**单元测试日志**

**项目名称:** 基于语音识别和聊天机器人的智能音箱实现

**模块名称:** 语音识别模块

**测试日期:** 2024年7月7日

**测试者:** 刘成

**测试环境:**

* **操作系统:** Windows 10, 版本 21H1
* **开发工具:** PyCharm 2021.1
* **测试框架:** PyTest 6.2

**测试用例列表:**

| **测试用例ID** | **测试方法** | **测试数据** | **预期结果** | **实际结果** | **测试结果** |
| --- | --- | --- | --- | --- | --- |
| UTC\_001 | test\_noisy\_env\_recognition | {"audio\_file": "noisy\_audio.wav"} | "Hello, how can I help you? | "Hello, how can I help you?" | pass |
| UTC\_002 | test\_silent\_audio | |  | | --- | | {"audio\_file": "silent\_audio.wav"} | | |  | | --- | | "No speech detected" | | |  | | --- | | "No speech detected" | | |  | | --- | | pass | |
| UTC\_003 | test\_clear\_audio | {"audio\_file": "clear\_audio.wav"} | "Play some music" | "Error: Unexpected token" | fail |

**问题与缺陷记录:**

| **问题ID** | **描述** | **严重性** | **优先级** | **状态** | **责任人** | **备注** |
| --- | --- | --- | --- | --- | --- | --- |
| TPR-003 | test\_clear\_audio在处理特定数据时失败 | 高 | 高 | 新 | 李晓璐 | 需要优化算法 |

**总结:**

* 测试覆盖率: 60%
* 通过率: 60%
* 总测试数: 3