Release Notes
Kaiju Academy

Group A2

May 9, 2025

Release Notes

Version	Release Date	Author(s)	Summary
1.1	2025-05-07	Group A2	Major release: stable public version, payment/credit system integrated, improved code assessment, and educator dashboards.
1.0	2025-04-12	Group A2	Initial complete implementation: user registration, courses, code runner, basic educator/student features.
0.5	2025-03-12	Group A2	Beta milestone: core backend and frontend features, code execution, user roles.
0.2	2025-03-05	Group A2	Alpha: database schema, initial authentication, minimal course browsing.
0.1	2024-02-20	Group A2	Project setup: repository, pipeline, initial UI prototyping.

1 Features

1.1 Included Features

- User registration, login, authentication (including MFA)

- Course browsing, enrollment, and access

- Interactive code assessment and automated grading

- Profile and progress tracking (student and educator)

- Educator course and material management

- Error handling, security, and data integrity

- Responsive UI/UX across devices (desktop, tablet, mobile)

- Credit system: users can purchase credits and use them to enroll in paid courses.

1.2 Feature Note on Licence Keys

- **Licence key redemption for credits is designed and documented:** Users will be able to redeem a licence key to add credits to their account. This provides an alternative to direct payment, as described in the Design and Implementation document. **This feature is not yet implemented in the current release.**

1.3 Excluded Features

- Community features (forum, dashboard, notifications, calendar)

- Credit/Payment purchasing and related flows via licence key (see note above)

- Modding/hacking scenarios and hardware-specific edge cases

- Third-party payment gateway/internal payment logic

2 What's New in Version 1.1

- **Credit and Payment System:** Users can purchase credits and enroll in paid courses. All payment handled securely via third-party gateway.

- **Improved Code Assessment:** Enhanced code editor with auto-grading, feedback, and support for multiple languages.

- **Educator Dashboard:** Educators can manage courses, track student progress, and upload materials efficiently.

- **UI/UX Enhancements:** More responsive design, improved accessibility, and modernized navigation.

- **Security Improvements:** MFA support, better error handling, and encrypted user data.

- **Performance Optimizations:** Faster page load, scalable backend, and robust deployment on AWS.

3 Fixed Issues

- Fixed bugs in JWT authentication and session expiry.

- Resolved UI glitches in course browsing and profile pages.

- Improved error messages for failed logins and invalid course actions.

- Addressed concurrency issues in code execution and grading.

4 Known Issues

- Limited browser support for some interactive editor features; recommend Chrome or Firefox for best experience.

- Mobile UI in beta; minor layout issues may occur on certain devices.

- Community/forum features are not included in this release.

- **Licence key redemption for credits is documented in the Design and SRS, but not yet implemented in this release. Users can only purchase credits directly via payment gateway at this time.**

5 Upgrade Instructions

1. Backup your database and user data before upgrading.

2. Deploy the new backend Lambda functions and synchronize the SurrealDB schema.

3. Update the frontend application and environment configurations.

4. For production, ensure all environment variables (e.g., `JWT_SECRET`, AWS keys) are set.

5. Test core flows: registration, login, course enrollment, code submission, and educator dashboard access.

6 Credits

- **YU Ching Hei:** Backend, authentication, API design

- **Lei Hei Tung:** Frontend, UI/UX, educator dashboard

- **Ankhbayar Enkhtaivan:** Error handling, code assessment, documentation

- **Yum Ho Kan:** Frontend, user profile, testing

- **Leung Chung Wang:** Documentation, deployment, configuration

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