

# AI Meeting Assistant: AI Agent–Driven End-to-End Automated Meeting Management System

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## 1. Background

Implementing Organization: MITS (XJTLU)

Through AI Agent implementation, one scenario per task, one sentence per task.

### **Issues in the original process:**

- **Fragmented systems:** Meeting scheduling required switching between multiple systems, including the calendar system, meeting room booking system, and email system, lacking a unified operation interface.
- **Low operational efficiency:** Manual operations involved complex steps, taking an average of 5–10 minutes to complete a single meeting arrangement, significantly impacting work efficiency.

- **Frequent human errors:** Manual operations often resulted in meeting room conflicts, missed emails, and scheduling conflicts.
- **Improper resource allocation:** Administrative staff spent a large amount of time on repetitive tasks and were unable to focus on higher-value strategic work.

Core pain point: Under the traditional office model, even simple meeting scheduling requires crossing multiple systems and multiple steps, becoming a key bottleneck constraining the improvement of administrative efficiency.

**Figure 8-1 Core pain point**

## 2. Solutions

Core technologies: AI Agent-based natural language interaction and multi-system integration

**Figure 8-2 Core technology**

### **Key Functional Design:**

- **Natural language instruction recognition:** Users can initiate schedule booking, meeting room booking, Tencent Meeting booking, and meeting invitation emails through simple conversations, eliminating complex system interface operations.

- **Intelligent schedule management:** Automatically creates meeting arrangements in the ehall schedule center, intelligently identifying and avoiding time conflicts.
- **Intelligent meeting room matching:** Automatically matches and books the most suitable meeting room resources based on meeting size, time slots, and equipment requirements.
- **Email automation:** Automatically generates standardized meeting invitation emails and accurately sends them to all relevant participants.
- **End-to-end process integration:** Achieves cross-platform and cross-application workflow automation, seamlessly integrating calendar systems, booking systems, and email systems.

#### **Process Optimization Approach:**

Original process: 5–10 minutes × 3 systems × multiple steps → Optimized process: 30 seconds × one conversation × fully automated execution

**Figure 8-3 Process Optimization**

The original multi-step manual operations requiring 5–10 minutes across three systems are revolutionarily simplified into a one-time natural language instruction, truly realizing the value leap from

“chatting” to “getting things done,” demonstrating the capability upgrade of AI Agent from Answering to Acting.

### 3. Outcomes and Benefits

#### Efficiency Improvement:

Meeting scheduling efficiency improved by 90%+ | Average daily time savings of 1–2 hours | Improved meeting room utilization 15%

**Figure 8-4 Efficiency Improvement**

- Significant reduction in operation time: Meeting arrangement time reduced from 5–10 minutes to within 30 seconds, achieving over 90% efficiency improvement.
- Human resource optimization: Each administrative staff member saves approximately 1–2 hours of repetitive work per day.
- Optimized resource utilization: Meeting room utilization increased by approximately 15%, reducing idle resources through intelligent matching.

#### Accuracy Improvement:

Meeting conflict rate  $\approx$  0% | Email notification delivery rate 100% | Human error elimination rate 100%

### **Figure 8-5 Improvement in Accuracy**

- Significantly reduced error rate: Complete elimination of human operational errors, with meeting conflict rates reduced to near zero.
- Complete notification coverage: Email omission issues fully resolved, achieving a 100% notification delivery rate to participants.

### **Management Value Demonstration:**

- Enhanced personnel value: Administrative staff are fully freed from low-value repetitive labor and can focus on strategic and creative work.
- Organizational efficiency optimization: Significantly improves organizational collaboration efficiency and standardization of meeting management.
- Validation of technical concept: Successfully demonstrates the core value leap of AI Agent from "Answering" to "Acting."

### **Technical Demonstration Value:**

- Business model innovation: Successfully implements the RaaS

(Result-as-a-Service) business model.

- Application scenario validation: Fully validates the practicality and feasibility of AI Agent in administrative scenarios within educational institutions.
- Core concept proof: Strongly demonstrates the forward-looking concept that “delivery capability > model intelligence.”

## 4. Replicability and Promotion Value

### **High Replicability:**

- Scenario universality: Meeting management scenarios are widely present across organizations such as enterprises, government agencies, hospitals, and schools.
- Technical generality: The technical solution has strong general applicability and portability, enabling rapid adaptation to different institutions’ OA systems and office environments.

### **Promotion Potential:**

- Horizontal expansion: Can be seamlessly extended to more administrative office scenarios, such as travel applications, reimbursement approvals, asset management, and procurement processes.
- Platform integration: Can be deeply integrated with mainstream collaboration platforms such as DingTalk, WeCom, Feishu, and

Teams.

- Scalability adaptation: The technical architecture supports elastic scaling and is suitable for organizations of different sizes, from small enterprises to large groups.

**Industry Demonstration Effect:**

- Benchmark case: As a benchmark case of AI Agent application in the education sector, it has significant demonstration and leading value.
- Transformation pathway: Provides other institutions with referenceable and replicable implementation pathways and methodologies for digital transformation.

## 5. Next Steps

Functional Expansion:

- Enhanced intelligence: Add advanced features such as automatic meeting agenda generation, intelligent meeting minutes organization, and automatic meeting effectiveness analysis.
- Deeper system integration: Integrate with more campus management systems, such as visitor management, equipment borrowing, and venue application systems.
- Optimized interaction experience: Support bilingual Chinese-English

interaction to enhance user experience in an internationalized education environment.

### **Intelligent Upgrade:**

- Personalized services: Learn meeting habits based on users' historical data to provide personalized intelligent recommendations and predictions.
- Data-driven optimization: Add meeting effectiveness analysis and resource optimization recommendations to continuously improve management efficiency.

### **Scaled Promotion:**

- Campus-wide deployment: Achieve systematic promotion and application across the entire XJTLU campus.
- Industry output: Export mature solutions and implementation experience to other universities and educational institutions.
- Commercialization exploration: Explore standardized productization pathways to form a commercially operable AI Agent service platform.

### **Vision Goal:**

To build the MITS personal assistant into a benchmark product for AI Agent in the administrative office domain, driving the industry's strategic shift from a "model arms race" to "practical value

delivery," and truly realizing inclusive application and value creation of AI technologies.