⭐ **ELIAS – Day 6 (Sunday) Official Work Plan**

(Full Day — Final Heavy Development Sprint)

Theme: UI + Integration + Debugging + Polishing

❎ **Team Roles (Reference Only)**

Member	Role	Responsibility
M S	Project Lead & Integrator	UI integration, final routing, overall system stability
S S	NLP Developer	Improving intent accuracy, fallback system
A K	Vision Engineer	Face recognition polishing & stability
R A	Plugin Developer	Adding missing plugins + polishing old ones
M A	Documentation & QA	Testing, documentation, screenshots, user manual

🖼️ **Sunday Tasks (Day 6 — Final Build Day)**

🟦 **1. M S — Project Lead & Integrator**

Goal: Build the first "complete" version of ELIAS with UI + routing + stability.

✔ **Tasks (High importance)**

1. **Integrate everything into the UI (Streamlit or simple UI)**
   Build a page with:

   o Text input

   o "Run command" button

   o Output display

   o Vision authentication status

2. Update app.py so it can be called from UI, not only CLI
   Example:

3. result = parse_intent(user_input)

4. output = route_intent(result)

5. **Add Logging Layer**

- input

- intent

- entity

- timestamp

- plugin used

6. **System-wide error handling**

   - NLP errors

   - Plugin fails

   - Face detection fails

7. **Run full end-to-end tests**

   - open website

   - YouTube search

   - create note

   - google search

   - face authentication

8. **Fix integration issues across modules**

✔ Expected Output

✔ UI running
✔ System stable
✔ Logs recorded
✔ All modules connected properly
✔ ELIAS ready for final polishing week

🟩 **2. S S — NLP Developer**

Goal: Make NLP robust, smooth, and presentation-ready.

✔ **Tasks**

1. Add **fallback AI logic**:

- When intent unknown → return helpful suggestions
  Example: "Did you mean: open website?"

2. Add 3 more intents (light):

  - "what's the time"

  - "clear notes"

  - "who made you"

3. Improve regex:

  - handle extra spaces

  - mixed casing

  - natural queries ("can you please...")

4. Build small NLP diagnostics:

  - Testing 30+ sentences and verifying outputs

5. Send corrected intent list to M S for routing.

✓ Expected Output

✓ NLP engine polished
✓ Fallback system working
✓ Intent coverage ~12–15 commands
✓ Ready for final week fine-tuning

🟪 3. A K — Vision & Authentication Engineer

Goal: Make face-recognition reliable for demo conditions.

✓ Tasks

1. Improve stability:

  - smoother detection

  - adjust thresholds

  - avoid false detections

2. Add **lighting-condition message**

3. "Face detected but low lighting — please adjust"

4. Add **"face registered?" check**

5. Add **auto-capture feature**:

   o When user clicks "Register Face" → save image

6. Test on:

   o bright light

   o low light

   o side angles

7. Deliver final detect_face() to M S

✓ Expected Output

✓ Face authentication demo-ready
✓ Vision module stable
✓ Clear error messages

🟧 4. R A — Plugin/Action Developer

Goal: Complete all plugins + ensure they behave like real assistant actions.

✓ Tasks

1. Finalize all important plugins:

   o youtube_search

   o google_search

   o play_music

   o create_note

   o clear_note

   o open_website

2. Add try/except to each plugin to avoid system crashes

3. Add logs from plugins

4. Test each plugin using app.py AND the UI

5. Add 1–2 bonus plugins if time:

- o   weather check (dummy text)

- o   system info

✓ Expected Output

✓ All plugins fully functional
✓ Tested from UI
✓ Stable and safe to run

🟨 5. M A — Documentation & QA

Goal: Turn the system into a presentable, demo-ready project.

✓ Tasks

1. Update documentation:

    - o   docs/user_manual.md

    - o   docs/setup_guide.md

    - o   docs/demo_script.md

    - o   docs/system_architecture.md

2. Add screenshots:

    - o   app UI

    - o   folder structure

    - o   system running commands

    - o   face detection

3. Create a **Bug Report File**

4. docs/bug_list.md

5. Test all features:

    - o   10 test runs

    - o   note failures

    - o   note improvements

6. Write Day 6 Log File

✔ Expected Output

✔ Professional documentation

✔ Full QA set

✔ Demo script nearly ready

✔ Screenshots ready for presentation

🎯 **Sunday End-of-Day Final Expected State**

By end of Day 6, the team must have:

✔ Complete working prototype

✔ UI built

✔ NLP polished

✔ Vision system reliable

✔ All plugins complete

✔ Logging system working

✔ Full documentation prepared

✔ Demo script started

This completes **Phase 1: Development**.

Next week is **Phase 2: Polishing + Testing + Presentation**.