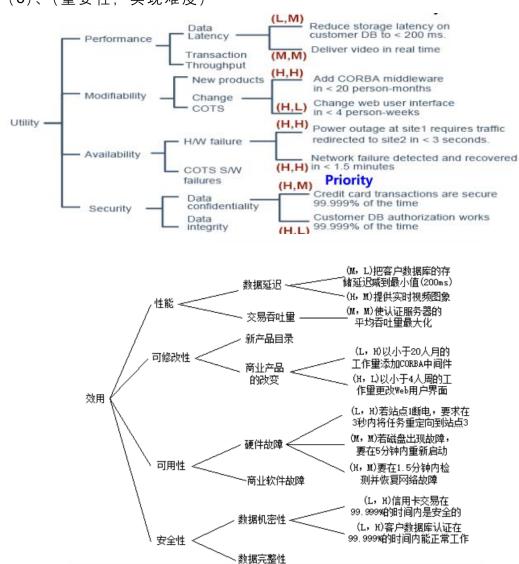
5、效用树:

- (1)、效用树的驱动质量属性是高级节点(通常是性能、可修改性、安全性和可用性)
 - (2)、场景是效用树的叶子节点
 - (3)、(重要性,实现难度)



(4)、输出:特定质量属性的特征描述和优先级排序

6、场景:

- (1)、功能: 场景用于代表项目干系人的利益, 了解质量属性要求
- (2)、场景应涵盖一系列
- 用例场景:系统的预期用途
- 增长场景:系统的预期更改
- 探索场景:系统的意外压力
- (3)、一个好的情景可以清楚地说明是什么刺激因素导致了这种情况,以及什么样的反应是令人感兴趣的
- (4)、举例:

- 用例场景:远程用户在高峰期间通过 Web 请求数据库报告,并在 5 秒内收到该报告。
- 增长场景: 在场景中添加新的数据服务器使其在1人每周减少延迟1到2.5秒
- 探索性场景:一半服务器在正常运行期间停机,而不影响总体系统可用性。

Stimuli, Environment, Responses

- Use Case Scenario
 - Remote user requests a database report via the Web during peak period and receives it within 5 seconds.
- · Growth Scenario
 - Add a new data server to reduce latency in scenario 1 to 2.5 seconds within 1 person-week.
- Exploratory Scenario
 - Half of the servers go down during normal operation without affecting overall system availability.

排除的能离本。
不分别试性:甲的不利公系统的可测试性是同时 一般 重要 他们 安太的 "我我们 "我看不是

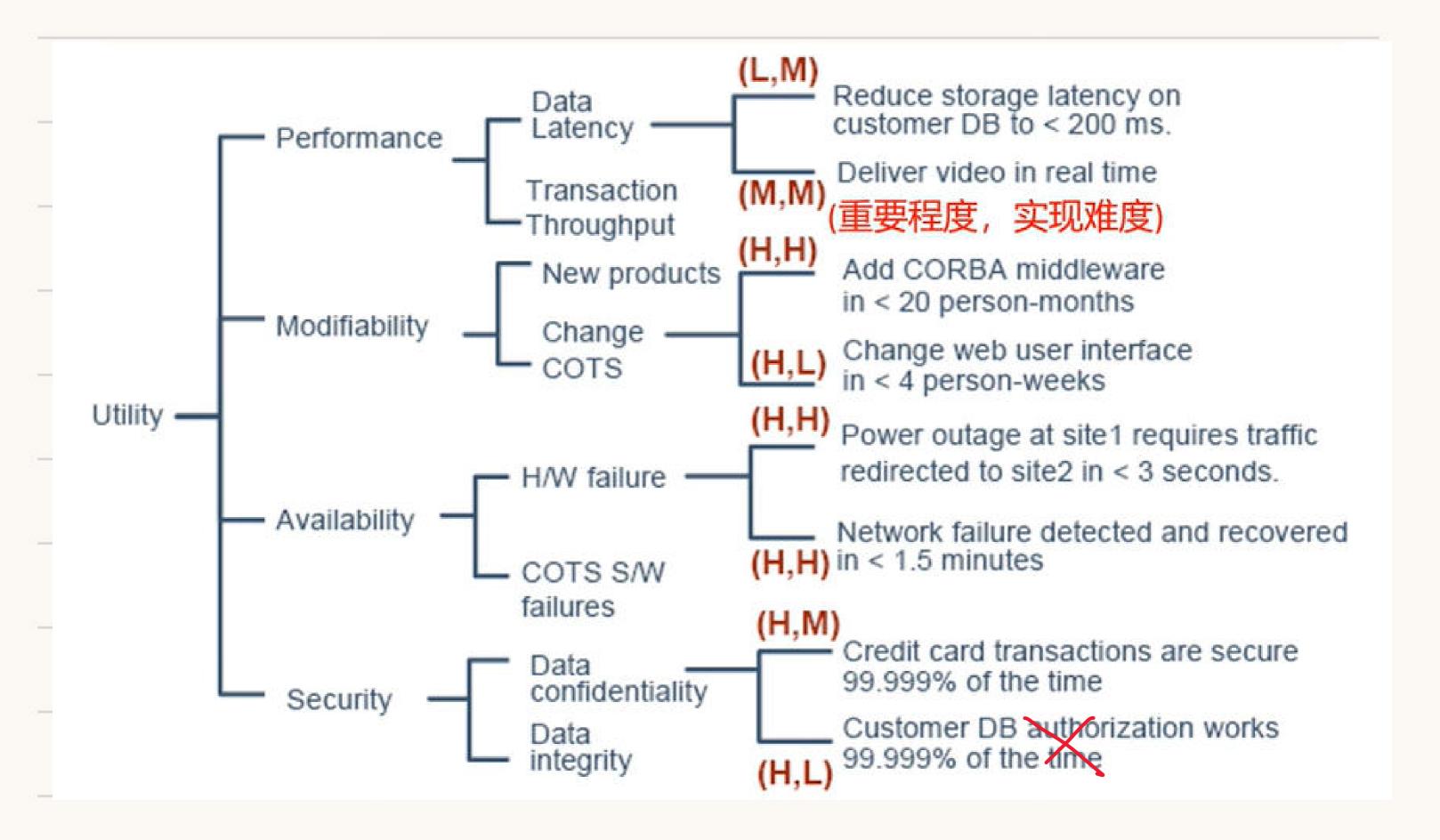
例题讲解-1

- There was a system concerned about Performance, Modifiability, Availability and Security. A development team analyzed the Quality attributes, designed architecture and wanted to use Utility Tree to evaluate the architecture, the following are the scenarios.
 - The Power off (电力中断) at Web site 1 requires traffic redirected to Web

 - Deliver video in real time
 - Change Web user interface in < 4 person-weeks 444 45
 - Network failure detected and recovered in < 1.5 minutes
 - Reduce storage latency on customer DB to < 200ms
 - Add CORBA middleware in < 20 person-month

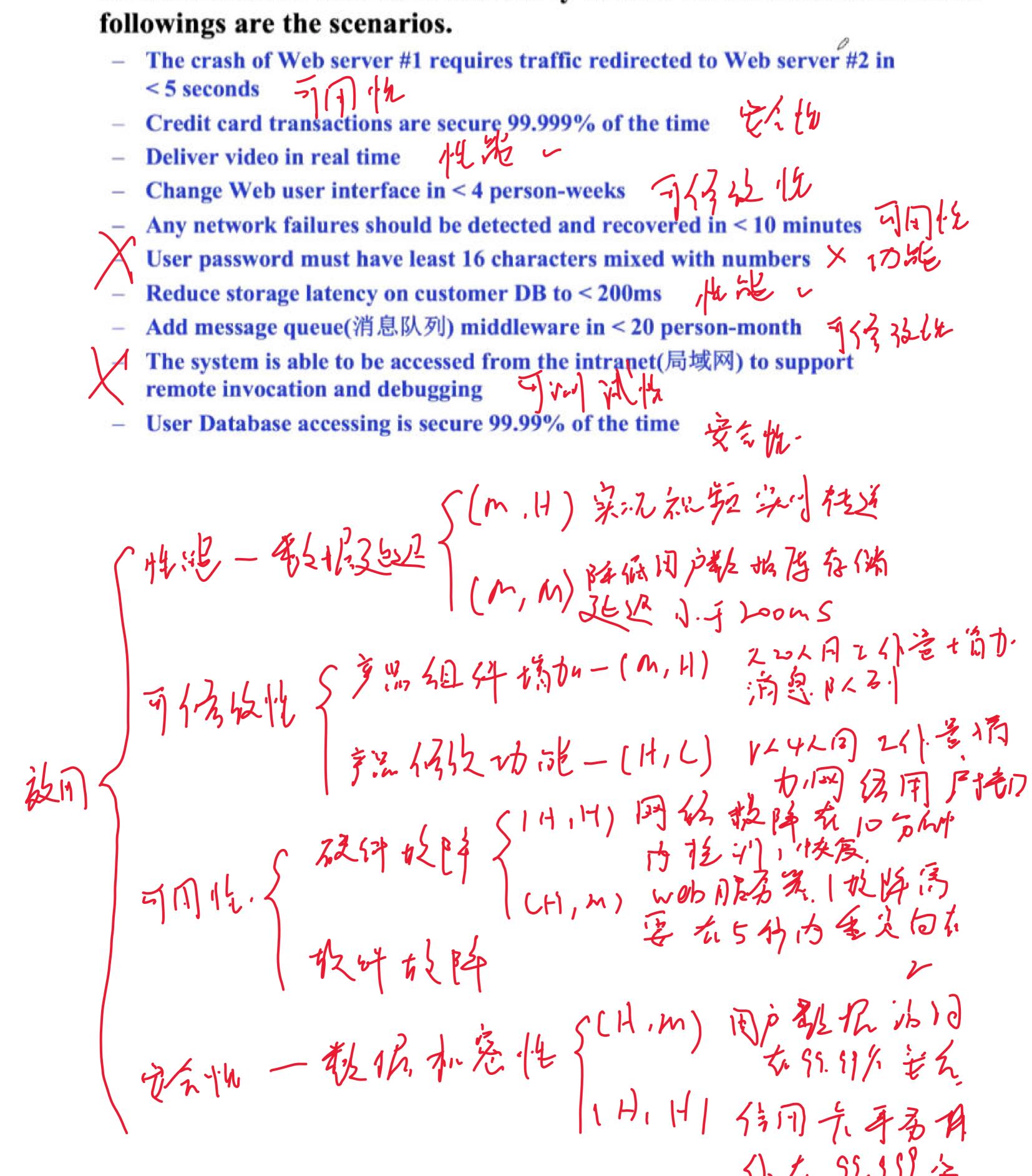
The system is able to be accessed from the intranet(局域网) to support remote invocation and debugging

The user password must have least 16 characters mixed with numbers



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A software company plans to develop a video sharing Web site. The development team analyzed the Quality Attributes, designed architecture and wanted to use Utility Tree to evaluate the architecture followings are the scenarios.



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