

AI Grader Pro

User Manual (繁體中文 / English)

i 寫給老師的使用手冊

- 你只要照著「一步一步」做，就能完成：出題 / 列印/發給學生 / 上傳掃描答案 / **AI** 閱卷 / 下載報表。
- 最重要的前置需求：需要先安裝 **LaTeX**。(Mac: MacTeX; Windows: MiKTeX)
- Linux 版本: **To Be Released Soon!**

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1 簡介

AI Grader Pro 可以協助你完成什麼？

- 出題中心：建立新試卷、載入既有草稿、以 LaTeX 進行排版，並可搭配 AI 輔助生成題目與參考解答。
- 閱卷中心：上傳學生作答 PDF、進行辨識與版面分析、建立或編輯評分標準，依 Rubric 逐題評分並自動產生成績。
- 報表與歷史紀錄：下載完整報告 (ZIP)、查看班級分數統計、各題表現分析、批次歷史、成本與 token 使用資訊，方便後續教學調整與成績複核。

建議操作順序 (首次使用請依序完成)

首次啟動建議流程：授權啟動 → 登入 → Home (選擇工作模式) → API 金鑰設定 → 出題 → 閱卷 → Report → History。

本手冊後續章節亦依此順序安排，方便第一次使用的老師逐步完成整體流程。

2 系統需求：硬體 + 軟體

2.1 共同需求 (所有平台)

- 網路連線：建議可穩定連線至網際網路，以便進行 AI 模型請求與相關雲端服務。若校園網路有限制，請參閱「錯誤排除」章節。
- 檔案格式：學生作答檔建議使用 PDF 格式 (掃描文件或拍照後轉成 PDF)。
- **LaTeX** 環境：若需出題或輸出 PDF，系統需能呼叫 XeLaTeX，因此必須預先安裝 LaTeX 系統 (MacTeX / MiKTeX)。

2.2 macOS (Mac)

項目	建議 / 最低需求
作業系統	macOS 13 以上
CPU	Apple Silicon M1 以上
記憶體	建議 16GB (最低 8GB)
硬碟空間	App 與暫存檔至少 5GB；若安裝 MacTeX，需額外約 6GB 以上空間
必要軟體	MacTeX (含 XeLaTeX)；繁體中文用戶建議另安裝 cwTeX TTF 字型

2.3 Windows

項目	建議 / 最低需求
作業系統	Windows 10 / 11 (64-bit)
CPU	Intel / AMD 64-bit
記憶體	建議 16GB (最低 8GB)
硬碟空間	App 與暫存檔至少 5GB；MiKTeX 會依安裝套件增加空間需求
必要軟體	MiKTeX (建議啟用自動安裝缺少套件)；繁體中文用戶建議另安裝 cwTeX TTF 字型

2.4 Linux (建議 Ubuntu)

Linux 版本說明

Linux: To Be Released Soon!

目前建議優先使用 macOS 或 Windows 版本。待 Linux 版本正式發布後，本手冊將補充安裝流程與相容性說明。

3 安裝教學

3.1 Step 0: 先安裝 LaTeX (最重要)

為什麼一定要先安裝 LaTeX?

若你需要使用「出題」功能或輸出 PDF，AI Grader Pro 會呼叫 XeLaTeX 進行編譯。若系統中沒有可用的 LaTeX 環境，常見錯誤會包括 `xelatex not found` 或 PDF 編譯失敗。

macOS: 安裝 MacTeX

macOS

1. 前往 [MacTeX 官方網站](#) 下載安裝程式。
2. 執行安裝程式並完成安裝，安裝時間可能稍長。
3. 安裝完成後，打開「終端機」輸入：`xelatex -version`。若能看到版本資訊，即表示安裝成功。
4. 繁體中文用戶建議額外安裝 `cwTeX-ttf` ([下載連結](#))，可獲得較佳的中文排版效果。

Windows: 安裝 MiKTeX

Windows

1. 前往 [MiKTeX 官方下載頁](#) 下載並安裝 MiKTeX。
2. 安裝時或第一次使用時，請設定：**Install missing packages on-the-fly = Yes**。
3. 打開「命令提示字元」輸入：`xelatex -version`。若能看到版本資訊，即表示安裝成功。
4. 繁體中文用戶建議額外安裝 `cwTeX-TTF` ([下載連結](#))，可獲得較佳的中文排版效果。

3.2 Step 1: 安裝 AI Grader Pro (App)

安裝方式相當簡單

- 可前往 [AI Grader Pro 下載頁面](#) 取得最新版本。
- macOS: 雙擊 `AIGraderPro-mac-arm64.dmg`，掛載後將 App 拖曳至「Applications」資料夾。
- Windows: 執行 `AIGraderPro-Windows-x64.exe` 安裝程式，依畫面指示完成安裝。

3.3 Step 2: 第一次啟動（授權 → 登入）

2-1. 授權啟動（System Activation）

完成啟動後才能使用系統

1. 開啓 **AI Grader Pro** 後，首先會看到「系統授權設定」頁面。
2. 複製你的 **Machine ID**（裝置指紋）。
3. 聯絡客服取得授權碼（通常格式如 **AGP-XXXX-XXXX-...**）。客服信箱: fh.humane@gmail.com。
4. 勾選 **I have read and agree...**，貼上授權碼後按下 **Activate**。

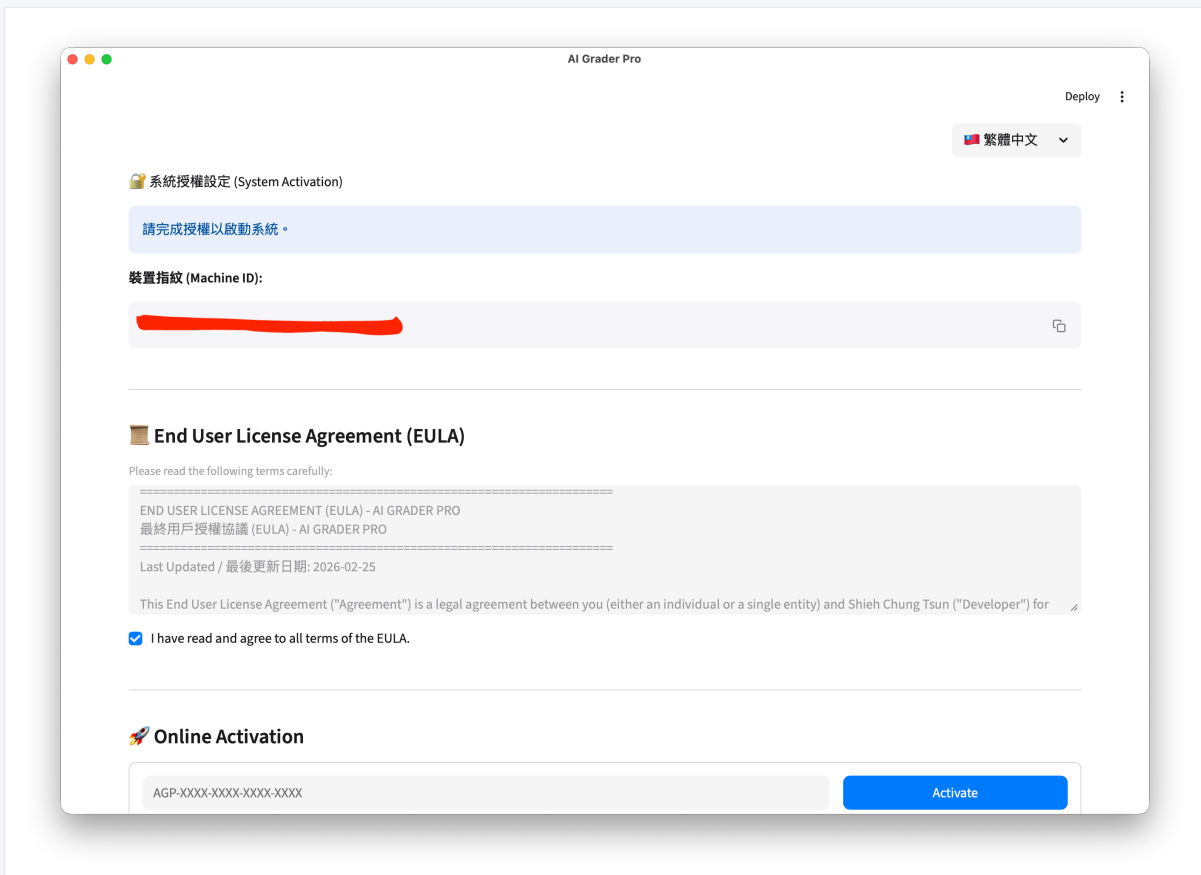


Figure 1: 系統授權設定（System Activation）

2-2. 登入（Login）

首次登入可使用預設帳號與密碼

1. 帳號: **admin**
2. 密碼: **admin123**
3. 輸入畫面上的安全驗證算式後，按下 **登入**。

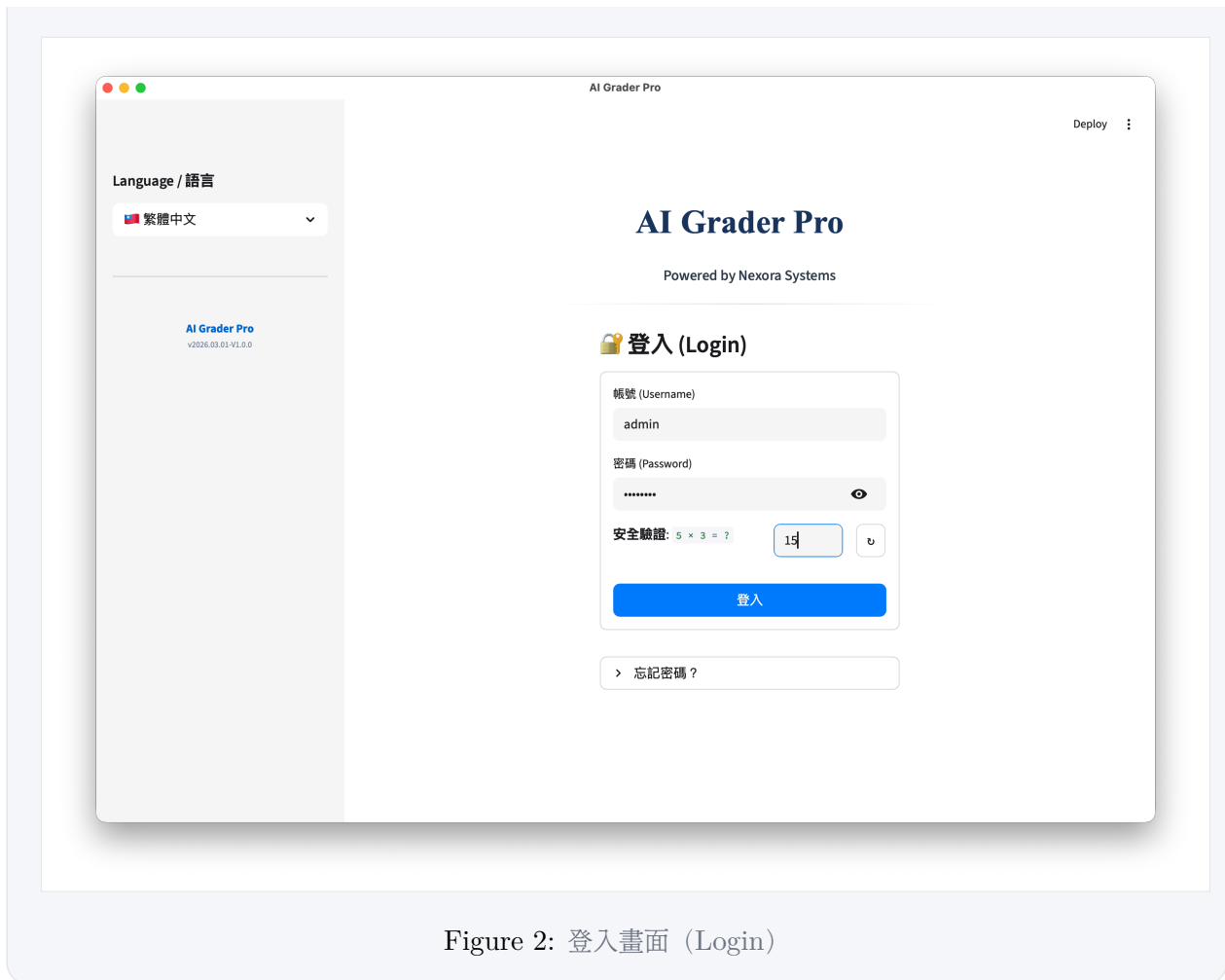


Figure 2: 登入畫面 (Login)

4 快速上手

4.1 Home: 選擇你的工作區

🏠 Home 主要分成兩個工作模式

出題中心: 用來設計試卷、調整 LaTeX 排版並輸出考卷。

閱卷中心: 用來上傳學生作答、執行 AI 批改並產出成績報表。

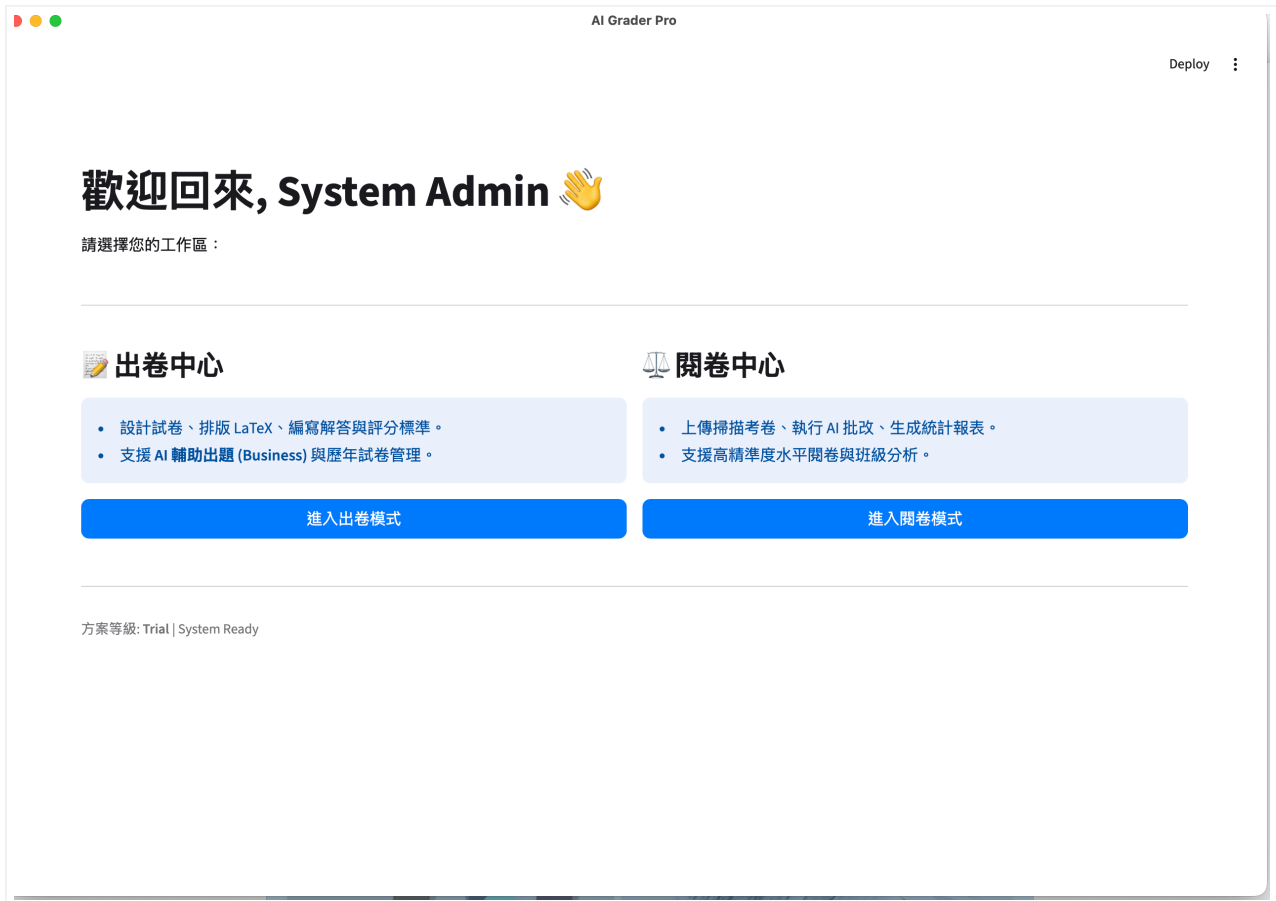


Figure 3: Home (出題中心 / 閱卷中心)

4.2 API 金鑰設定 (必要)

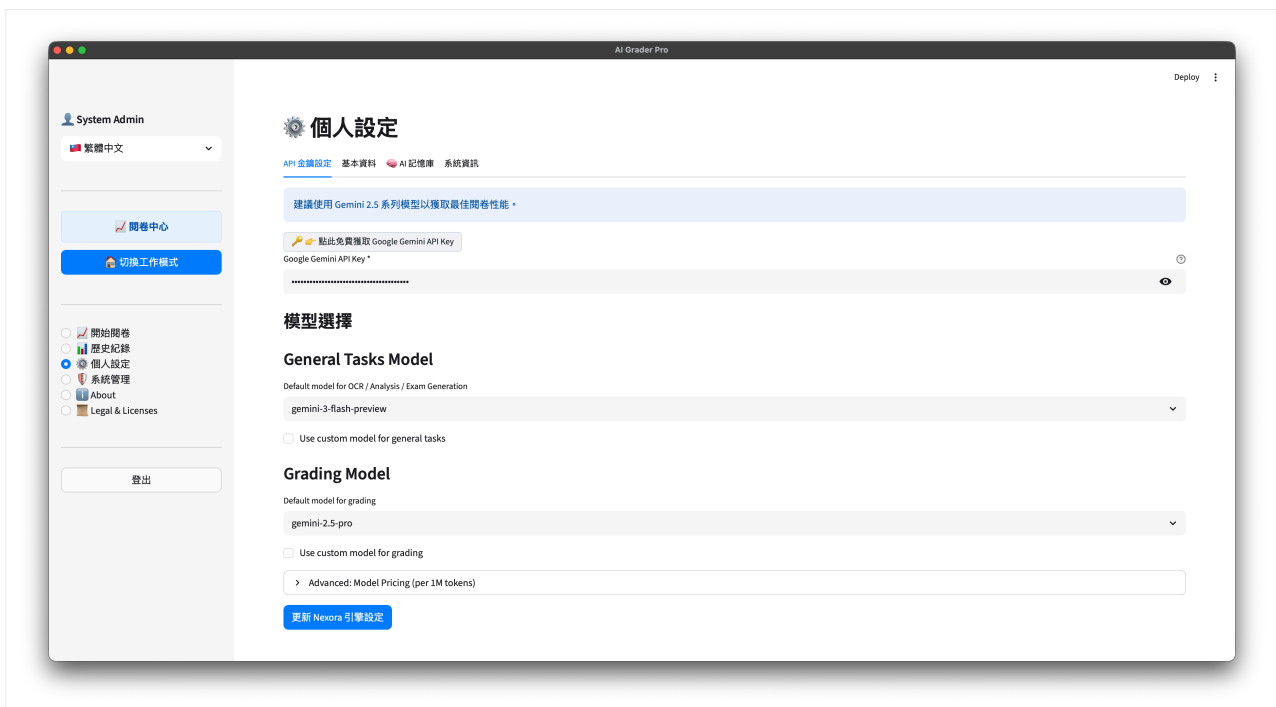


Figure 4: 個人設定 / API 金鑰設定

操作步驟：

1. 左側選單 / 個人設定
2. 上方頁籤 / API 金鑰設定
3. 貼上 Google Gemini API Key
4. 點擊 **更新 Nexora 引擎設定**

若未完成 API Key 設定，AI 閱卷功能將無法使用。

4.3 專業流程雙平行圖（出題 / 閱卷）



Figure 5: 雙平行流程圖（出題 / 閱卷）

5 完整操作流程

5.1 A. 出題（出題中心）

A-1. 進入出題中心

Home → 出題中心

- 在 Home 畫面點選 **進入出卷模式**。
- 左側選單會出現 考卷生成、我的試卷庫等相關功能。

A-2. 建立新試卷

考卷生成頁面

1. 按下 **建立新試卷**。
2. 設定 考卷標題、科目、學年度、學期、試卷類型。
3. (可選) 展開 **AI** 生成區塊並輸入出題需求。
4. 確認 輸出格式與 試卷表頭設定。

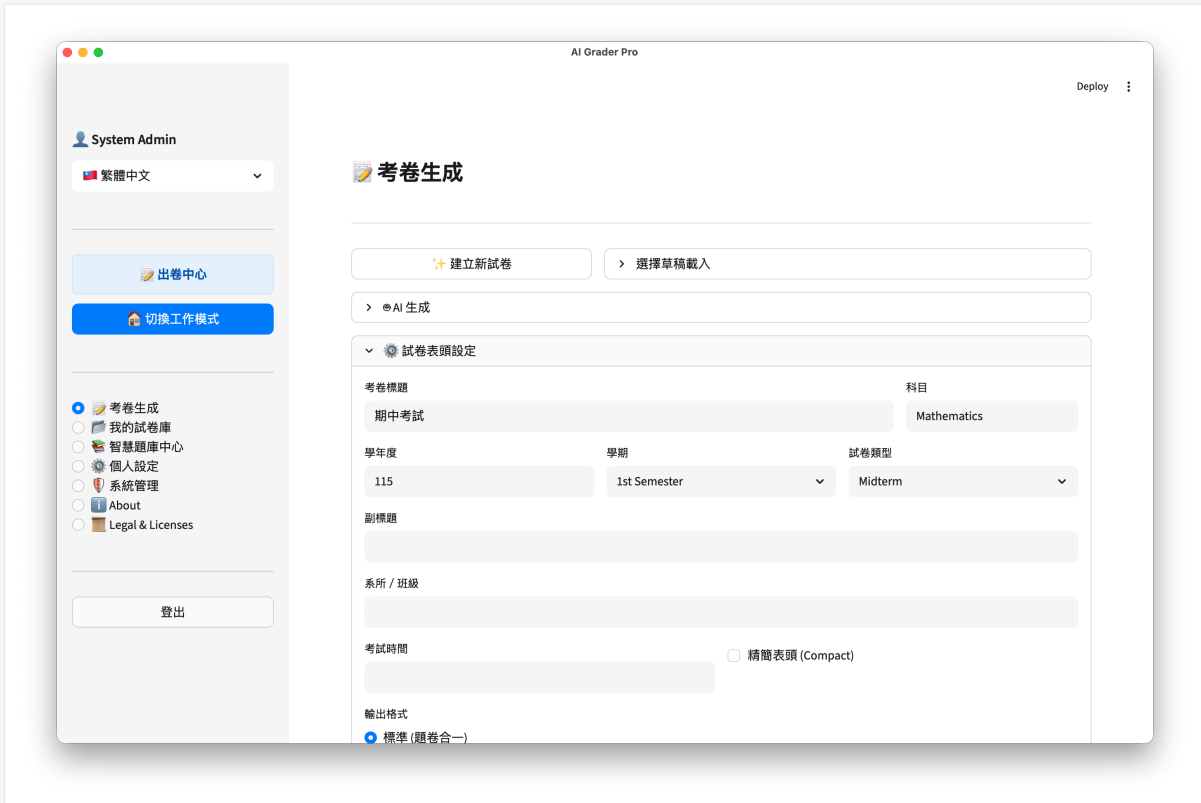


Figure 6: 考卷生成 (建立新試卷 / 試卷表頭設定)

A-3. 輸出與列印考卷

產生 PDF 後發給學生作答

1. 完成編輯後，將考卷輸出為 PDF。
2. 發給學生作答，可採紙本或平板作答流程。
3. 收卷後，請掃描成 PDF；可依你的工作流程選擇每位學生一份檔案，或全班合併成一份檔案。

5.2 B. 閱卷 (閱卷中心)

⚠ 讓 AI 閱卷更順利的關鍵

- 請先設定 **Rubric** (評分標準)，再上傳學生作答。
- 若 PDF 解析失敗，常見原因通常是：掃描過暗、影像模糊、頁面方向錯誤，或題號 / 題框切割不清楚。

B-1. 設定評分標準 (Rubric)

開始閱卷 → Step 1

1. 左側選單點選 開始閱卷。
2. 在 Step 1「設定標準」頁面中選擇年級與科目。
3. 上傳標準答案或題目 PDF，供系統生成或比對規則。
4. (可選) 按下 **AI 自動生成標準**。
5. 在右側編輯或確認評分標準 (JSON / 規則格式)。
6. 按下 **儲存並下一步**。

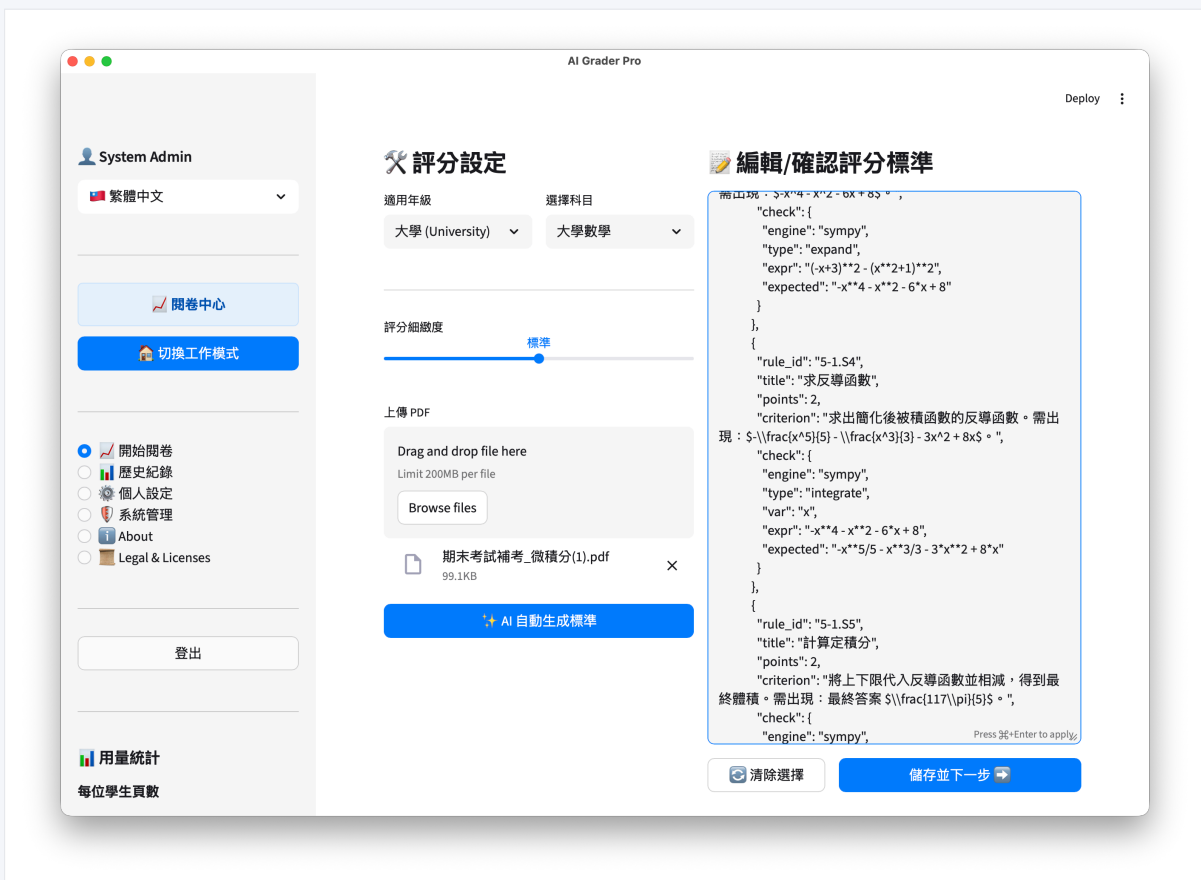


Figure 7: Step 1: 評分設定 / 編輯與確認評分標準

B-2. 上傳學生作答並分析版面

執行閱卷 → Step 2

1. 在 Step 2「執行閱卷」上傳學生考卷 PDF (拖放或 Browse)。
2. 設定 每位學生頁數 (例如 2 頁)。
3. 按下 **分割 PDF 並預覽**，確認分割結果是否正確。
4. 若題框或版面判讀不正確，可使用 **偵測佈局** 或 **重置佈局**。



Figure 8: Step 2: 上傳學生作答、分割預覽與版面分析

B-3. 確認題框與參數（建議執行）

降低題號對應錯誤的風險

- 閱卷策略：循序瀏覽（Sequential） / 矩陣網格（Matrix Grid）
- 報告詳細度：simple / full（完整報告會提供更多資訊）
- Temperature：數值越低越保守，初次使用建議先保留預設值

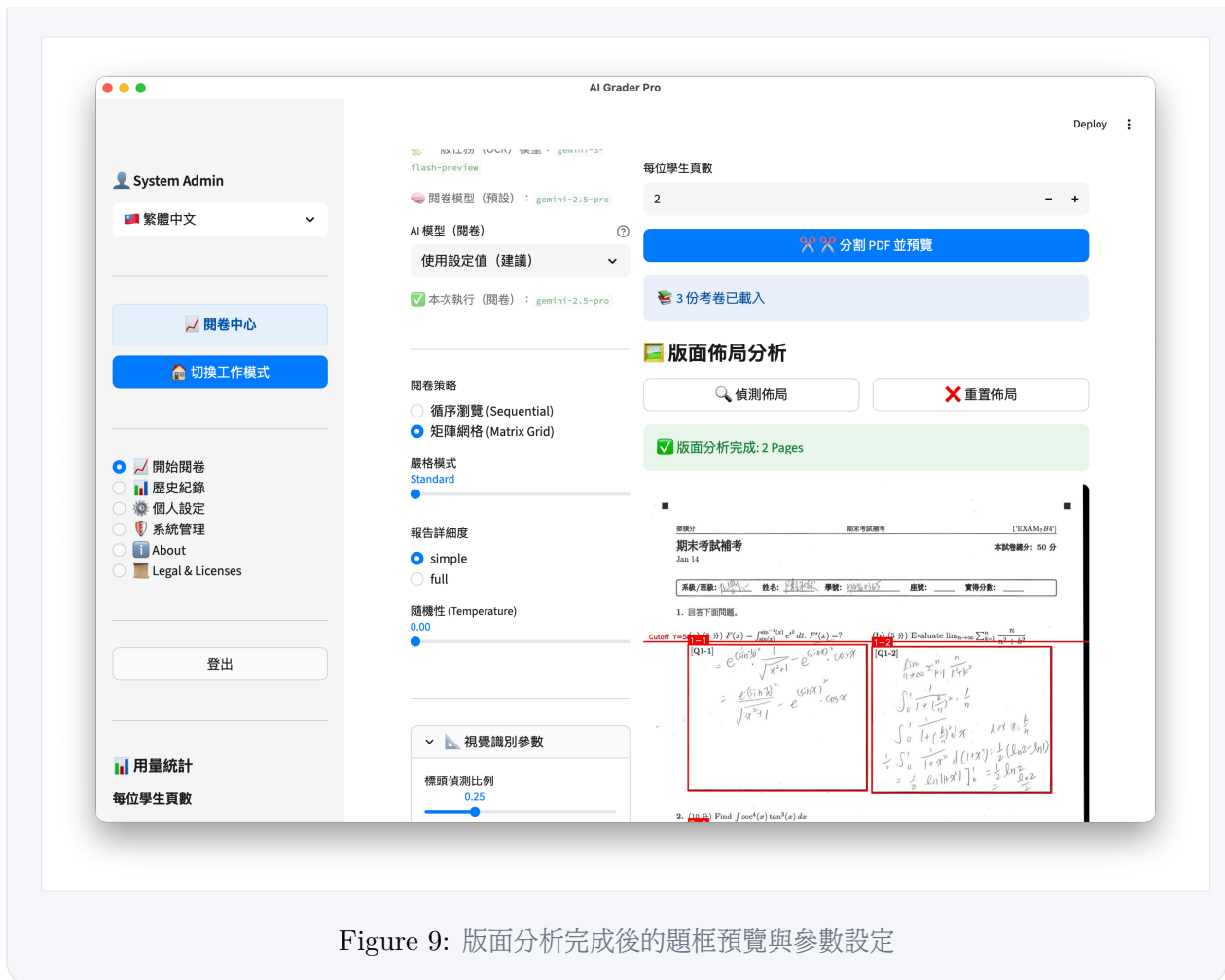


Figure 9: 版面分析完成後的題框預覽與參數設定

B-4. 開始 AI 閱卷

等待系統完成處理

1. 按下 **開始 AI 閱卷**。
2. 等待進度條完成；若有需要可中途 Stop。若網路中斷，請參考「錯誤排除」章節。
3. 完成後，系統會自動進入 Step 3「結果報告」。

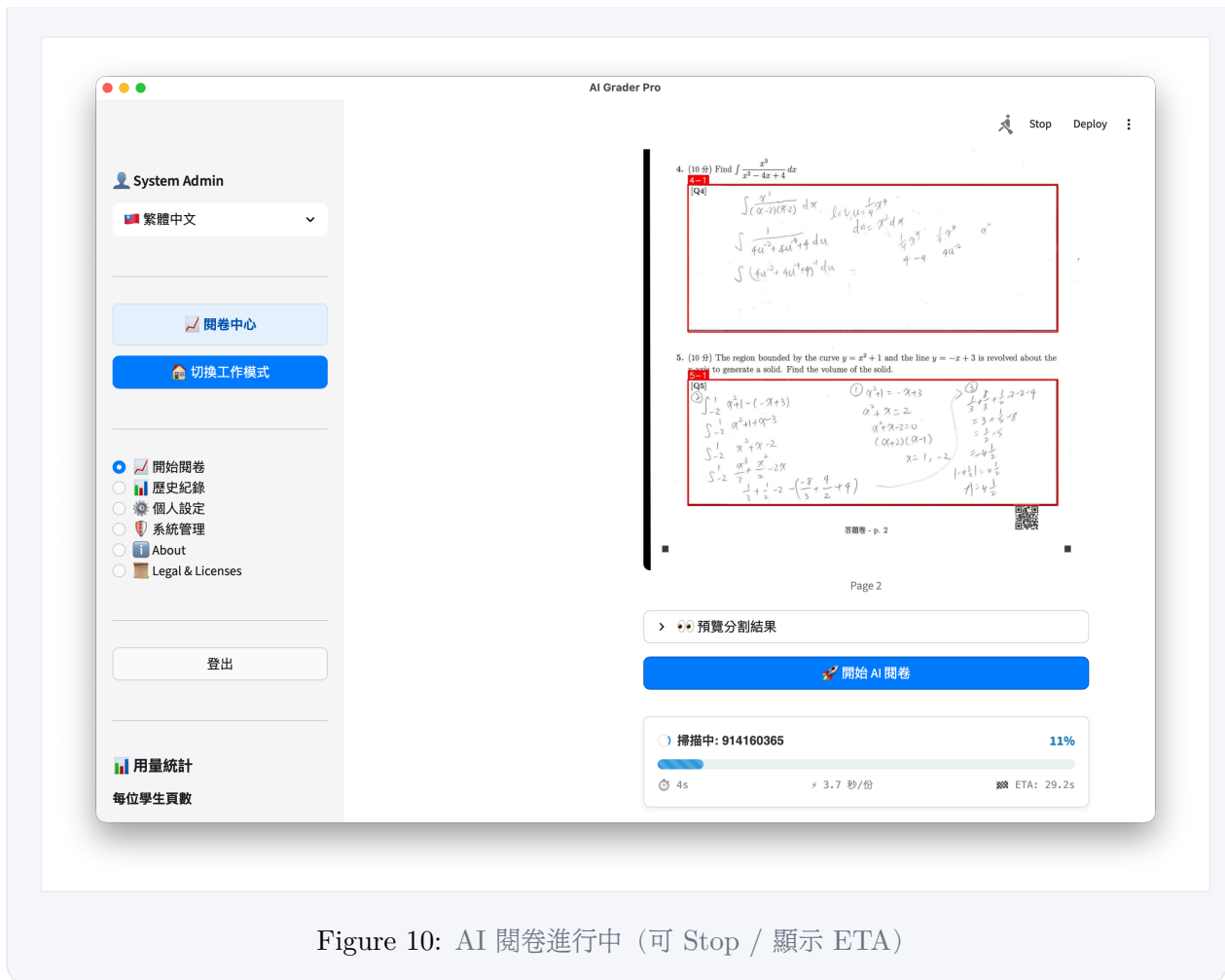


Figure 10: AI 閱卷進行中 (可 Stop / 顯示 ETA)

5.3 C. 報表

C-1. 查看總表與統計分析

Step 3: 結果報告

- 上方會顯示批次完成狀態、學生清單與成績摘要。
- 下方會顯示分數分佈圖、各題得分分佈與相關統計分析。

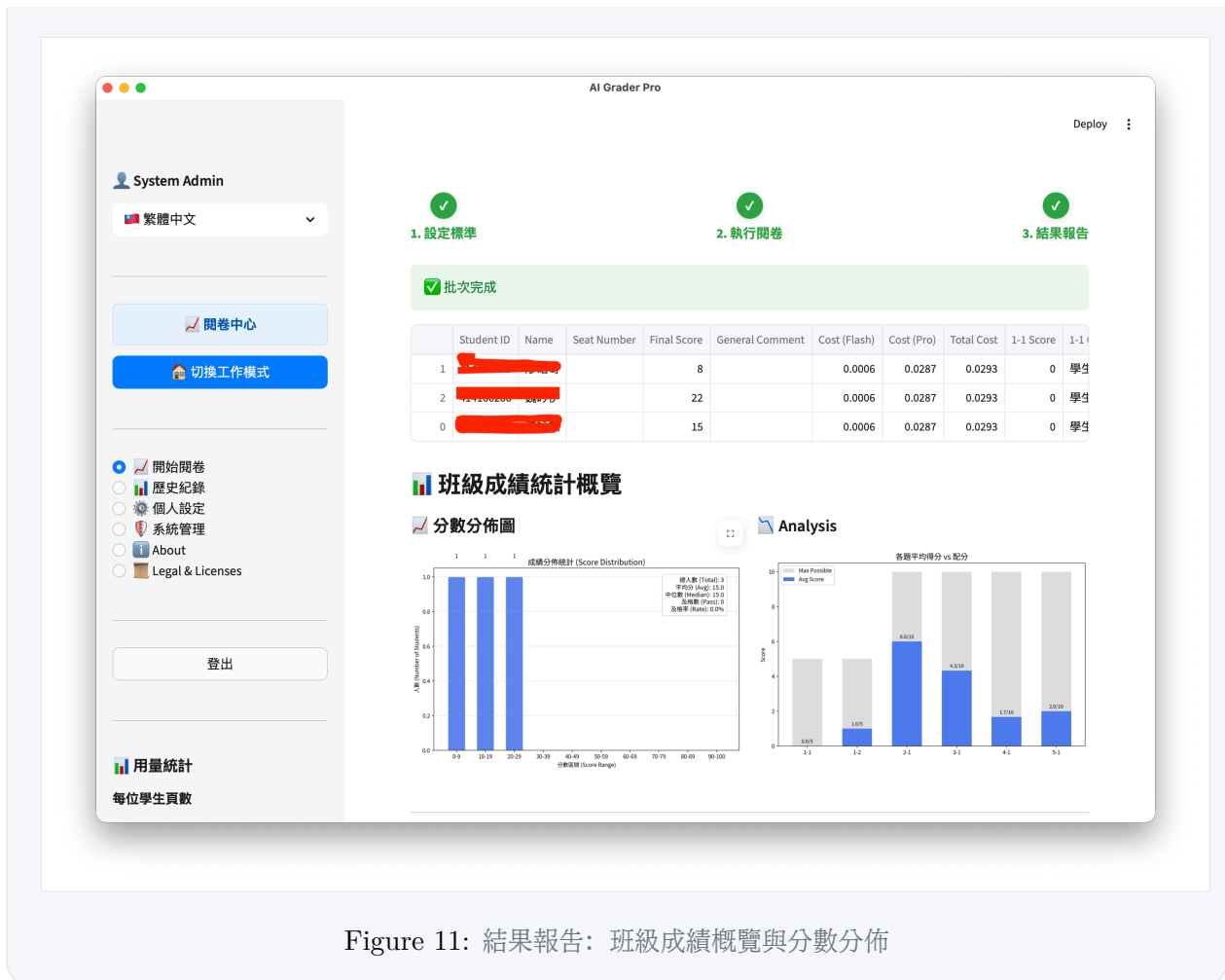


Figure 11: 結果報告：班級成績概覽與分數分佈

C-2. 教學改進建議與完整報告下載

提供 Remedial Strategy

- 系統會自動產生 教學改進建議 (**Remedial Strategy**)，協助教師調整後續教學。
- 按下 **下載完整報告 (ZIP)**，即可一次匯出全部結果資料。



Figure 12: 結果報告: Remedial Strategy 與完整報告下載 (ZIP)

5.4 D. 歷史紀錄

D-1. 查看歷史批次與成本資訊

可檢視批次、token 與費用

- 左側選單：歷史紀錄。
- 可查看批次編號、時間、成本 (USD/TWD)、token 用量與相關摘要資訊。

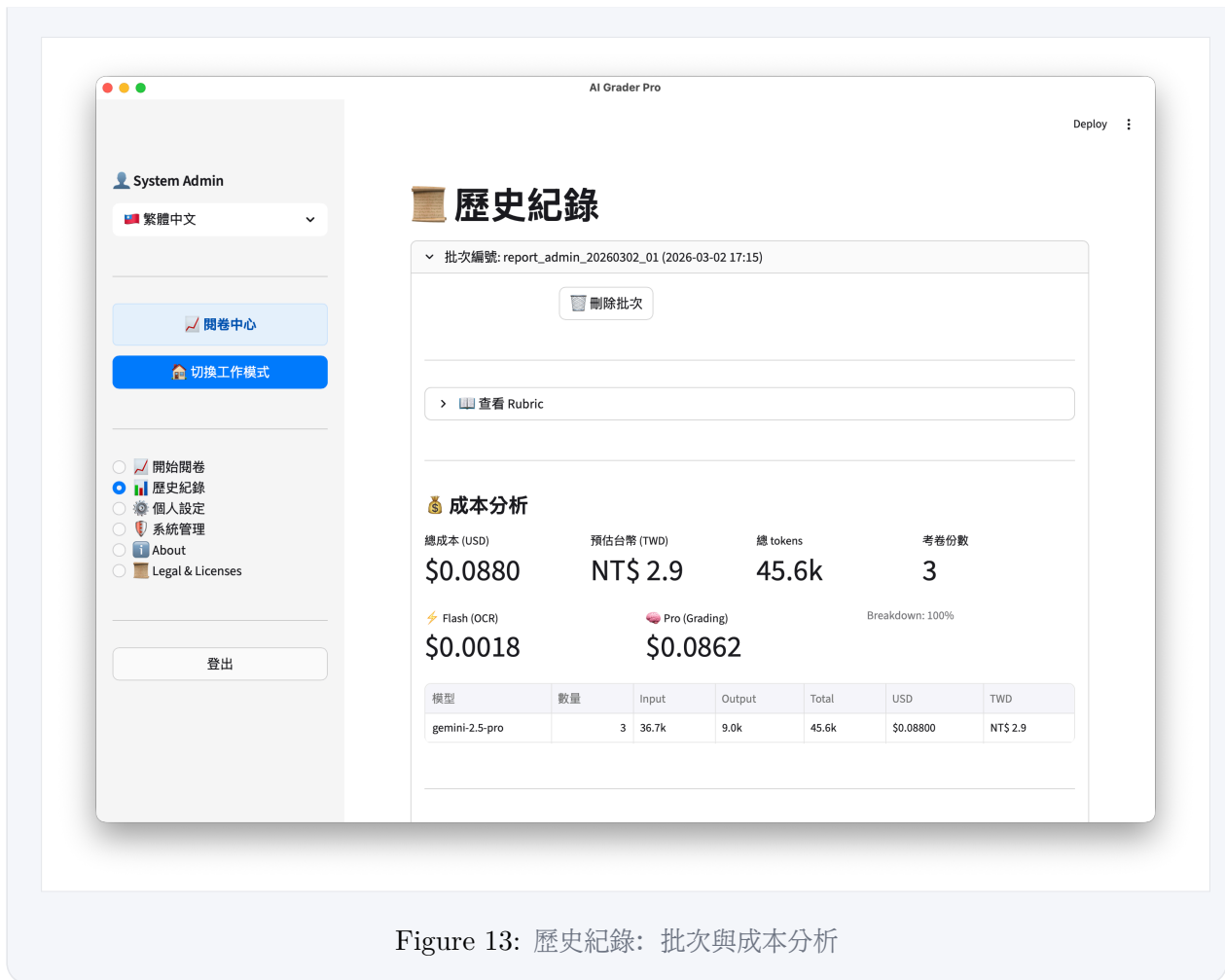


Figure 13: 歷史紀錄：批次與成本分析

D-2. history_view: 學生查詢與教師覆核

查看作答內容、逐題分數與分析

- 可展開各題內容，查看得分、AI 分析與評分說明。
- 教師亦可依工作流程與權限設定，在此進行人工覆核與必要的分數修正。



Figure 14: history_view: 作答檢視、逐題分數與分析

6 授權與啓動

🔑 授權機制中的三個重點

- 1. Machine ID:** 代表目前這台電腦的裝置識別資訊, 通常採一機一授權。
- 2. License Key:** 由客服提供, 需貼入 Activation 欄位進行驗證。
- 3. EULA:** 使用者授權協議, 必須勾選同意後才能啓動。

⚠️ 常見授權問題

- 若更換電腦或重灌系統, Machine ID 可能改變, 因此需重新申請授權。於合法授權期間內, 重新申請新的 Machine ID 授權碼最多 3 次; 新授權發出後, 舊授權將失效。
- 若無法啓動, 常見原因包括: 網路存取受限、授權碼貼錯、系統時間不正確。

7 錯誤排除

7.1 出題 / PDF 輸出相關

問題：輸出 PDF 失敗 / 找不到 xelatex

症狀：畫面出現 LaTeX 編譯錯誤，或訊息中包含 `xelatex not found`。

處理方式：

1. 確認已安裝 MacTeX (Mac) 或 MiKTeX (Windows)。
2. 在終端機 / 命令列中輸入：`xelatex -version`
3. 若 Windows 上 MiKTeX 缺少套件，請開啓 MiKTeX Console，啓用「missing packages on-the-fly」。

7.2 閱卷 / OCR 相關

問題：PDF 無法正確分割、頁數不對、題框偵測錯誤

常見原因：

- 掃描歪斜、方向錯誤，或解析度過低（建議 200 dpi 或以上）。
- 一個 PDF 內包含多位學生，但「每位學生頁數」設定錯誤。
- 題號或題框過淡、被遮擋，導致辨識失敗。

處理方式：

1. 先調整「每位學生頁數」，再重新進行分割預覽。
2. 使用 **偵測佈局**；必要時可再按 **重置佈局** (Matrix Grid 模式)。
3. 若結果仍不理想，建議重新掃描，並盡量避免陰影與模糊。

7.3 AI 閱卷卡住 / 進度不更新

問題：進度條停住或 ETA 不更新


可能原因一：網路不穩、校園網路限制外部服務，或服務短暫壅塞。

可能原因二：使用免費 API 額度時，token 資源不足，可能導致 JSON 解析錯誤或任務中斷。

可能原因三：試用版只啓用兩個 thread (worker)，速度會較慢。處理方式：

1. 先按下 **Stop** 停止，再重新啓動一次任務。
2. 改用其他網路環境（例如手機熱點）測試，確認是否為網路限制所致。
3. 先縮小批次，使用 2-3 份 PDF 進行測試。
4. 若條件允許，建議申請付費 Google API。實務上許多中斷問題可透過重試與較穩定額度獲得改善。可參考 [Google 相關說明](#)。

7.4 授權啟動失敗

 問題: **Activate** 失敗 / 顯示無效授權

處理方式:

1. 重新複製貼上 License Key, 避免多餘空白。
2. 確認已勾選 EULA 同意。
3. 檢查系統日期與時間是否正確。
4. 若仍無法解決, 請提供 Machine ID 與錯誤畫面截圖給客服。

8 常見問題

問題	答案
我一定要懂 LaTeX 嗎?	不需要非常熟悉, 但系統必須能使用 LaTeX, 且若會輸入基本數學公式會更方便; 其餘排版工作可交由本系統協助完成。
學生一定要使用同一種紙張或版面嗎?	強烈建議全班使用相同的考卷版面, 最好直接使用本系統輸出的考卷, 以提高後續辨識與閱卷穩定性。用戶可以使用其他軟體出題, 但是一定要有作答框的設計。
AI 生成的 Rubric (評分標準) 不合我意?	用戶到個人設定 → AI 記憶庫 設定該次閱卷偏好, 再開始生成 Rubric, 即可獲得很大改善。
我可以先用少量考卷試跑嗎?	可以, 而且非常建議。請先用 2-3 份作答測試流程與設定, 再處理整班。建議第一份樣本使用較乾淨、書寫正常的考卷, 避免用塗改過多的作答紙作為第一份, 以免干擾 OpenCV 偵測作答區域。
下載的報表 ZIP 通常包含哪些內容?	通常包含: 成績表 (CSV / Excel)、每題統計、教學建議、原始解析資料, 以及可追溯的批次資訊。
Linux 版本何時推出?	Linux 版本預計 2026 年 Q2 推出、但是僅限企業用戶。正式推出後, 將於官網與更新紀錄中公告。

9 版本更新紀錄

日期	版本	說明
2026-03-02	v1.0.1 (Manual)	新增: 完整新手流程、授權啟動說明、錯誤排除專章, 以及 UI 截圖整頁說明。

AI Grader Pro

User Manual (English)

10 Introduction

What can AI Grader Pro help you do?

- **Exam Authoring Center:** create a new exam, load an existing draft, typeset with LaTeX, and optionally use AI-assisted question generation and reference solution generation.
- **Grading Center:** upload student answer PDFs, perform recognition and layout analysis, create or edit grading rubrics, score each question based on the rubric, and automatically generate grades.
- **Reports & History:** download a complete report bundle (ZIP), review class score statistics, inspect per-question performance, check batch history, and monitor token/cost usage for later review and instructional improvement.

Recommended order (for first-time users)

Recommended first-launch workflow: Activation → Login → Home (choose a workspace) → API Key Setup → Exam Authoring → Grading → Report → History.

The rest of this manual follows the same sequence so that new users can complete the full workflow step by step.

11 System Requirements

11.1 Common requirements (all platforms)

- **Internet connection:** a stable internet connection is recommended for AI model requests and related cloud services. If your campus or institutional network has restrictions, please see the **Troubleshooting** section.
- **File format:** student submissions should preferably be in PDF format (scanned documents or photos converted into PDF).
- **LaTeX environment:** if you plan to author exams or export PDFs, the system must be able to call XeLaTeX, so a LaTeX distribution must be installed in advance (MacTeX / MiKTeX).

11.2 macOS

Item	Recommended / Minimum
Operating System	macOS 13 or later
CPU	Apple Silicon M1 or later
Memory	16GB recommended (8GB minimum)
Disk Space	At least 5GB for the app and temporary files; MacTeX requires roughly 6GB or more of additional space
Required Software	MacTeX (including XeLaTeX); Traditional Chinese users are encouraged to install cwTeX TTF fonts for better typography

11.3 Windows

Item	Recommended / Minimum
Operating System	Windows 10 / 11 (64-bit)
CPU	Intel / AMD 64-bit
Memory	16GB recommended (8GB minimum)
Disk Space	At least 5GB for the app and temporary files; MiKTeX may require more space depending on installed packages
Required Software	MiKTeX (automatic installation of missing packages is recommended); Traditional Chinese users are encouraged to install cwTeX TTF fonts for better typography

11.4 Linux (Ubuntu recommended)

Linux version note

Linux: To Be Released Soon!

For now, we recommend using the macOS or Windows version. Installation instructions and compatibility notes will be added after the Linux version is officially released.

12 Installation

12.1 Step 0: Install LaTeX first (most important)

Why must LaTeX be installed first?

If you plan to use the exam authoring features or export PDFs, **AI Grader Pro** will call **XeLaTeX** for compilation. If no LaTeX environment is available, common errors include `xelatex not found` or PDF compilation failure.

macOS: Install MacTeX

macOS

1. Download the installer from the [official MacTeX website](#).
2. Run the installer and complete the setup. The installation may take some time.
3. After installation, open Terminal and run: `xelatex -version`. If version information is shown, the installation is successful.
4. Traditional Chinese users are also encouraged to install cwTeX-ttf ([download link](#)) for better Chinese typesetting quality.

Windows: Install MiKTeX

Windows

1. Download and install MiKTeX from the [official MiKTeX download page](#).
2. During installation or first use, set **Install missing packages on-the-fly = Yes**.
3. Open Command Prompt and run: `xelatex -version`. If version information is shown, the

installation is successful.

4. Traditional Chinese users are also encouraged to install cwTeX-TTF ([download link](#)) for better Chinese typesetting quality.

12.2 Step 1: Install AI Grader Pro (the App)


↓ Installation is straightforward

- Download the latest release from the [AI Grader Pro download page](#).
- macOS: double-click **AIGraderPro-mac-arm64.dmg**, mount the DMG, and drag the App into the **Applications** folder.
- Windows: run the **AIGraderPro-Windows-x64.exe** installer and follow the on-screen instructions.

12.3 Step 2: First launch (Activation → Login)

2-1. System Activation

Activation must be completed before using the software

1. After launching **AI Grader Pro**, you will first see the **System Activation** page.
2. Copy your **Machine ID** (device fingerprint).
3. Contact support to obtain a license key (usually in a format such as **AGP-XXXX-XXXX-...**).
Support email: fh.humane@gmail.com.
4. Check **I have read and agree...**, paste the license key, and click  **Activate** .

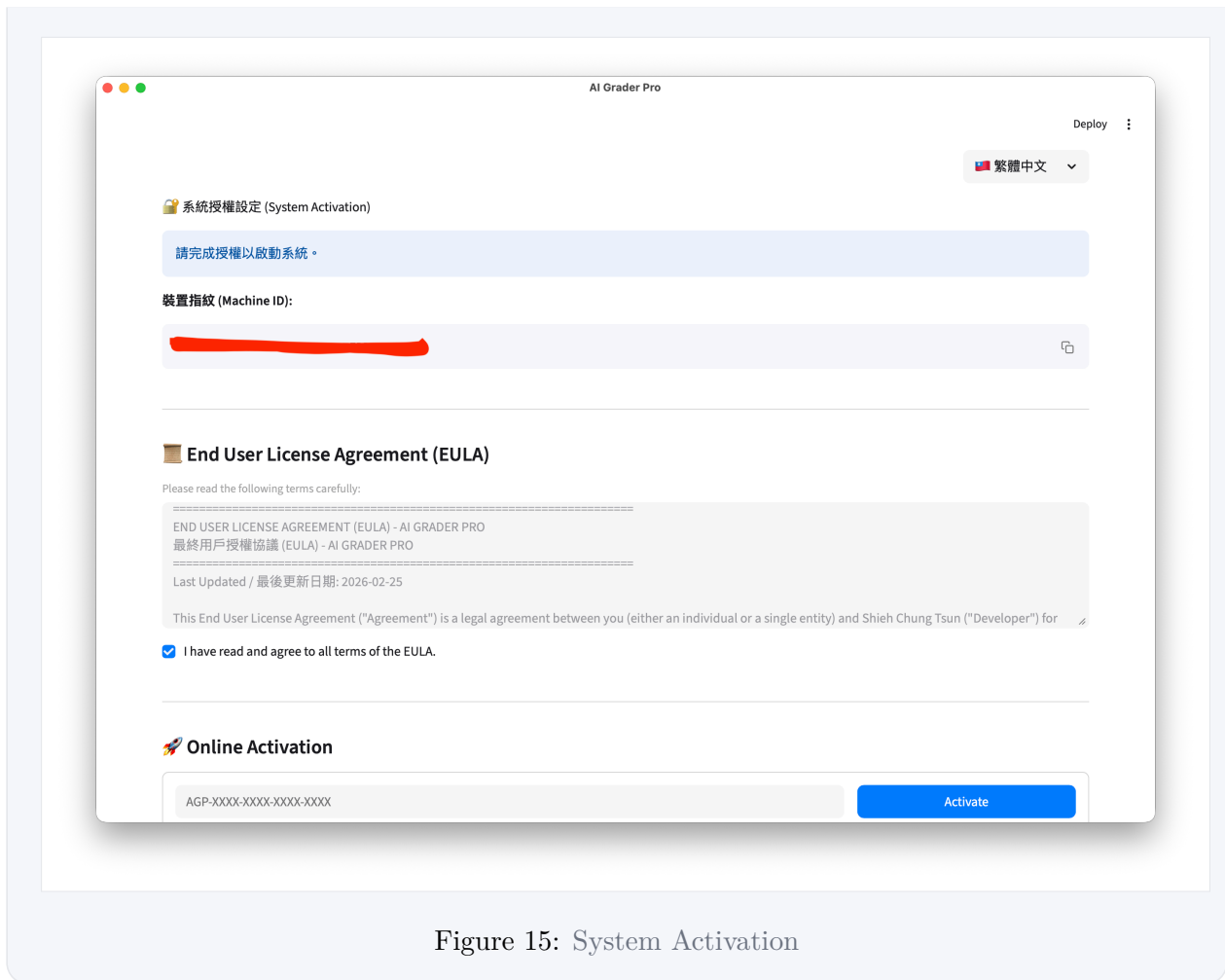


Figure 15: System Activation

2-2. Login

Default credentials are available for the first login

1. Username: **admin**
2. Password: **admin123**
3. Enter the on-screen verification math result, then click [Login](#).

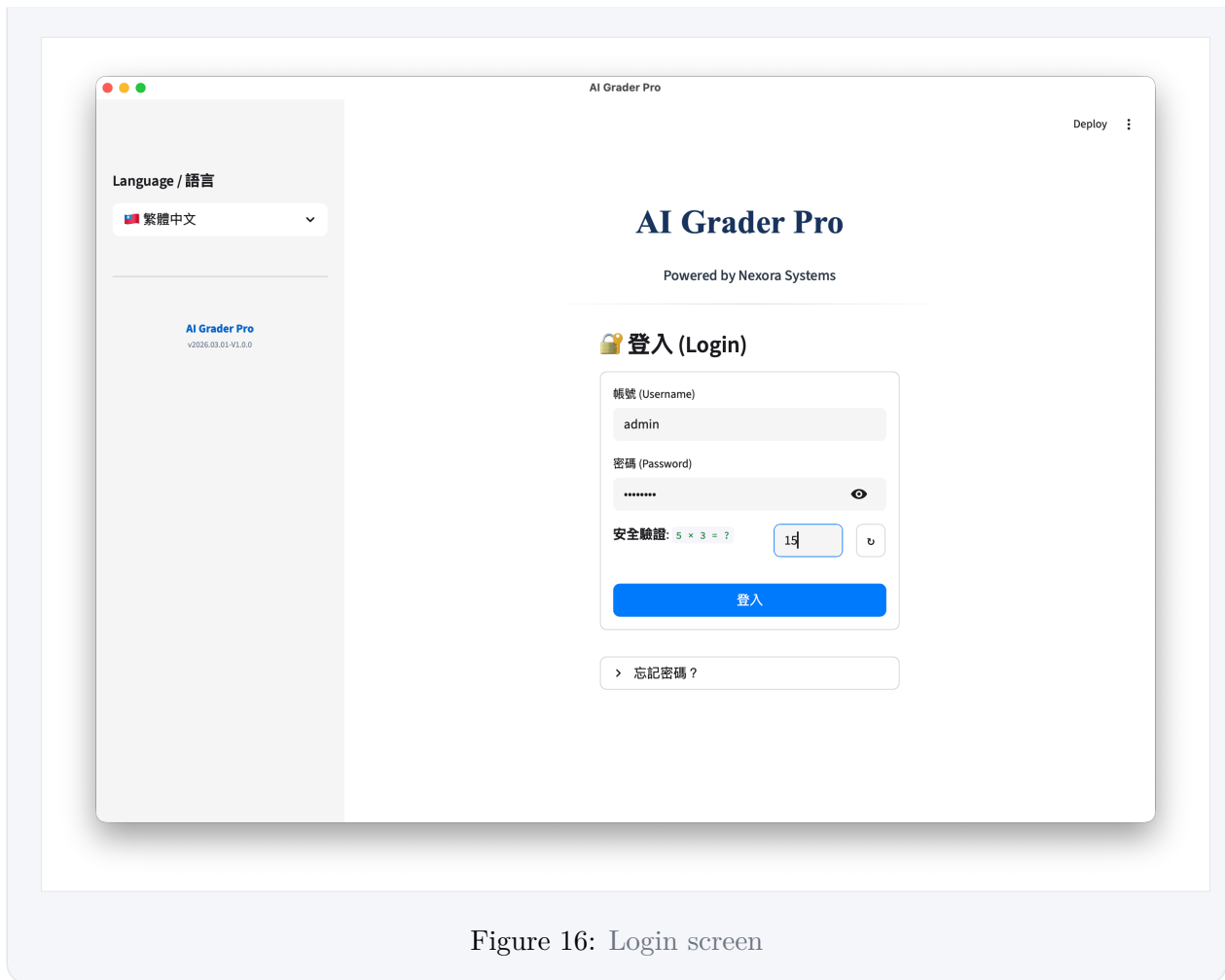


Figure 16: Login screen

13 Quick Start

13.1 Home: Choose your workspace

🏠 The Home screen provides two main working modes

Exam Authoring Center: used to design exams, adjust LaTeX typesetting, and export exam papers.

Grading Center: used to upload student submissions, run AI grading, and generate reports.

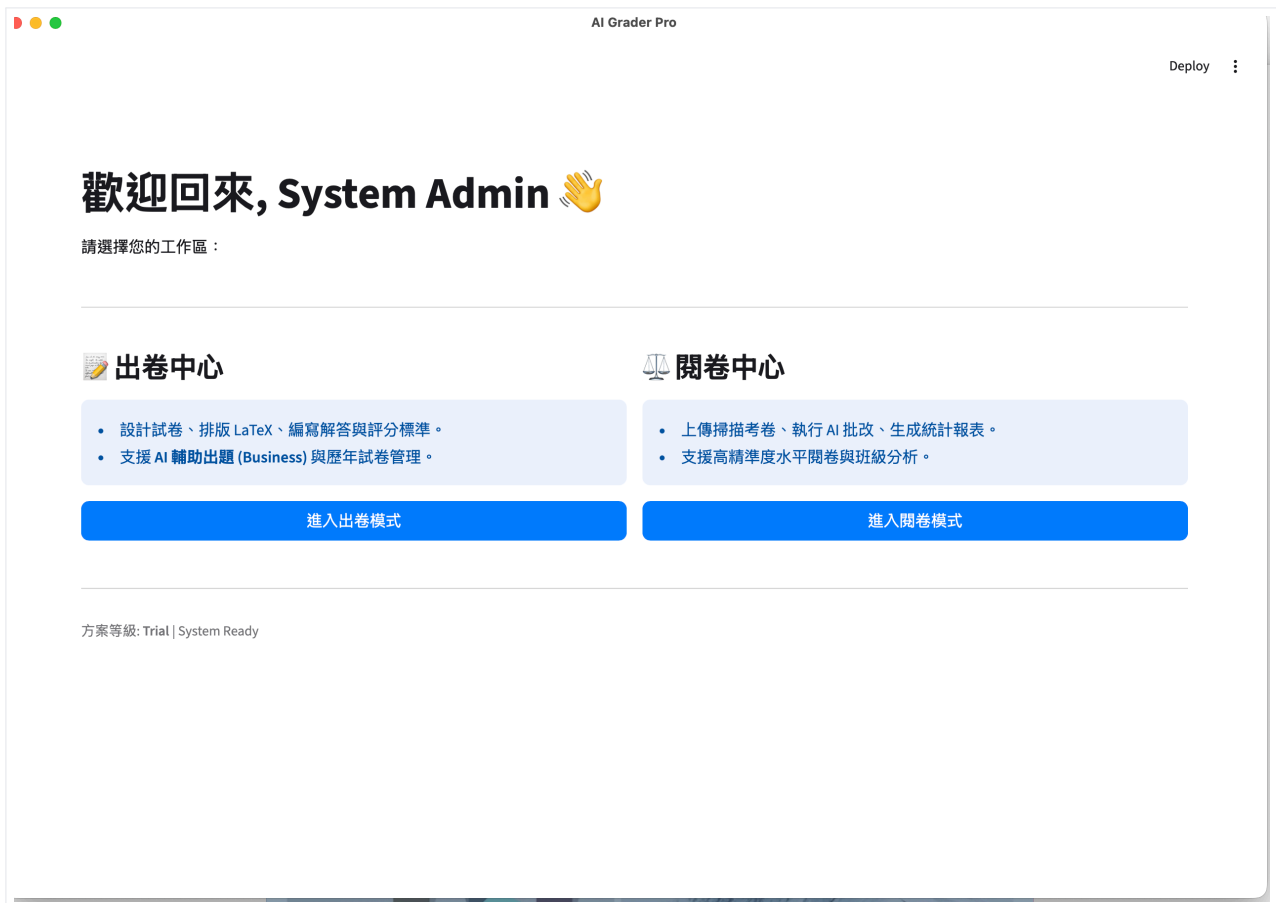


Figure 17: Home (Exam Authoring Center / Grading Center)

13.2 API Key Setup (Required)

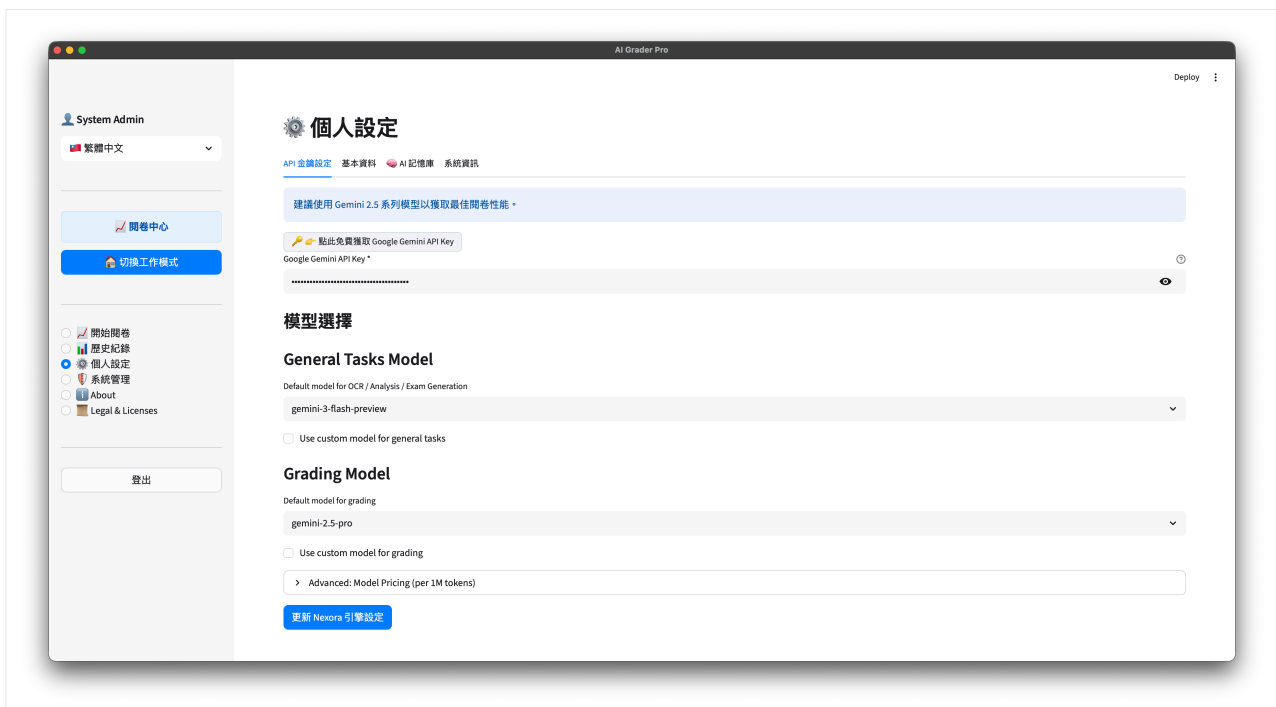


Figure 18: Personal Settings / API Key Setup

Steps:

1. Left sidebar / Personal Settings
2. Top tab / API Key Setup
3. Paste your Google Gemini API Key
4. Click **Update Nexora Engine Settings**

If the API key is not configured, AI grading will not function.

13.3 Professional parallel workflow diagram (Exam Authoring / Grading)

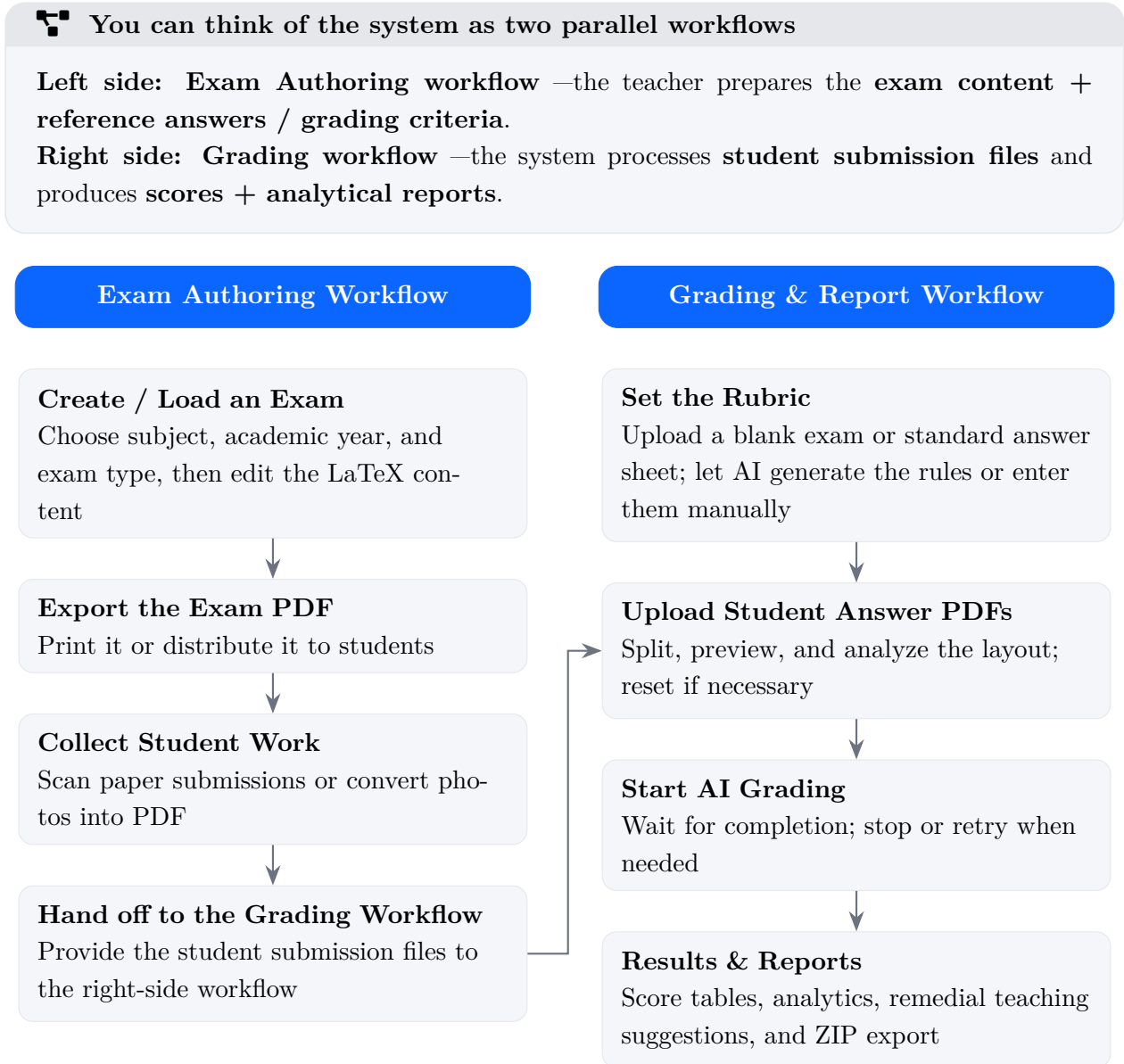


Figure 19: Parallel workflow diagram (Exam Authoring / Grading)

14 Step-by-Step Guide

14.1 A. Exam Authoring

A-1. Enter the Exam Authoring Center

Home → Exam Authoring Center

- On the Home screen, click **Enter Exam Mode**.
- The left sidebar will display functions such as Exam Generation, My Exam Library, and related tools.

A-2. Create a new exam

Exam Generation page

1. Click **Create New Exam**.
2. Set the **exam title, subject, academic year, semester, and exam type**.
3. (Optional) Expand the **AI Generation** section and enter your requirements.
4. Confirm the **output format and exam header settings**.

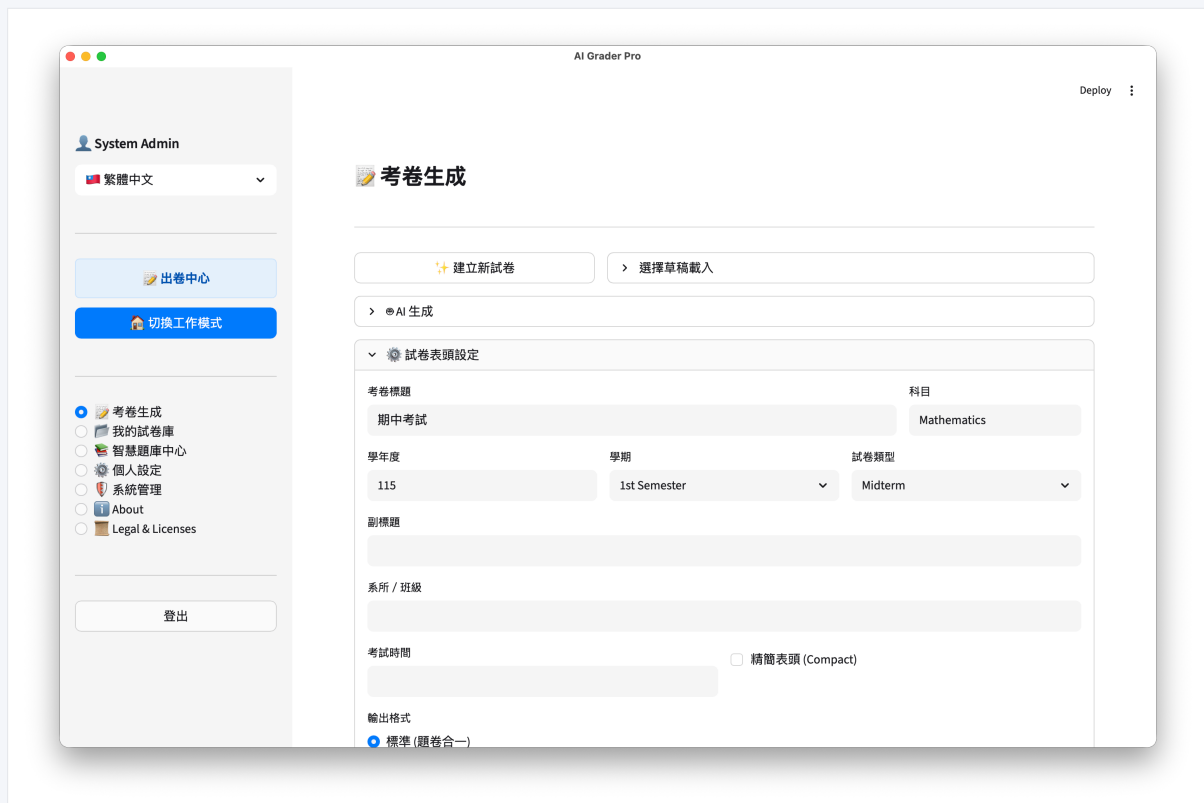


Figure 20: Exam generation (create a new exam / exam header settings)

A-3. Export and print the exam

Generate the PDF and distribute it to students

1. After editing is complete, export the exam as a PDF.

2. Distribute it to students, either as a paper-based exam or through a tablet-based workflow.
3. After collecting student work, scan it into PDF format. Depending on your workflow, you may save one file per student or combine the whole class into a single PDF.

14.2 B. Grading

Key points for smoother AI grading

- **Please configure the rubric first**, then upload student submissions.
- If PDF parsing fails, the most common causes are scans that are too dark, blurry images, incorrect page orientation, or unclear question-number / question-box segmentation.

B-1. Set the grading rubric

Start Grading → Step 1

1. Click Start Grading in the left sidebar.
2. In Step 1, **Set Standard**, choose the grade level and subject.
3. Upload the standard answer PDF or question PDF for rule generation / comparison.
4. (Optional) Click **AI Auto-Generate Standard**.
5. Edit or confirm the grading rubric on the right side (JSON / rule format).
6. Click **Save and Next**.

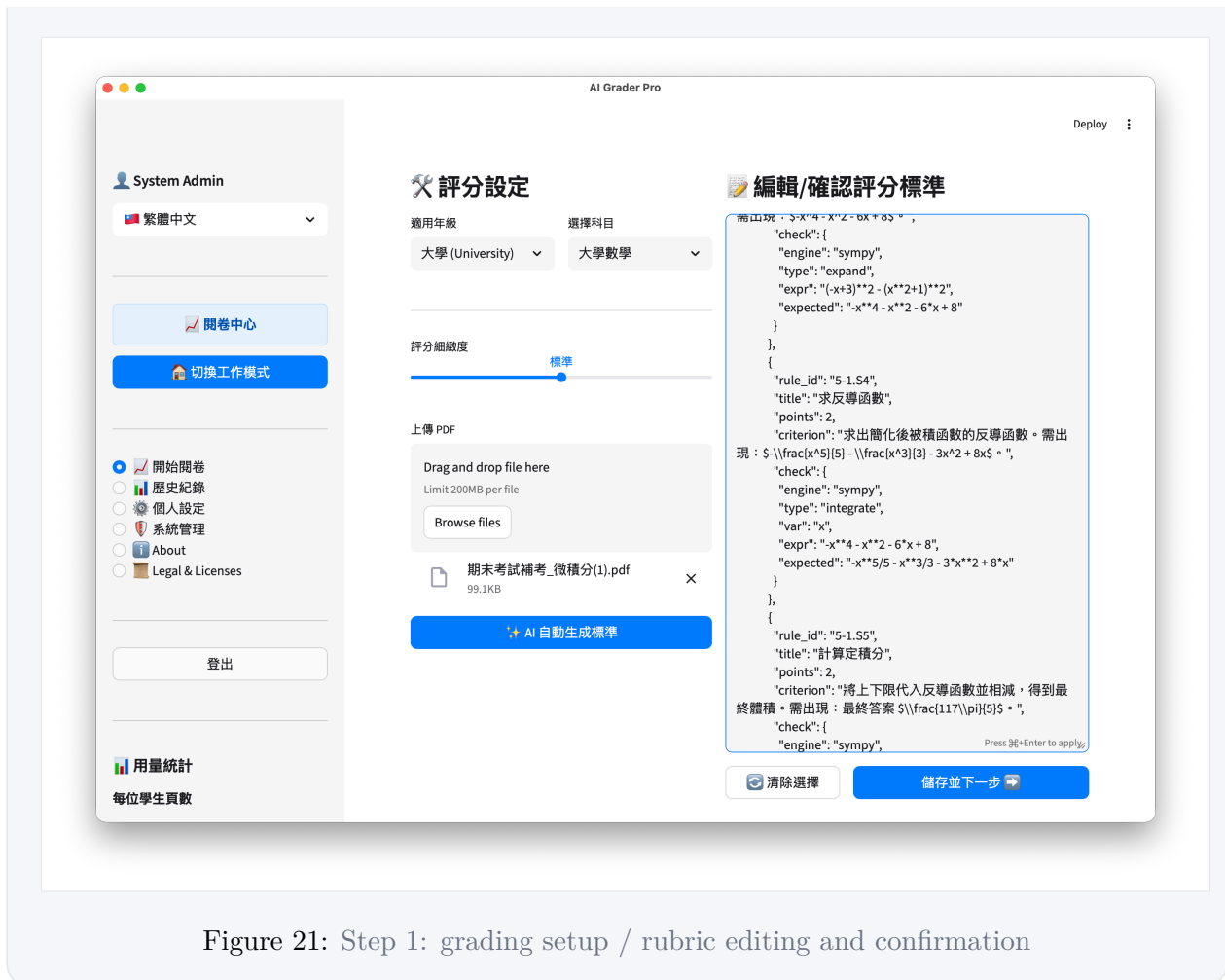


Figure 21: Step 1: grading setup / rubric editing and confirmation

B-2. Upload student submissions and analyze layout

Run Grading → Step 2

1. In Step 2, **Run Grading**, upload the student answer PDFs (drag-and-drop or Browse).
2. Set the **pages per student** (for example, 2 pages).
3. Click **Split PDF and Preview** and verify that the split result is correct.
4. If the question boxes or layout are recognized incorrectly, use **Detect Layout** or **Reset Layout**.

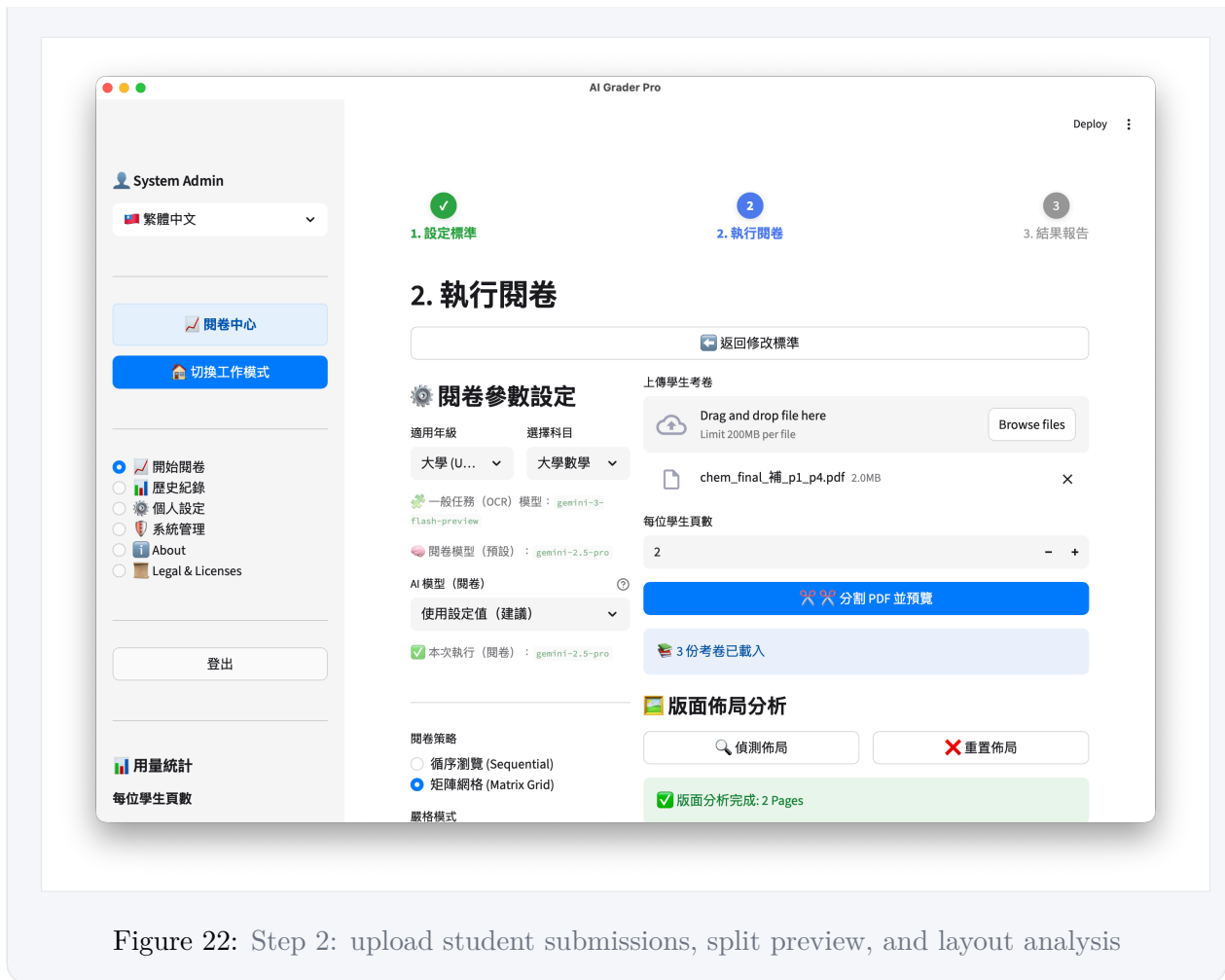


Figure 22: Step 2: upload student submissions, split preview, and layout analysis

B-3. Confirm question regions and parameters (recommended)

Reduce the risk of question-number mismatch

- Grading strategy: Sequential / Matrix Grid
- Report detail level: simple / full (full reports provide more information)
- Temperature: lower values are more conservative; for first-time use, the default setting is recommended

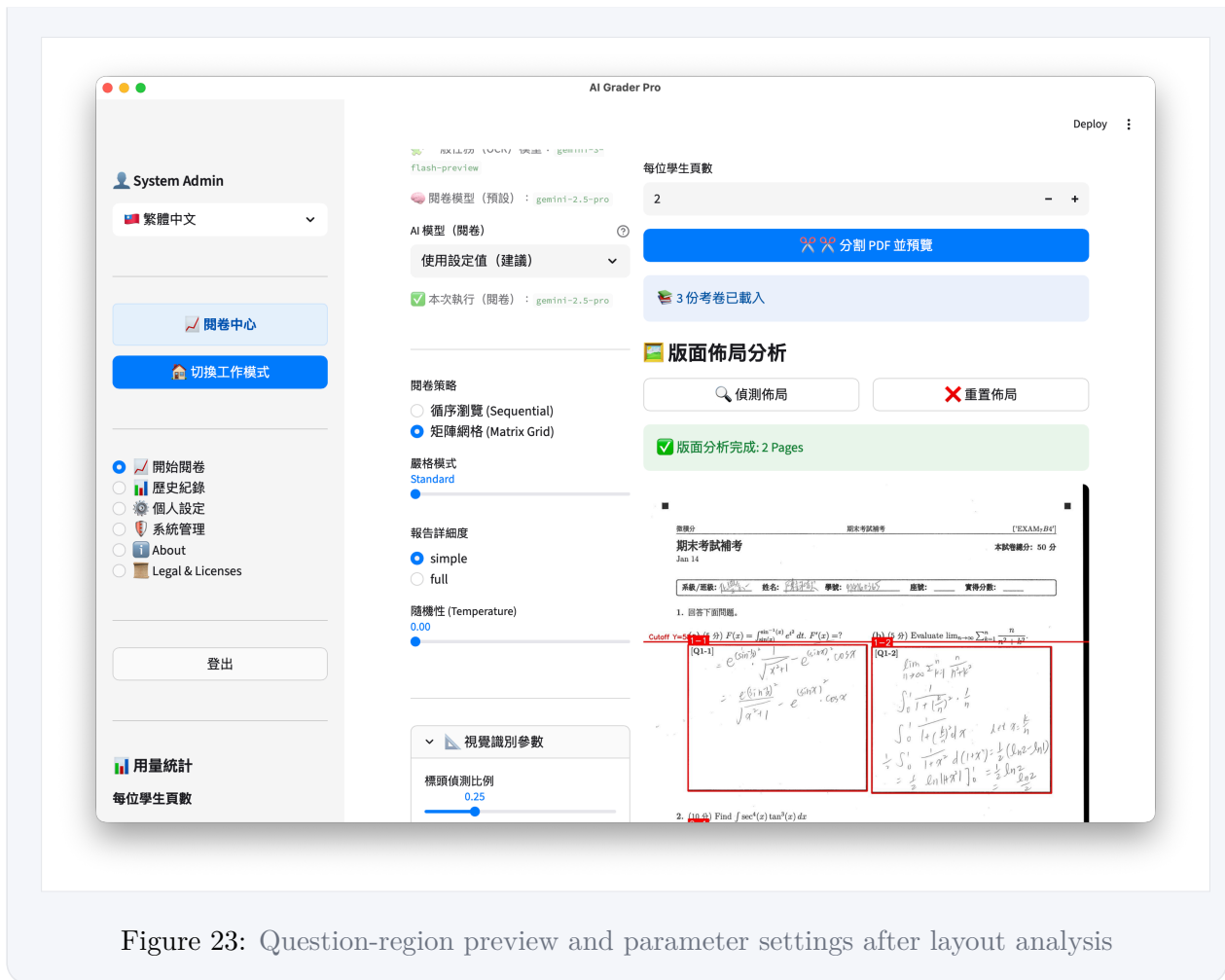


Figure 23: Question-region preview and parameter settings after layout analysis

B-4. Start AI grading

Wait for the system to complete processing

1. Click **Start AI Grading**.
2. Wait for the progress bar to complete; you may Stop the process midway if needed. If the network disconnects, see the **Troubleshooting** section.
3. After completion, the system will automatically move to Step 3: **Results Report**.

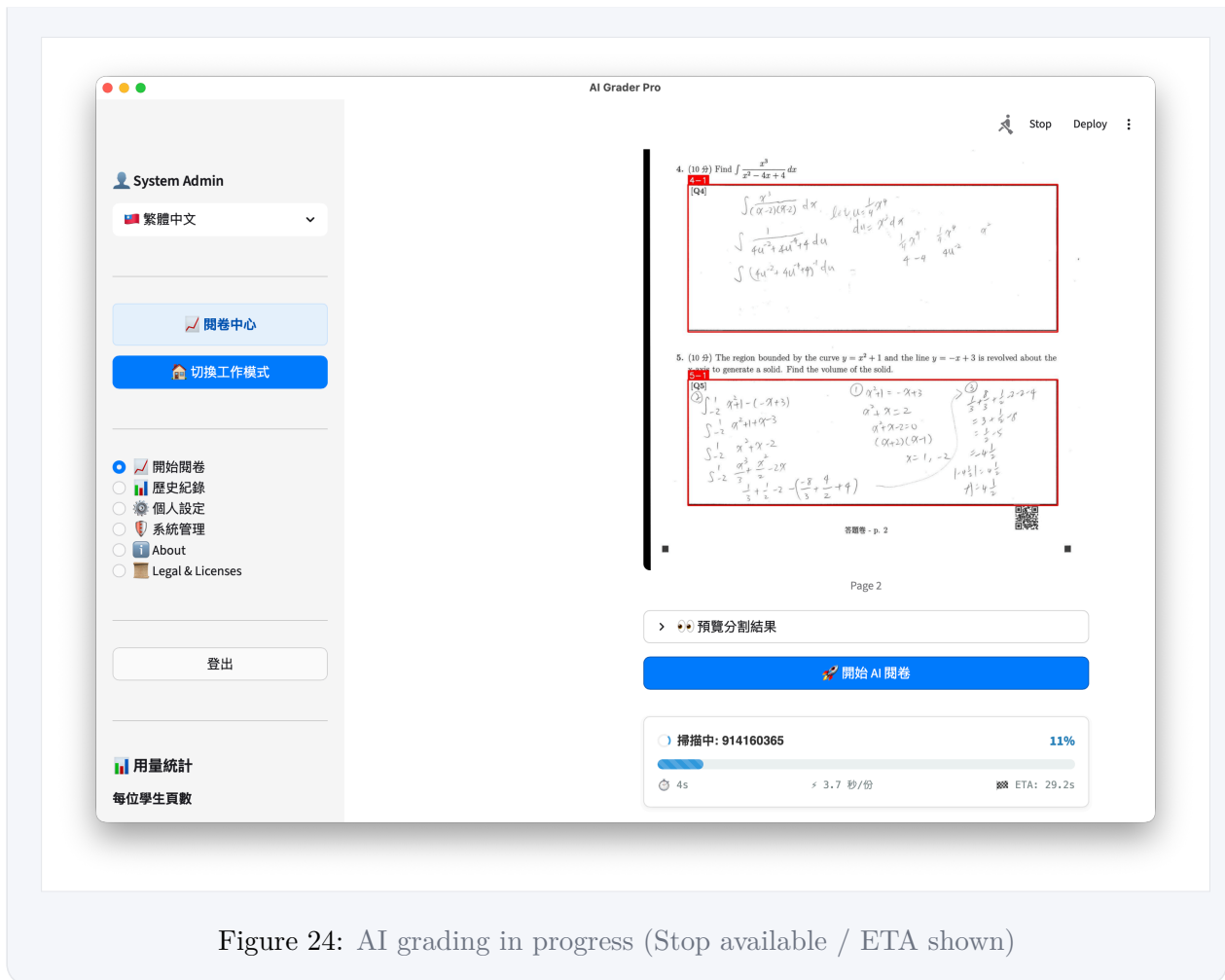


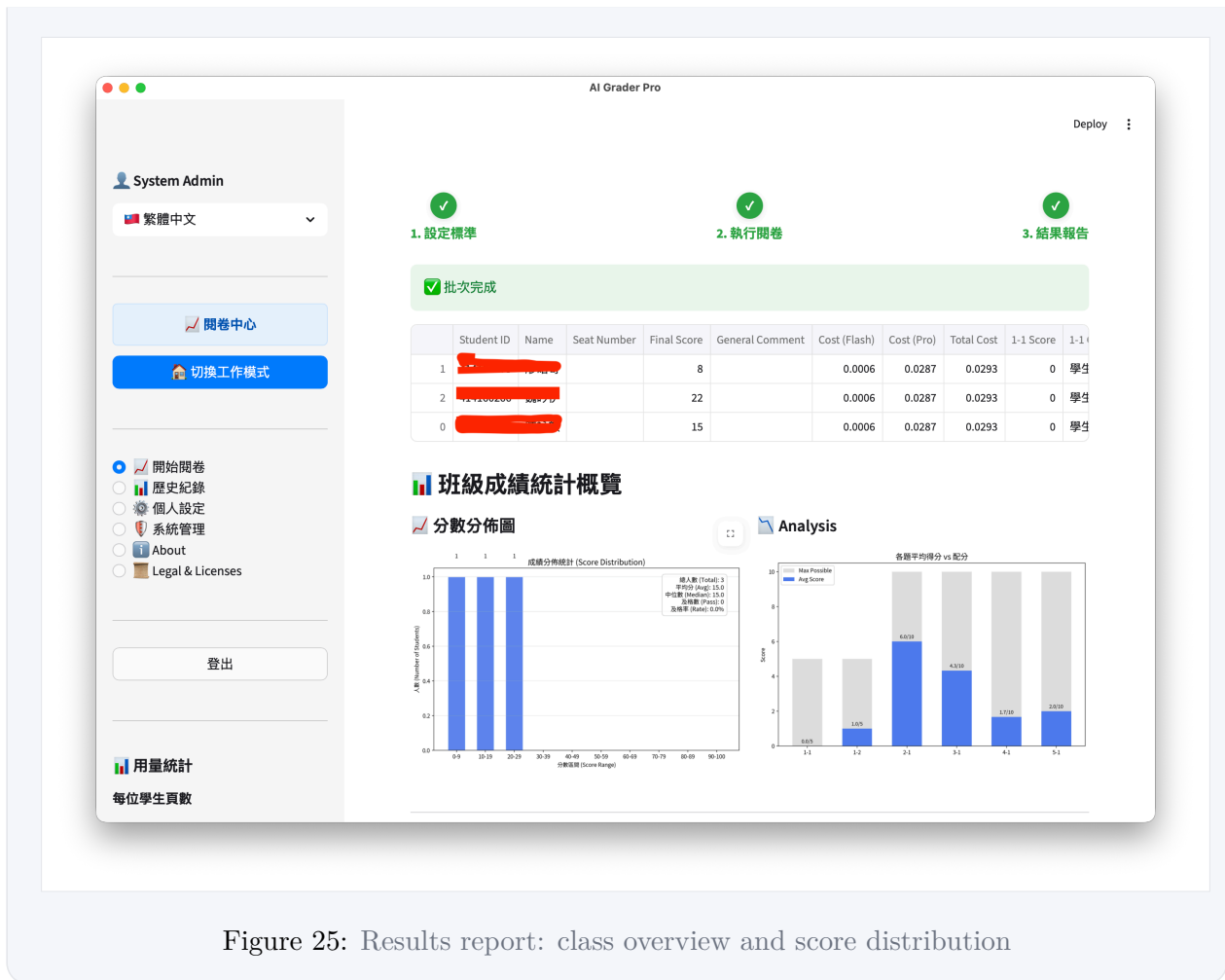
Figure 24: AI grading in progress (Stop available / ETA shown)

14.3 C. Reports

C-1. View the overview and statistical analysis

Step 3: Results Report

- The top section shows the batch completion status, student list, and score summary.
- The lower section shows score distributions, per-question performance distributions, and related analytics.



C-2. Teaching improvement suggestions and full report download

Provides Remedial Strategy

- The system automatically generates **Remedial Strategy** suggestions to help teachers improve subsequent instruction.
- Click [Download Full Report \(ZIP\)](#) to export all result data at once.

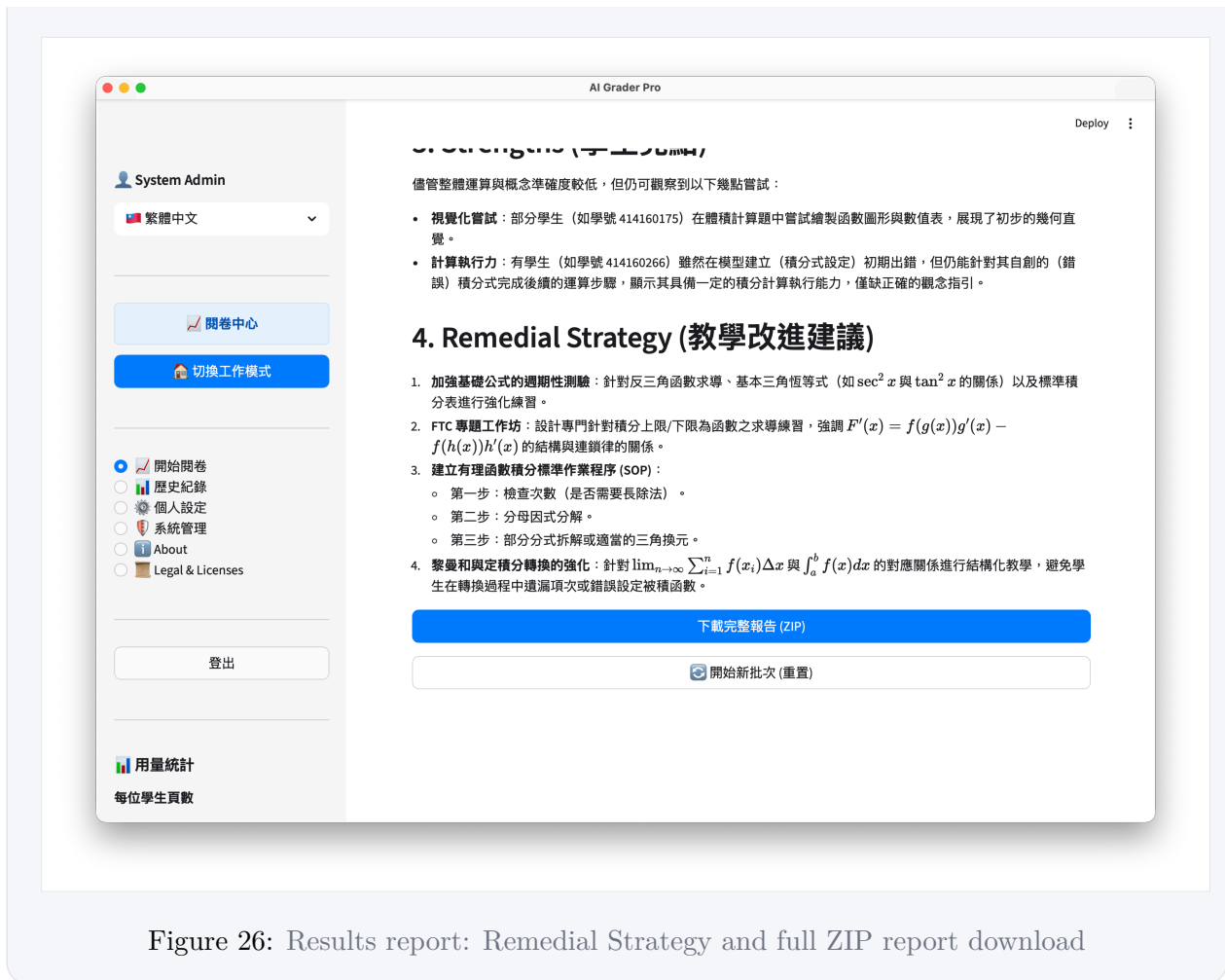


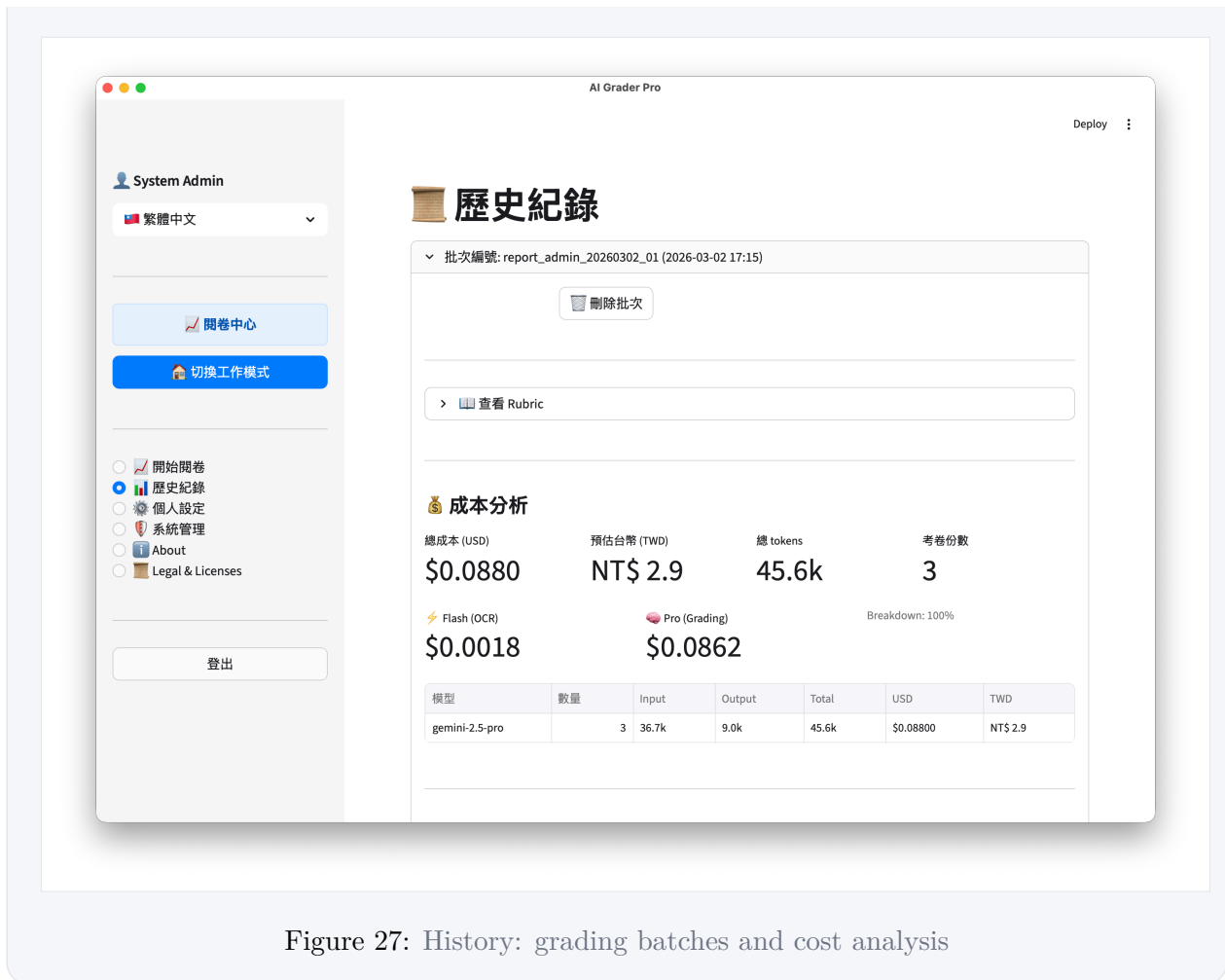
Figure 26: Results report: Remedial Strategy and full ZIP report download

14.4 D. History / history_view

D-1. Review past batches and cost information

Inspect batches, token usage, and cost

- Left sidebar: History.
- You can review the batch ID, time, cost (USD/TWD), token usage, and related summary information.



D-2. history_view: for student inquiry and teacher review

Inspect answers, per-question scores, and analysis

- You can expand each question to view the score, AI analysis, and grading explanation.
- Teachers may also perform manual review here and adjust scores when necessary, depending on workflow and permission settings.

The screenshot displays the AI Grader Pro interface. On the left, a student's handwritten work is shown for two problems:

[Q3] $\int_0^{\pi} e^x \sin x dx$
 $u = e^x \quad dv = \sin x dx$
 $du = e^x dx \quad v = -\cos x$
 $= -e^x \cos x + \int e^x \cos x dx = -e^x \cos x + (e^x \sin x - \int e^x \sin x dx)$
 $u = e^x \quad dv = \cos x dx \Rightarrow 2 \int_0^{\pi} e^x \sin x dx = -e^x \cos x + e^x \sin x$
 $du = e^x dx \quad v = \sin x$
 $\int_0^{\pi} e^x \sin x dx = \frac{-e^x \cos x + e^x \sin x}{2} + C$

4. (10分) Find $\int \frac{x^3}{x^2 - 4x + 4} dx$

[Q4] $\frac{x+4}{x^2-4x+4}$
 $x^2-4x+4 = (x-2)^2$
 $\frac{x+4}{(x-2)^2} = \frac{A(x-2) + B}{(x-2)^2}$
 $AX - 2A + B = x + 4$
 $A = 1, B = 7$

On the right, the '題目統計' (Subject Summary) panel shows:

- 查看 Rubric (Full Rubric)
- 1-1 | 分数: 0/5
- 1-2 | 分数: 0/5
- 2-1 | 分数: 0/10
- 3-1 | 分数: 3/10

The AI analysis for question 3-1 shows a score of 3.00 and a breakdown:

- 第一次分部积分: 1 pts**
 學生寫: $u = e^x, dv = \sin x dx \Rightarrow du = e^x dx, v = -\cos x$
 正確應用了第一次分部积分的公式, 但沒有處理定积分的邊界。
- 第二次分部积分: 1 pts**
 學生寫: $u' = e^x, dv' = \cos x dx \Rightarrow du' = e^x dx, v' = \sin x$
 正確應用了第二次分部积分的公式, 但同樣忽略了定积分的邊界。
- 計算邊界項: 0 pts**
 未見: 學生沒有計算任何邊界項的值。
- 建立求解方程式: 1 pts**
 學生寫: $2 \int_0^{\pi} e^x \sin x dx = -e^x \cos x + e^x \sin x$ 。學生成功建立了求解积分的代數關係, 但右側的表達式未進行邊界求值, 這是一個概念錯誤。
- 求解: 0 pts**

Figure 28: history_view: answer review, per-question scores, and analysis

15 Licensing & Activation

🔑 Three key points about licensing

- Machine ID:** identifies the current computer; licensing is generally one license per machine.
- License Key:** provided by support and pasted into the Activation field for verification.
- EULA:** the End User License Agreement; you must agree before activation can proceed.

⚠️ Common activation issues

- If you change computers or reinstall the operating system, the Machine ID may change, so reactivation may be required. During the valid license period, a new Machine ID license may be requested at most two times. Once a new license is issued, the previous one becomes invalid.
- If activation fails, common causes include restricted network access, an incorrect license key, or an incorrect system clock.

16 Troubleshooting

16.1 1. Exam authoring / PDF export

Problem: PDF export fails / xelatex not found

Symptoms: a LaTeX compilation error appears, or the message includes `xelatex not found`.

What to do:

1. Make sure MacTeX (macOS) or MiKTeX (Windows) is installed.
2. Open Terminal / Command Prompt and run: `xelatex -version`
3. If MiKTeX is missing packages on Windows, open MiKTeX Console and enable “missing packages on-the-fly”.

16.2 2. Grading / OCR

Problem: PDF cannot be split correctly, page count is wrong, or question boxes are detected incorrectly

Common causes:

- The scan is skewed, rotated, or too low in resolution (300 dpi is recommended).
- A single PDF contains multiple students, but the **pages per student** setting is incorrect.
- Question numbers or question boxes are too faint or partially blocked.

What to do:

1. Adjust the **pages per student** setting first, then run split preview again.
2. Use **Detect Layout** ; if necessary, click **Reset Layout** .
3. If the result is still unsatisfactory, rescan the document with clearer quality and minimal shadowing.

16.3 3. AI grading gets stuck / progress does not update

Problem: the progress bar is stuck or ETA does not update

Possible cause 1: unstable internet, campus network restrictions on external services, or temporary service congestion.

Possible cause 2: when using a free API tier, insufficient token quota may lead to JSON parsing errors or interrupted jobs.

What to do:

1. Click **Stop** , then restart the job.
2. Try a different network environment (for example, a mobile hotspot) to check whether the issue is caused by network restrictions.
3. Start with a smaller batch, such as 2–3 PDFs.
4. If possible, consider a paid Google API plan. In practice, many interruptions can be improved through retries and more stable quota. See the [Google documentation](#) for details.

16.4 4. Activation failed

Problem: Activate fails / invalid license is shown

What to do:

1. Copy and paste the license key again carefully, avoiding extra spaces.
2. Make sure the EULA agreement box is checked.
3. Verify that the system date and time are correct.
4. If the issue remains unresolved, send the Machine ID and a screenshot of the error to support.

17 FAQ

Question	Answer
Do I need to understand LaTeX?	Not deeply, but the system must be able to use LaTeX, and basic knowledge of entering simple mathematical formulas is helpful. The software can handle most of the remaining type-setting work for you.
Do students have to use the same paper type or layout?	It is strongly recommended that the entire class use the same exam layout, preferably the exam paper generated by this system, in order to improve recognition and grading stability.
Can I test with a small batch first?	Yes, and it is highly recommended. First test the workflow and settings with 2–3 submissions before grading the full class. The first sample should ideally be a relatively clean and normal answer sheet, rather than one with excessive corrections or scribbles, since this may interfere with OpenCV detection of answer regions.
What is usually included in the downloaded ZIP report?	It usually includes score tables (CSV / Excel), per-question statistics, teaching suggestions, raw parsed data, and traceable batch information.
When will the Linux version be available?	Linux: To Be Released Soon!

18 Version History

Date	Version	Notes
2026-03-02	v1.0.1 (Manual)	Added: complete beginner workflow, activation guide, troubleshooting chapter, updated FAQ, and full-page UI screenshot explanations.