**第一周：项目启动阶段**

Resource allocation

在项目启动阶段，我主要负责了项目资源的规划与分配工作。通过与项目团队成员的深入讨论和协调，我全面梳理了项目所需的人力、技术及硬件资源，并制定了详细的资源分配方案。

人力资源分配方面，根据项目章程中的角色定义，明确了各团队成员的职责分工，并且建立了跨职能协作机制，协商沟通工具与沟通时间，确保各岗位高效配合。

技术资源规划方面，确认了采用Vue.js+Spring Boot的技术架构，分配服务器资源用于模型训练以及部署，确认了关键数据集的可用性。

基础设施准备方面，搭建了基于GitHub的代码管理环境，配置了团队协作平台（Feishu Docs+WeChat），建立了开发测试服务器环境。

该阶段工作总计耗时约10小时，为后续开发奠定了坚实的资源基础。

**第二周：项目计划阶段**

Detailed Requirements Specification

在项目计划阶段，我主导了详细需求规格说明书（Detailed Requirements Specification）的编制工作。通过系统分析项目目标和技术方案，将高层需求转化为可执行的技术规范。

在功能需求细化方面，基于RBS结构，将系统分解为七大功能模块，包括设备管理（实现设备选择，提供列表和筛选功能等），预测服务（对于设备进行健康状态及寿命预测）以及实时监控中心等。并且确认了每个功能模块的输入输出数据。

对于非功能需求方面也进行了有效定义，包括明确系统的性能指标：并发支持≥1000用户，预测响应时间≤3秒，系统可用性≥99.5%，并且制定了安全合规的需求。

在需求验证机制方面，建立了需求跟踪矩阵，并且组织了需求评审会议，与关键干系人协商讨论，并明确了最终方案。

本阶段工作总计投入10小时，形成的需求文档为后续设计和开发提供了明确依据。

**Week 1: Project Initiation Phase**  
**Resource Allocation**  
 During the project initiation phase, I was primarily responsible for planning and allocating project resources. Through in-depth discussions and coordination with the project team, I thoroughly assessed the human, technical, and hardware resources required for the project and developed a detailed resource allocation plan.

For **human resource allocation**, based on the role definitions in the project charter, I clarified the division of responsibilities among team members and established a cross-functional collaboration mechanism. Communication tools and schedules were agreed upon to ensure efficient coordination across all roles.

For **technical resource planning**, I confirmed the adoption of the **Vue.js + Spring Boot** technology stack, allocated server resources for model training and deployment, and verified the availability of key datasets.

For **infrastructure preparation**, I set up a **GitHub-based** code management environment, configured a team collaboration platform (**Feishu Docs + WeChat**), and established development and testing server environments.

This phase took approximately **10 hours** in total, laying a solid resource foundation for subsequent development.

**Week 2: Project Planning Phase**  
**Detailed Requirements Specification**  
 During the project planning phase, I led the drafting of the **Detailed Requirements Specification (DRS)**. By systematically analyzing project objectives and technical solutions, I translated high-level requirements into actionable technical specifications.

For **functional requirement refinement**, based on an **RBS (Requirements Breakdown Structure)**, the system was decomposed into seven functional modules, including:

* **Device Management** (enabling device selection with list and filtering functions),
* **Prediction Service** (providing health status and lifespan predictions for devices),
* **Real-time Monitoring Center**, and others.

Input and output data for each module were clearly defined.

**Non-functional requirements** were also effectively specified, including key performance indicators:

* Support for **≥1000 concurrent users**,
* **Prediction response time ≤3 seconds**,
* **System availability ≥99.5%**,

along with security and compliance requirements.

For **requirements validation**, I established a **requirements traceability matrix** and organized a **requirements review meeting** with key stakeholders to discuss and finalize the solution.

This phase required a total of **10 hours**, and the resulting documentation provided clear guidance for subsequent design and development.