

Session summary

Session 8 · Tuesday 14 July 2026 · Full-stack build: chatbot + MCP integrations · Lecturer: Victor del Rosal

WHAT WE COVERED

- **Full-stack anatomy, end to end:** the front end (chat page), the back end, and tools; how the pieces of a modern AI service fit together.
- **MCP in practice:** continuing from last week, giving your chatbot live tools and real, dynamic data rather than a frozen copy.
- **Live build on Meadow Vet Care:** added an Irish public holiday check (are you open Monday?) and weather-triggered engagement using feels-like temperature (is it too hot to walk my dog right now?).
- **Simulated user panel:** created a virtual panel of simulated users to propose and prioritise new features, then built the winner (a cost estimator) live, from prompt to deployed.
- **Working responsibly:** data compliance and GDPR caveats for real-world projects; prefer safer project domains where in doubt.
- **The working rhythm:** build and test each service on its own first, then wire it into the chatbot; feed errors (and screenshots) back to the AI; iterate rather than one-shot.

YOUR ASSIGNMENT THIS WEEK

Meadow Vet Care is a modern Irish vet clinic (dogs, cats, rabbits, small mammals, birds) with 90+ services. Last week we gave it the clinic's Google Sheet. Now add:

1. Automatically check for Irish public holidays, e.g. are you open Monday?
2. Check for weather-triggered engagement, e.g. is it too hot to walk my dog right now?

Then create a virtual panel of simulated users to see what other features would be useful, and add them. Keep iterating. Deploy all services to a GitHub page and submit via Moodle.

Due **Monday 20 July, 10:00 PM** · submit via the 14 July Moodle link

DATES AND MARKS

COMPONENT	WEIGHT	KEY DATES
CA1	10%	Completed
CA2	20%	Releases Tue 28 July · due Mon 3 August
Final project	70%	Details in the closing weeks

KEY LINKS

- ↗ **Session page (video, transcript, AI helper):**
ceai-session.pages.dev
- ↗ **Live data · Google Sheet:**
linked on the session page
- ↗ **Live examples:**
victordelrosal.com/meadow-vet-care · iris.kluxy.app
- ↗ **Submit coursework:**
moodle2025.ncirl.ie · 14 July assignment

If you get stuck: it is normal to feel overwhelmed when things do not work first time. Feed errors back into your AI, take screenshots, drop them in, come back later if needed. Keep tinkering and testing; it is not a one-shot process. The AI helper on the session page is there for questions, no question too small.