

COMP 019 - Applications Development and Emerging Technologies

Project Development Phase

SESSION 16: FINAL PRESENTATION & DEFENSE

ACTIVITY 16.1: PROJECT PRESENTATION

Topic: Present your AI-powered application

Description: Deliver professional presentation showcasing your project

INSTRUCTIONS:

Prepare presentation (15-20 slides):

- Problem statement and motivation
- Solution overview
- System architecture
- Technologies used:
 - Django + PostgreSQL
 - REST API
 - MCP integration
 - Pgvector + RAG
 - A2A (if implemented)
- Key features demonstration
- AI-powered features showcase
- Challenges and solutions
- Future improvements

Deliver 15-minute presentation:

- Clear explanation
- Professional delivery
- Time management

Deliverables: Deliver presentation and submit slides

35 Points

ACTIVITY 16.2: LIVE DEMO AND Q&A

Topic: Demonstrate working application and answer questions

Description: Show your application working and defend technical decisions

INSTRUCTIONS:

Live demonstration:

- Show core functionality (CRUD)
- Demonstrate API endpoints
- Show AI-powered features:
 - MCP tools in action
 - Vector search / RAG

- Intelligent responses
 - Show cloud deployment
- Technical Q&A:
- Explain architecture decisions
 - Discuss technology choices
 - Explain MCP/A2A implementation
 - Discuss challenges faced
 - Propose future enhancements
- Be prepared to:
- Debug issues on the spot
 - Explain code sections
 - Discuss alternative approaches

Deliverables: Successfully demonstrate application and answer questions

40 Points

ACTIVITY 16.3: PORTFOLIO SUBMISSION AND PEER REVIEW

Topic: Final submission and evaluation

Description: Submit complete project portfolio and evaluate peers

INSTRUCTIONS:

- GitHub repository submission:
- Clean, organized code
 - Complete README.md
 - Installation instructions
 - Environment setup guide
 - API documentation
 - Live demo link

Portfolio contents:

- Source code (all components)
- Database schema
- Documentation package
- Presentation slides
- Demo video (2-3 minutes)

Peer evaluation:

- Evaluate 2 classmates' projects
- Score based on rubric
- Provide constructive feedback

Self-reflection:

- Key learnings
- Skills developed
- How emerging tech changed your perspective

Milestone: 100% complete

Deliverables: Submit complete portfolio and peer evaluations

30 Points

TOTAL POINTS: 105