

CLOUD & MOBILE-FIRST LEARNING PLATFORM

Case study

This case study showcases the delivery of a modern, mobile-first learning platform with a custom admin portal, iOS and Android apps, and a scalable cloud-native backend.



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SUMMARY

Client: Disinvested Youth Gaming Initiative (DYGI)



www.dygi.org

An organization focused on empowering disinvested youth through structured training programs in technology, gaming, and career readiness.

Overview of Use Case

DYGI is transforming the esports landscape into a pathway for young people to build real-world skills in coding, game design, AI, and technology. To support this mission, DYGI partnered with Retinue Systems to design and build a scalable digital learning platform that connects students, mentors, and structured training programs.

Challenge

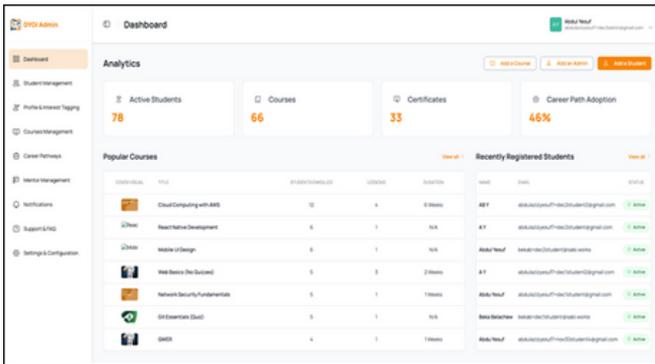
DYGI needed a modern, mobile-first learning platform to support and scale their training programs. Their vision required more than a basic LMS. They needed a solution that could:

- Deliver structured and self-paced learning programs
- Connect students with mentors and career pathways
- Track engagement, progress, and achievements
- Scale as programs and student participation grow
- Deliver a mobile-first experience for students

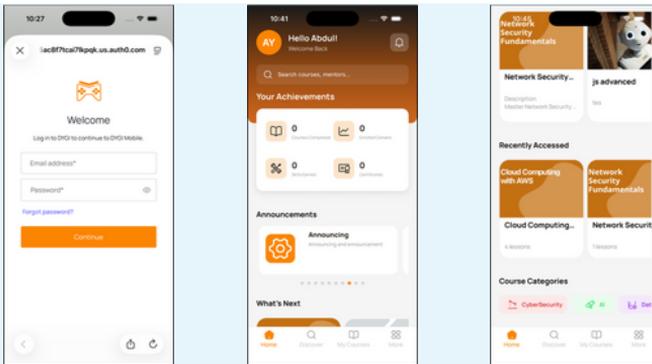
Solution

Retinue Systems designed and built a custom Learning Platform consisting of:

- A fully custom web-based admin portal



- Native mobile applications for iOS and Android



- A scalable cloud native backend architecture to support future growth

The platform was purpose-built around DYGI's operational workflows and student engagement model, rather than forcing them into an off-the-shelf LMS. The Retinue Systems team handled the full lifecycle including UI and UX design, cloud setup, backend APIs, frontend development, and deployment.

This platform serves as the foundation for DYGI's long-term digital learning ecosystem.

KEY FEATURES DELIVERED

Admin Experience (Custom Admin Portal)

- Centralized student management and analytics
- Course creation and content management
- Career pathway and interest tagging
- Mentor management
- Notification and announcement controls
- Operational visibility into program engagement and outcomes

Student Experience (Mobile Apps)

- Secure authentication and personalized student user profiles
- Course browsing, enrollment, and progress tracking
- Access to course schedules, materials, recordings, and quizzes
- Gamification system with points, levels, and achievement badges
- Digital portfolio showcasing completed training, skills, and certifications
- Career pathway guidance based on interests and progress
- In-app notifications for updates and achievements
- Mentorship and support directory
- Full admin control over users, courses, and content

DELIVERY APPROACH

Retinue Systems partnered closely with DYGI through a structured, phased delivery model:

- Planning and UX design
- Backend and API development
- Mobile app development
- Custom admin portal development
- Testing, UAT, and app store submissions

Regular bi-weekly status updates and working sessions ensured transparency, alignment, and rapid feedback throughout the engagement

The project concluded on schedule with final documentation, deployment planning, and handoff completed.

OUTCOMES

- Successfully delivered a production-ready learning platform
- Published mobile apps for iOS and Android (internal testing / iTunes and Google Play stores)
- Provided DYGI with full ownership of the platform and source code
- Enabled DYGI to begin onboarding students and scaling their programs digitally
- Established a strong technical foundation for future feature expansion

IMPACT

Summary of Platform

This platform allows DYGI to:

- Deliver structured, engaging training programs at scale
- Track student outcomes and program effectiveness
- Create clearer pathways from learning to career opportunities
- Expand access to technology education for disinvested youth

Customer Quote



It was a pleasure working with the team at Retinue Systems. At DYGI, we're transforming the esports landscape into a pathway for young people to build real-world skills in coding, game design, AI, and technology. To support this mission, we needed a digital system that could connect mentors and students, deliver structured learning, and scale as our programs grow.

Retinue Systems built exactly what we needed. They delivered a custom admin portal and mobile apps for both Android and iOS. From the start, they took the time to understand our needs, then guided us through design and development. Their team handled everything including UI and UX design, cloud setup and configuration, and both the frontend and backend build. They architected the entire platform with future scale in mind and supported us across Azure, Docker containers, and more. Throughout the project they communicated clearly, navigated logistical challenges with us, stayed within budget, and delivered exactly what they promised. Their team was professional, collaborative, and easy to work with at every step. We'd highly recommend Retinue Systems to any startup or organization looking for advisory support or full application development.

Hal Reynolds

Founder & CEO, DYGI