Project: Digital Forensics Agent System (DFAS)

Group C – Weekly Meeting Notes

Module: Intelligent Agents

Team Members:

Koulthoum Flamerzi

Majed Alzaabi

Mariam Almarzooqi

Week 1 – Project Kickoff & Team Contract

Date: 09 August 2025

- - All team members reviewed and agreed on the Team Contract with defined roles:
- - ✓ Koulthoum Flamerzi – Project Lead (oversees timelines and coordination)
- - ✓ Majed Alzaabi – Lead Developer (agent logic, system integration)
- - ✓ Mariam Almarzooqi – Research & Documentation (standards, testing, reporting)
- - Finalised project title: Digital Forensics Agent System (DFAS).
- - Established communication channels via Microsoft Teams and WhatsApp.
- - Agreed to hold weekly meetings on Mondays.
- - Set up GitHub repository for version control and Trello board for task tracking.
- - Adopted Agile methodology with 6-week timeline.

Attendance

Name	Attendance Status
Koulthoum Flamerzi	Attended
Majed Alzaabi	Attended
Mariam Almarzooqi	Attended

Week 2 – System Requirements & Architecture Planning

Date: 13 August 2025

- - Discussed key system components: Discovery Agent, Processing Agent, Packaging Agent, Transport Agent.
- - Selected Python 3.11 with required libraries (watchdog, yara-python, libmagic, cryptography, SQLite).
- - Planned architecture based on BDI agent model for clarity and modularity.
- - Outlined Agile sprint breakdown: Sprint 1 - Discovery & Processing; Sprint 2 - Packaging & Transport; Sprint 3 - Testing & Validation.

Attendance

Name	Attendance Status
Koulthoum Flamerzi	Attended
Majed Alzaabi	Attended
Mariam Almarzooqi	Attended

Week 3 – Agent Design & Methodology Finalization

Date: 17 August 2025

- - Finalized BDI-inspired agent design (Orchestrator, Discovery, Processing, Packaging, Transport).
- - Implemented preliminary Discovery Agent for file scanning using libmagic and filters.
- - Defined Prometheus AOSE artifacts (goals, roles, scenarios, data).
- - Aligned methodology with ISO/NIST/ACPO standards for digital evidence handling.
- - Drafted initial UML sequence diagram and processing pipeline.

Attendance

Name	Attendance Status
Koulthoum Flamerzi	Attended
Majed Alzaabi	Attended
Mariam Almarzooqi	Attended

Week 4 – Challenge Mitigation & Integration

Date: 24 August 2025

- - Addressed performance issues with large file volumes by integrating multi-threading and caching.
- - Developed YARA pattern scanning policy for triage mode.
- - Integrated AES-GCM encryption for packaging to ensure confidentiality.
- - Reviewed compliance with ISO/IEC 27037 and NIST SP 800-86.
- - Finalized chain-of-custody logging structure.

Attendance

Name	Attendance Status
Koulthoum Flamerzi	Attended
Majed Alzaabi	Attended
Mariam Almarzooqi	Attended

Week 5 – Report Drafting & Presentation Prep

Date: 31 August 2025

- - Drafted Results and Methodology sections of the final report.
- - Completed Packaging Agent with encrypted archiving and metadata logging.
- - Conducted dry run presentation of system design, workflow, and ethical considerations.
- - Prepared demonstration scenario showcasing Discovery → Processing → Packaging → Transport workflow.

Attendance

Name	Attendance Status
Koulthoum Flamerzi	Attended
Majed Alzaabi	Attended
Mariam Almarzooqi	Attended

Week 6 – Final Review & Submission

Date: 06 September 2025

- - Performed final code review and testing (hash accuracy, evidence integrity checks).
- - Verified compliance with encryption and logging standards.
- - Mariam completed reference formatting and appendices.
- - Koulthoum submitted the report and GitHub repository.
- - Final presentation rehearsal focused on agent communication and evidence handling standards.

Attendance

Name	Attendance Status
Koulthoum Flamerzi	Attended
Majed Alzaabi	Attended
Mariam Almarzooqi	Attended

Summary

The team successfully followed Agile sprints to develop and document the DFAS system. All modules (Discovery, Processing, Packaging, and Transport Agents) were implemented in alignment with ISO/NIST/ACPO standards, ensuring a structured and auditable digital forensics process.