🍜 VivaNoodle

AI-powered viva/oral assessment for any LTI-enabled LMS

VivaNoodle is a next-generation assessment tool that brings authentic viva-style oral examinations into any Learning Management System that supports **LTI 1.3**.

Designed for universities, colleges, and professional training providers, VivaNoodle uses AI to generate personalised viva questions based on a learner's own submitted work. Tutors gain deep insights, while students experience meaningful, conversational assessment.

VivaNoodle works with:

- Canvas
- Moodle
- Blackboard
- Brightspace
- D2L
- Sakai
- OpenLMS
- Any IMS-certified platform

🌟 Key Benefits

🎓 Authentic Assessment at Scale

VivaNoodle analyses the student's submission and dynamically generates probing questions—simulating a real viva examination.

🔍 Academic Integrity Monitoring

Every session logs: - keystrokes
- copy/cut/paste events
- tab switches
- focus/blur behaviour
- suspicious patterns

Flags can be generated automatically.

👩‍🏫 Instructor Dashboard

Instructors can: - review all viva submissions
- inspect transcripts
- analyse behaviour logs
- toggle anonymous/deanonymised review
- export data for moderation

🔐 LTI 1.3 Secure Integration

No separate login. VivaNoodle launches inside your existing LMS using secure, standards-based authentication.

🧩 Architecture

- Works alongside any LMS that supports LTI 1.3
- No secrets stored in environment variables
- All LTI config stored in a UI-managed **ToolConfig** model
- Supports multiple LMS connections simultaneously
- JWKS-backed cryptographic signing
- Easily deployable in academic environments

💡 Origin & Vision

The original concept for VivaNoodle was created by **Simon Bell**.
The platform has since evolved into a robust AI-powered assessment system focusing on authenticity, academic integrity, and student experience.

📘 Installation & Setup

Technical setup instructions—including key generation, Canvas example configuration, and creating ToolConfig entries—are available in:

👉 **SETUP.md**

📄 License

MIT License.