

FocusFlow Alpha Sprint

汇报人：吴韩韬 胡嘉耀

01

功能测试计划

02

实际进展与燃尽图

03

挑战与不足

04

总结与未来展望



01 功能测试计划

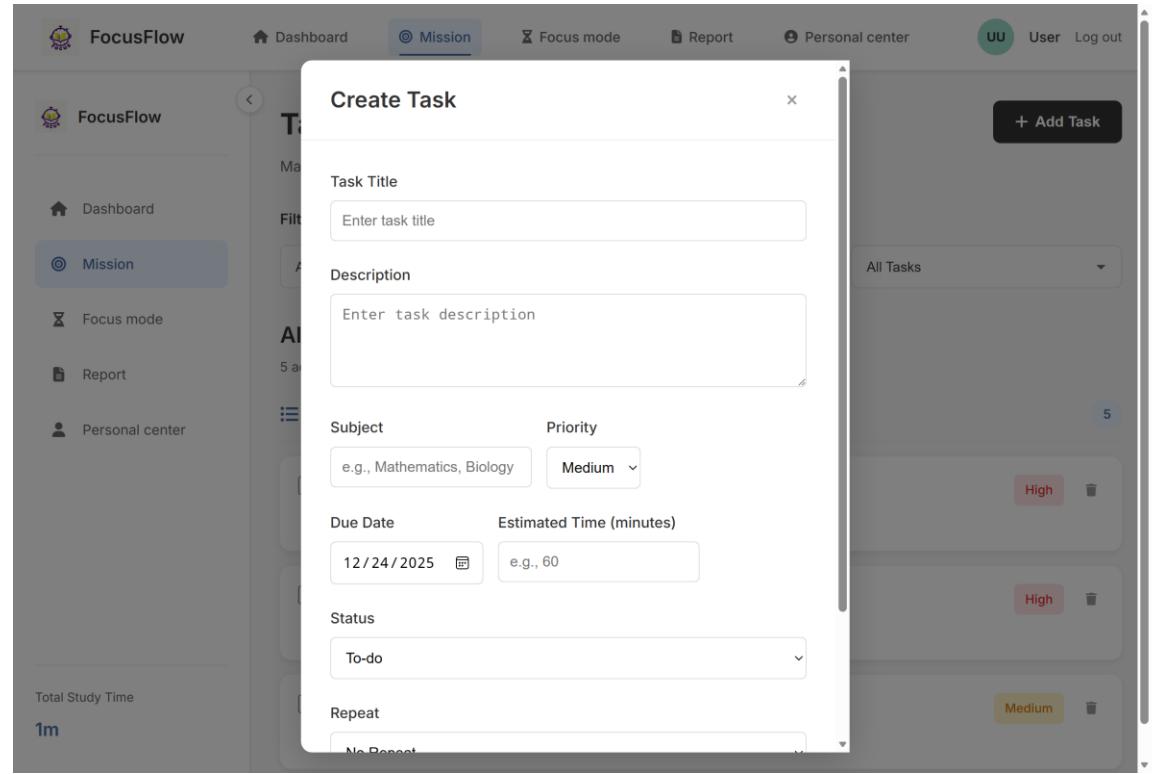


The image shows two screenshots of the FocusFlow application. On the left is the 'Login' screen, which includes fields for 'Phone Number', 'Password', and a CAPTCHA challenge ('1 + 5 = ?'), along with 'Login' and 'Forgot Password' buttons. On the right is the 'Personal center' screen, which displays a user profile for 'Jiayao Hu' (Fuzhou University), showing study statistics like 'Total Study Time 1m', and sections for 'Account Security' (with a 'Change Password' button) and 'Security Tips' (including three tips: using strong passwords, changing them every 3 months, and never sharing them).

- 登录与个人中心模块：测试用户登录和个人中心模块是否正常工作。该模块实现基于手机号码、密码和动态验证码的身份验证流程。它采用bcrypt算法进行密码加密和存储，并通过会话机制管理用户会话状态。



FocusFlow



- 任务创建、删除与修改：这一阶段的核心是测试任务管理模块的基础功能。用户可以输入任务的名称、描述、对应的科目以及设置优先级、截止日期等属性。



FocusFlow

FocusFlow

Dashboard Mission Focus mode Report Personal center User Log out

5 active, 11 completed

To-do List

学Python
控制系统设计 2025-11-19 60 min
High

web2
控制系统设计 2025-11-19 60 min
High

信号与系统1212121212
2025-11-28 60 min
Medium

吴韩韬123212
123 17 days 60 min
Medium

吴韩韬1232
234234 67 days 60 min
Medium

Already-done 11

Total Study Time
1m

- 任务标记完成：用户可以勾选任务标签左侧的方框来标记任务完成。与此同时，为防止误触，用户也可以在已标记完成的任务中找到对应的标签并取消勾选。



FocusFlow

The screenshot shows the Focus mode section of the FocusFlow app. At the top, there is a navigation bar with icons for Dashboard, Mission, Focus mode (which is highlighted), Report, Personal center, User, and Log out. On the left, a sidebar lists Dashboard, Mission, Focus mode (highlighted), Report, and Personal center. Below the sidebar, it shows "Total Study Time" as 1m. The main content area is titled "Study Timer" with the sub-instruction "Use the Pomodoro technique to boost your focus". It features a large digital timer displaying "25:00". A dropdown menu labeled "Choose a subject" is open, showing options like "控制系统设计", "234234", and "123", with "控制系统设计" currently selected. Below the timer are "Start" and "Cancel" buttons. To the right, there is a box titled "Today's Progress" showing "0m" total study time. Another box titled "How it works" lists four steps: 1. Choose a subject and set your focus time, 2. Work with full concentration until the timer ends, 3. Take a short break to recharge, and 4. Repeat the cycle to build momentum.

- 专注模式与番茄钟：用户可选择学习的学科以及倒计时的时间。当倒计时结束之后，用户的学习时间会记入总时长。与专注模式、倒计时计时对焦器和学习时长统计相关的功能测试。



FocusFlow

The screenshot shows the FocusFlow application interface. At the top, there is a navigation bar with icons for FocusFlow, Dashboard, Mission, Focus mode, Report, Personal center, User, and Log out. A blue banner at the top right says "Sign in successful! Keep up the good work!". Below it, a teal banner greets the user with "Good morning, Jiayao!" and says "Today is a good day to study!" with a "Sign in immediately" button. On the left sidebar, there are links for Dashboard, Mission, Focus mode, Report, and Personal center. The main area has sections for "Task management" (with a blue icon), "Focus mode" (with a red icon), and "Study report" (with a green icon). Below these are two cards: "Today's task" (0/0 Completed) which says "No tasks for today. Create some!" and "Learning statistics" which says "Keep going, you did a great job!" and "This week's focus time: 0min". It also includes a quote: "Every minute of concentration is the cornerstone of progress!".

- 主页功能：测试用户主页是否提供清晰的每日签到流程、关键指标（连胜记录、今日任务、专注会话）



FocusFlow

```
[调试] 用户签到成功
127.0.0.1 - [24/Dec/2025 10:54:59] "POST /checkin HTTP/1.1" 302 -
[调试] 尝试连接数据库...
[调试] 数据库连接成功
[调试] 验证用户登录状态, session中的user_id: 1
[调试] 用户已登录, 继续执行请求
[调试] 访问仪表盘页面
[调试] 获取语言翻译, 语言: en-US
[调试] 语言翻译获取成功, 返回了13个翻译项
[调试] 尝试连接数据库...
[调试] 数据库连接成功
[调试] 获取用户 1 的任务列表
[调试] 获取用户 1 的签到信息
[调试] 最终统计数据: {'focus_time': {'hours': 0, 'minutes': 0}, 'completed_sessions': 0, 'total_sessions': 0, 'completed_tasks': 11, 'total_tasks': 16, 'productivity_score': 68.75, 'streak_days': 1}
[调试] 趋势数据: [{"day": "Thursday", "value": 0, "date": "2025-12-18", "date_display": "12月18日", "checked_in": False, "tasks": [], "task_count": 0}, {"day": "Friday", "value": 0, "date": "2025-12-19", "date_display": "12月19日", "checked_in": False, "tasks": [], "task_count": 0}, {"day": "Saturday", "value": 0, "date": "2025-12-20", "date_display": "12月20日", "checked_in": False, "tasks": [], "task_count": 0}, {"day": "Sunday", "value": 0, "date": "2025-12-21", "date_display": "12月21日", "checked_in": False, "tasks": [], "task_count": 0}, {"day": "Monday", "value": 0, "date": "2025-12-22", "date_display": "12月22日", "checked_in": False, "tasks": [], "task_count": 0}, {"day": "Tuesday", "value": 0, "date": "2025-12-23", "date_display": "12月23日", "checked_in": False, "tasks": [], "task_count": 0}, {"day": "Wednesday", "value": 0, "date": "2025-12-24", "date_display": "12月24日", "checked_in": False, "tasks": [], "task_count": 0}]
```

- 个人中心与数据库：测试个人中心模块与后端数据库之间的交互，确保数据的持久性、完整性和安全性。验证用户相关数据在多个会话中正确存储、检索和更新。



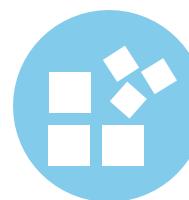
02 实际进展



FocusFlow



登录与个人中心模块：已完成登入页面提示、个人中心主页展示、个人信息修改、密码修改功能的测试。



专注模式与专注时间计时：专注模式设置正常、倒计时功能和总学习时间显示正常



主页功能：完成主页显示与导航模块、每日签到功能、关键指标（连胜记录、今日任务、专注会话）的测试



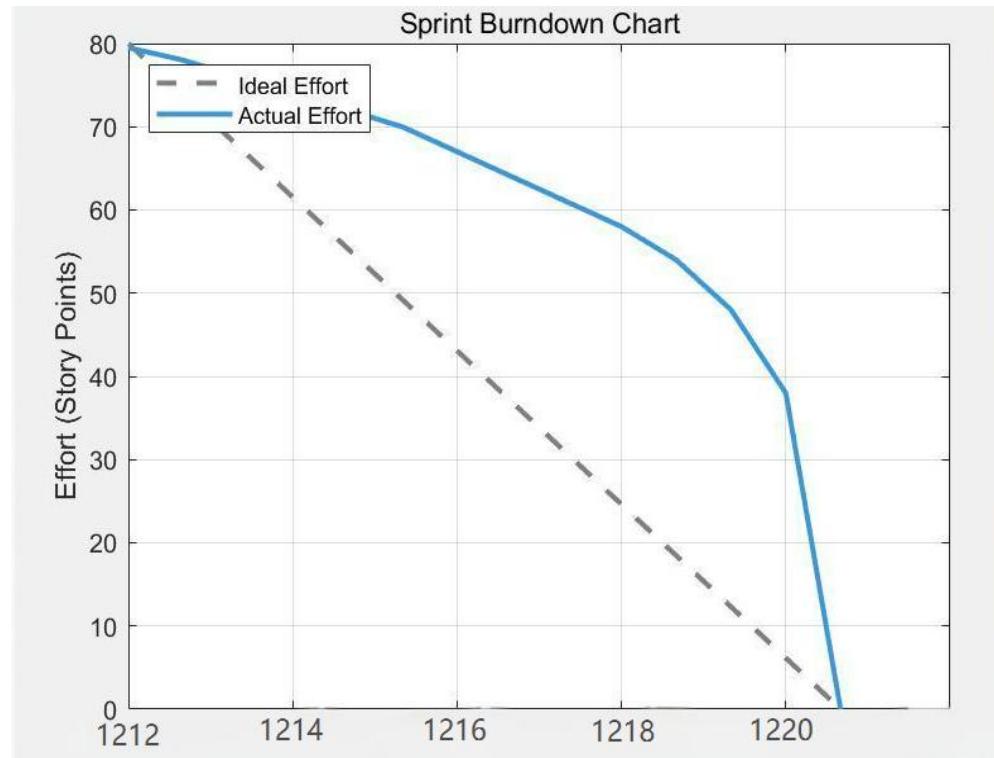
任务创建、删除与修改：已完成任务创建、编辑与删除以及结构化规划的功能测试



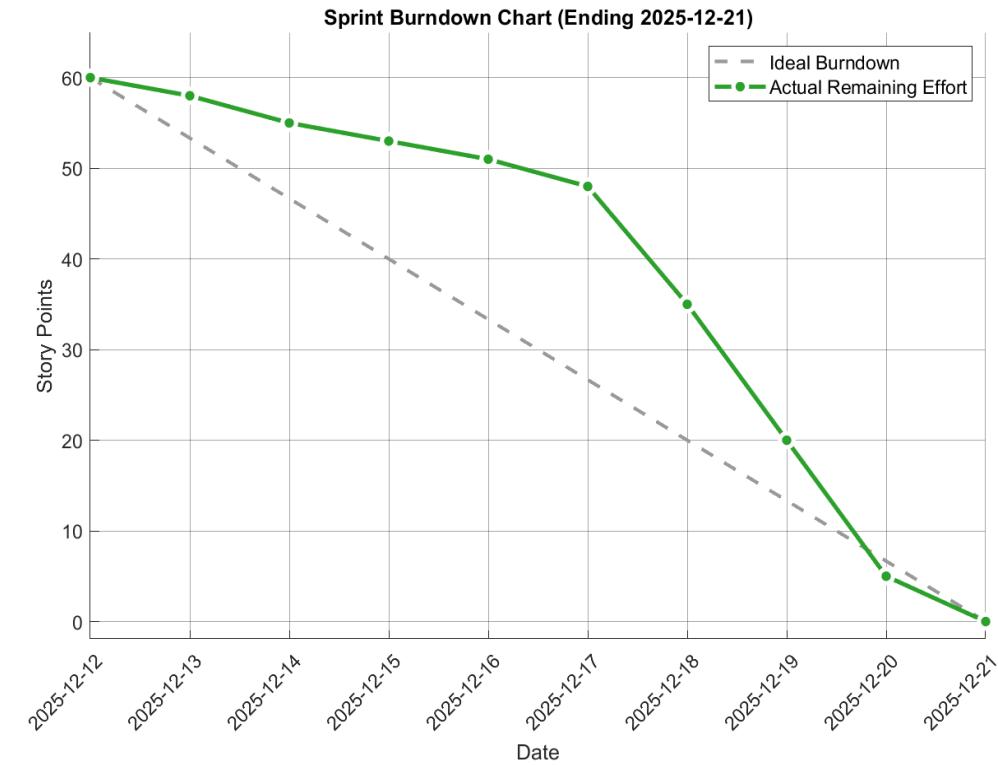
个人中心与数据库：已完成用户数据、签到和专注数据存储、会话管理权限的测试



FocusFlow



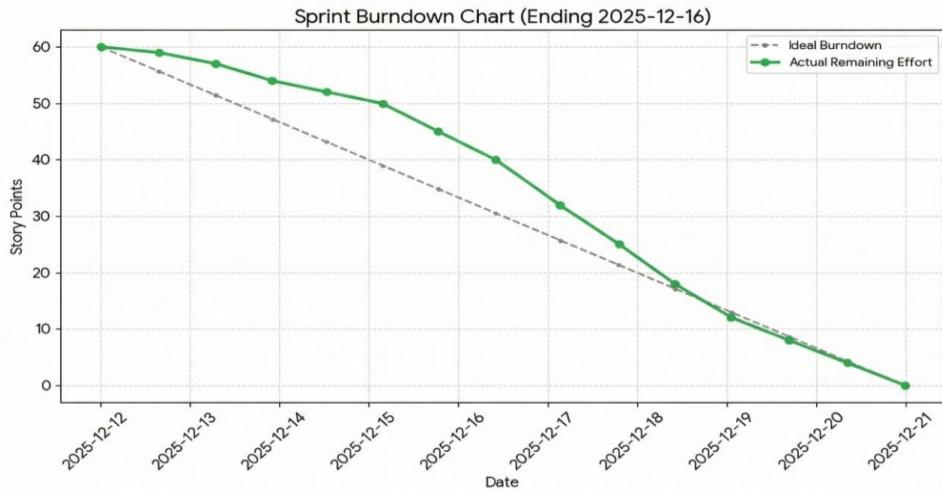
登录与个人中心模块



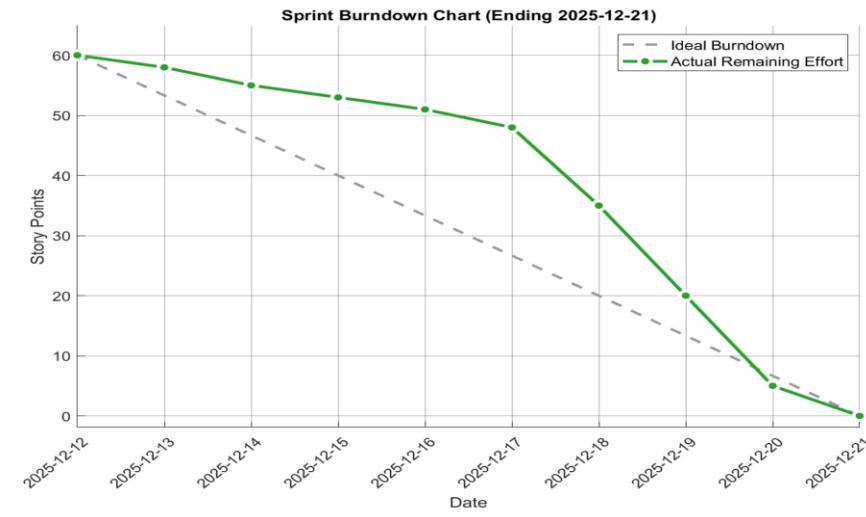
任务创建、删除与修改



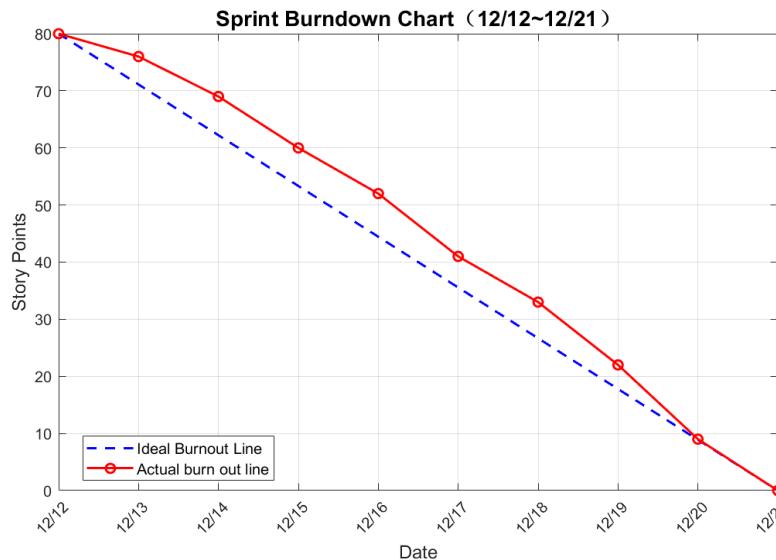
FocusFlow



专注模式与专注时间计时



主页功能



个人中心与数据库



03 挑战与不足

挑战与不足

用户体验细节不足：错误提示信息较为简略，批量查询和数据加载时的交互体验仍有改进空间。

错误提示信息不足：错误信息简略，缺乏详细提示，需增加用户友好的错误说明。

数据库查询效率低：在频繁查询或批量操作场景下，数据库响应时间偏长。索引设计和查询结构仍需进一步优化。

前后端协同问题：前后端在接口字段定义和数据格式上存在不一致情况，初期导致页面渲染异常。

异步请求性能问题：在并发请求或数据量较大时，部分页面响应速度慢。数据处理逻辑仍有优化空间。

第三方接口不稳定：快递查询等第三方接口存在响应延迟或不稳定问题，稳定性仍有提升空间。



04 总结及未来展望

总结

本项目已完成核心功能开发与测试，包括用户管理、数据查询、前后端交互及系统整体测试。系统功能完整，数据传输准确，整体运行稳定，达成了 Alpha Sprint 阶段目标。测试工作覆盖功能测试、集成测试及基础性能测试，为系统稳定性提供了保障。



性能优化：

- 优化前端加载策略，减少页面渲染时间。
- 引入缓存机制（如 Redis）与更合理的数据库索引设计，提升高并发场景下的响应能力。
- 持续完善系统可维护性和可扩展性。

用户体验提升：

- 丰富错误提示信息，提供更清晰的操作指引。
- 优化批量查询流程和交互逻辑，提升整体使用体验。

测试与维护：

- 引入更多自动化测试手段，减少回归风险服务器压力。
- 根据用户反馈持续优化系统功能与稳定性。



感谢聆听

汇报小组：FocusFlow

FocusFlow - 个性化学习管理与专注力提升平台