Case Study

Automated Meeting Summaries with MCP & LLM Chat Assistants

SpringCT collaborated with a global enterprise to build AI based intelligent meeting summarization system that enable users to get concise conversational summaries, action-items, and follow-ups from video meetings, integrated via MCP LLM chat interface that even allowed connecting with other sub systems.

Product Features

- **Contextual Summary Generation**
  Transforms recorded video and transcript of a meeting into key takeaways, action items, and decisions made that users can access via chat interface.
- **Interactive Chat-Assistant Access**
  Users can query the meeting content in natural language such as "What were the decisions?", "Which action items are assigned to me?", etc.—via a chat interface powered by an LLM, which refers back to the MCP server's context layer.
- **Integration with Third-Party Platforms**
  By combining LLM with MCP, enterprises can seamlessly integrate collaboration workflows with platforms like Microsoft Teams, Zoom, or Jira—enabling users to not just review meeting insights but also take follow-up actions directly within their existing tools.

Key Technical Achievements

- **Multi-Modal Data Alignment**
  Capturing and aligning multi-modal meeting data (video, audio, transcription) with context (who's speaking when) and exposing it to LLMs without losing role/speaker detail.
- **Privacy & Security**
  Ensuring privacy, especially when meetings involve sensitive information, while retaining enough context for useful summaries.
- **Cross-Platform Integration**
  Integration of MCP server as the central context aggregator across different UC platforms (Teams, Zoom etc.), handling differing metadata, APIs, and authentication.

Technologies Used

- MCP server framework (custom context layer), managing session, participant, speaker role, and transcript metadata.
- **Large Language Models:** OpenAI or on-premises LLM for summarization and conversational QA.
- **Whisper Speech-to-Text:** Transcription services for converting meeting audio to text.
- **WebSockets:** Real-time data delivery between clients, MCP server and LLM modules.
- **Encryption & Access Control:** Role-based security to protect meeting content and ensure privacy/compliance.

Results

- **Time Saved & Productivity Boost:** Access to meeting summaries at one place instead of reviewing full meeting recordings or transcripts.
- **More Actionable Meetings:** Action items and decisions clearly defined and easily accessible through conversational interface.
- **Scalable Across Platforms:** Successfully integrated across Teams, Zoom, and mobile, with usage scaling to hundreds of meetings per week.

Conclusion

SpringCT's solution for meeting summarization demonstrates our ability to build advanced MCP-based systems that combine real-time context, LLMs, and UC client integrations to deliver clear business benefits. By doing so, we help enterprises turn their meeting content into actionable knowledge, reduce follow-up friction, and improve clarity in decision making.