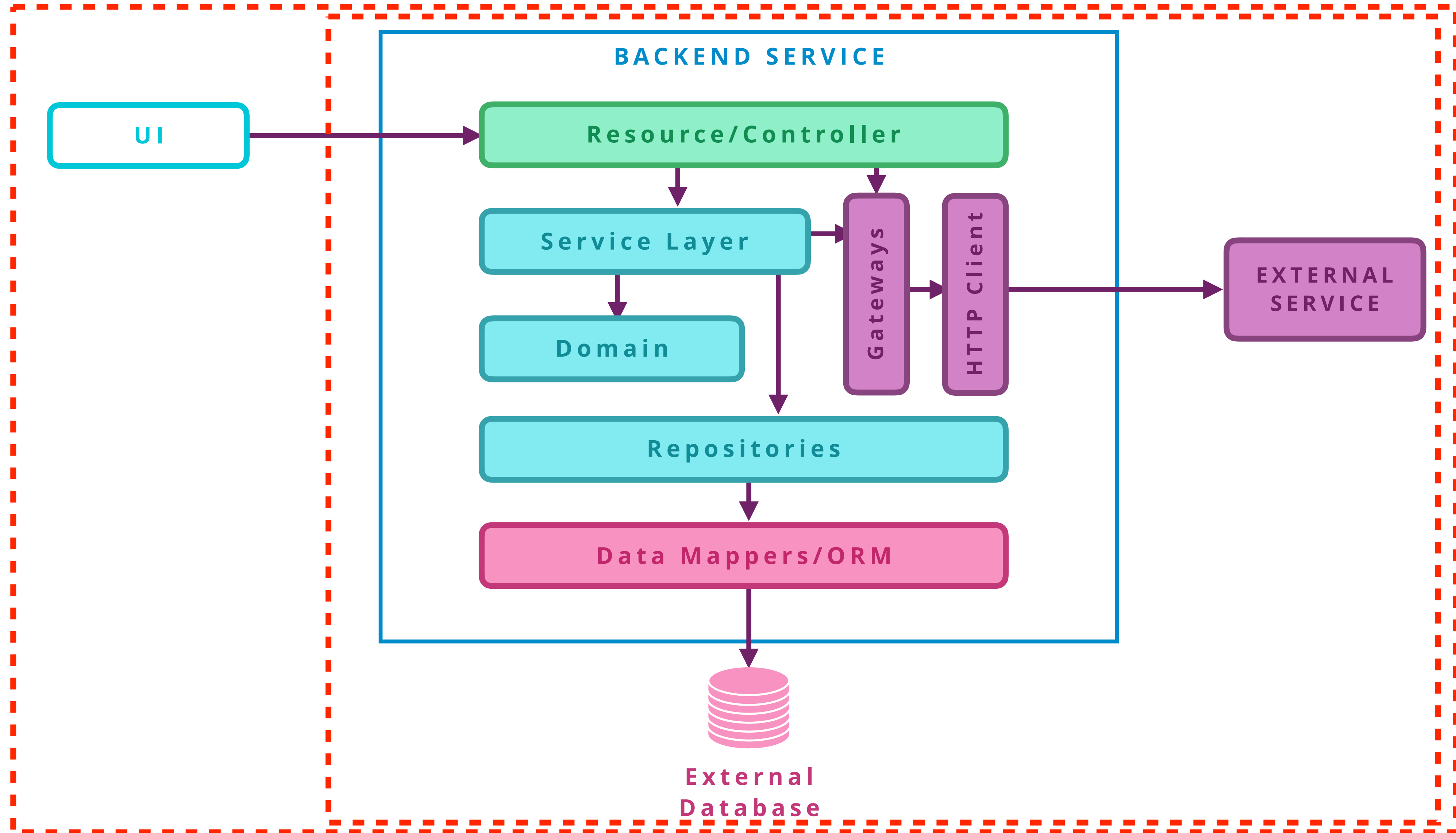
# E2E测试



# UI测试



# 验收测试

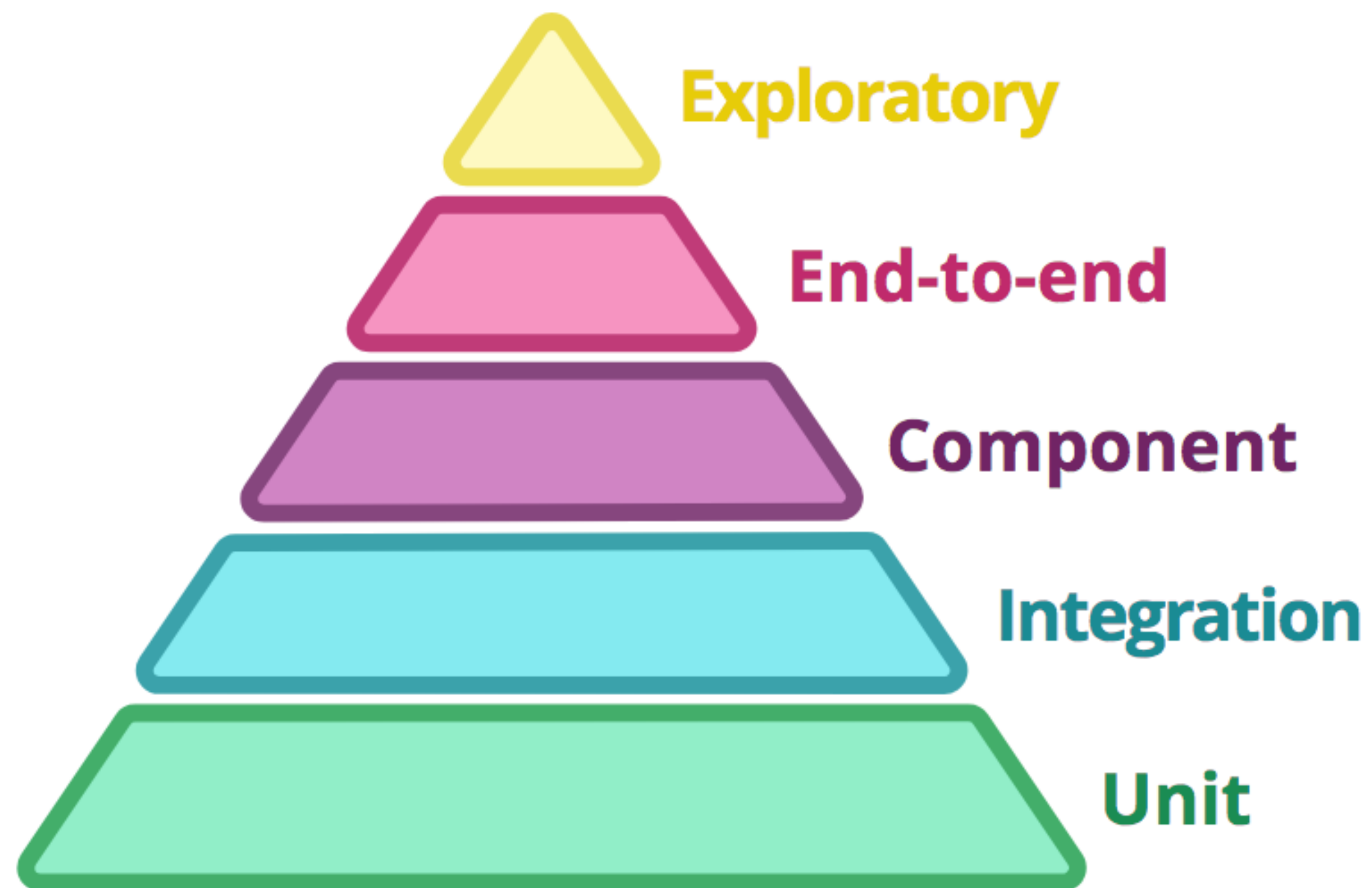




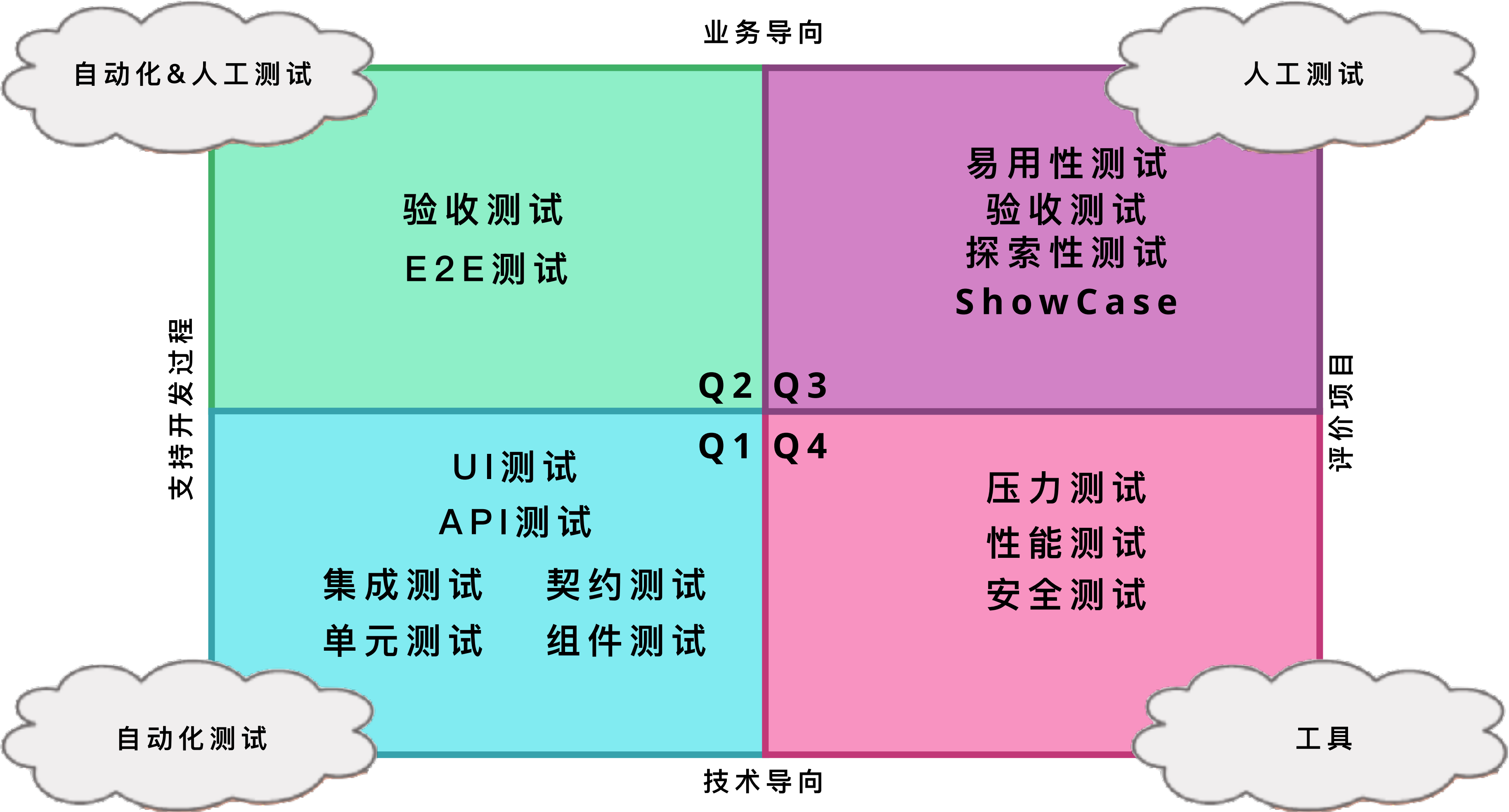
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# 测试金字塔

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# 测试四象限



# THANK YOU

*For questions or suggestions:*

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[xsmei@thoughtworks.com](mailto:xsmei@thoughtworks.com)

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