⭐ ELIAS – Day 10 (Thursday) Official Work Plan

(8 PM – 10 PM Work Session)

Theme: Strengthening NLP + Starting Real Vision Work

❎ Team Roles for the Day

Member	Role	Focus Today
M S	Lead & Integrator	UI preparation + plugin consistency
S S	NLP Developer	Extend Intent Categories
A K	Vision Engineer	Start real face-detection model
R A	Plugin Dev	Add 1–2 real utility plugins
M A	Documentation	Update model + plugin docs

🟦 1. M S — Lead & Integrator

Tasks

✔️ Set up skeleton Streamlit app folder:

/ui/app.py

/ui/components/

✔️ Create minimal UI placeholder (text input + output box)

✔️ Connect Streamlit → backend (local import only, no logic yet)

✔️ Clean project tree and ensure imports work

Expected Output

- Streamlit UI opens with:
    - "Enter command" input box
    - Printed result area
- No full front-end logic yet — just skeleton.

🟩 2. S S — NLP Developer

Tasks

✔️ Add 3 new intent groups:

- System commands

- Basic utilities

- Music / media

Examples:

"what time is it"

"what's the date"

"calculate 5+8"

"play song lofi"

"increase volume"

✔️ Add token prefilter keywords for each new intent
✔️ Ensure **hybrid NLP** remains optimized

Expected Output

- NLP now handles ~10 intents

- Returns structured entities for all new ones

🟪 **3. A K — Vision Engineer**

Tasks

✔️ Install & prepare dependencies:

- opencv-python

- mediapipe (optional)

- face_recognition (if GPU ok)

✔️ Create **real detect_face()**:

- Load Haar cascade OR dlib HOG model

- Turn on webcam

- Detect face → return boolean

✔️ Save file as:

src/vision.py

Expected Output

- Running detect_face() shows:

- Face: Detected / Not Detected

- No authentication yet — just detection.

🟧 **4. R A — Plugin Developer**

Tasks

✔️ Add ONE of the following plugins:

Plugin options:

1. System volume control

2. System brightness

3. Local music player

4. Wikipedia quick search

5. Weather fetcher (API-free local data)

✔️ Keep code optimized & modular
✔️ Ensure proper return structure

Expected Output

- One new working plugin

- Uses clean code, small functions

🟨 **5. M A — Documentation & QA**

Tasks

✔️ Update NLP document with new intents
✔️ Update plugin reference list
✔️ Create Day 10 log
✔️ Write "Vision — PART 1 doc"

Expected Output

- Documentation remains ahead of the code

- Day 10 log completed

- Vision notes prepared for Day 11

🎯 **End-of-Day Expected Outcome**

By end of Day 10, team should have:

✔️ Basic Streamlit UI skeleton
✔️ 3 new NLP intent categories
✔️ Real face detection (basic)
✔️ 1 new functional plugin
✔️ Updated documentation

You now enter **full integration phase from Day 11–Day 14**.