**EdTech Case Study****Web Application
Development**

Building a unique combination of assessments, coaching, training, consulting, and retreats for organizations

iProgrammer developed a versatile platform to streamline training management and boost engagement. With dynamic surveys, tailored task assignments, and intuitive controls, our solution equips the client with the flexibility and precision needed to scale their business effectively.



iProgrammer, in a nutshell



17 Years of Excellence

For 17 years, iProgrammer has excelled in bespoke product engineering and more.



300+ Products Live

Successfully delivered premier products across both web and mobile platforms to date.



Fortune India 500

iProgrammer has been the technology partner to Fortune India 500 - Hero Corp, Tata Communications and HDFC.



350+ Tech Team

We are more than 350 tech experts with a strong background in various leading technologies.



4 Million DAUs

Our B2C mobile application developed for Vodafone-Idea currently has 4 million daily active users (DAUs).



128 Million End Users

Our applications have been utilized by around 128 million end users globally.



Business Requirement

The client's primary business requirement was to develop a **comprehensive digital platform** for online training management that would enable them to seamlessly create, track, and manage various aspects of their training programs.



Our Solution

The client's core requirement was to build a comprehensive digital platform for managing online training, allowing them to efficiently create, monitor, and oversee every element of their training programs.

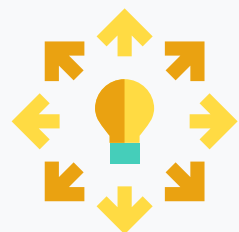
Key needs included:



Role-Based User Management: A system to support distinct roles with specific tasks and permissions for trainers, trainees, and administrators.



Performance Tracking and Analytics: Features for tracking progress, assessing individual performance, and generating actionable insights to enhance training outcomes.



Scalable, Reliable Infrastructure: An architecture that could support business growth while remaining stable, secure, and efficient.



Value Addition

We also developed additional features, going the extra mile to meet and exceed the client's expectations. Here are a few enhancements we introduced:



Communications and Email Templates:

It streamlines engagement with customizable templates for onboarding, reminders, feedback, and milestones. It enables personalized, automated emails based on learner activity, allowing educators to deliver consistent communication with ease.



Dynamic Survey Creation:

Provided the flexibility to design and modify surveys on demand, allowing the client to respond quickly to changing training requirements. This dynamic capability helped keep the training content fresh, engaging, and aligned with evolving business goals.



Dynamic Intel File Creation:

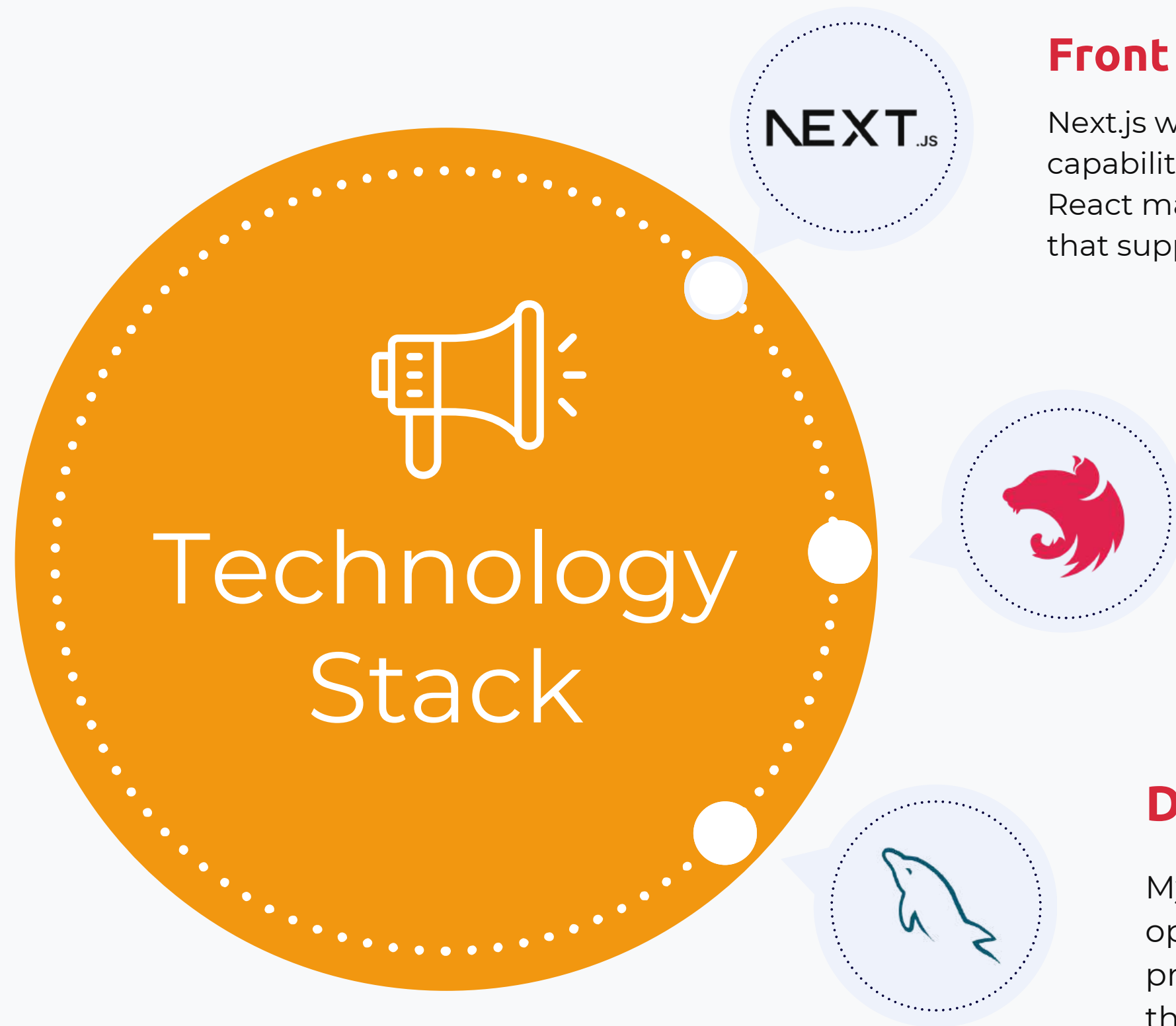
Facilitated the automatic generation of customized files or reports, streamlining the collection and sharing of training data. This feature reduced manual work, increased accuracy, and provided real-time access to key insights, aiding in better-informed decision-making.



My Tasks for Each Persona:

Created a role-specific task dashboard that displays personalized tasks for each user role, such as trainers, trainees, and administrators. This feature improved clarity, streamlined workflows, and ensured that each user had a clear view of their responsibilities, enhancing productivity and engagement.





Front End - Next JS

Next.js was selected for its powerful server-side rendering and static site generation capabilities, ensuring fast load times and a seamless user experience. Its flexibility with React made it an ideal choice for creating a dynamic, interactive training interface that supports modern web standards.

Back End - Nest JS

NestJS was chosen for its scalability and modular architecture, allowing us to build a robust and maintainable backend system. Its support for TypeScript and efficient API management made it perfect for handling the complex, multi-user environment of a training portal.

Database - MySQL

MySQL's reliability and efficient handling of structured data made it an optimal choice for storing and retrieving training records, user profiles, and progress tracking data. Its scalability and data security features ensured that the platform could support growing user demands over time.



Technology Stack



DevOps / Infrastructure

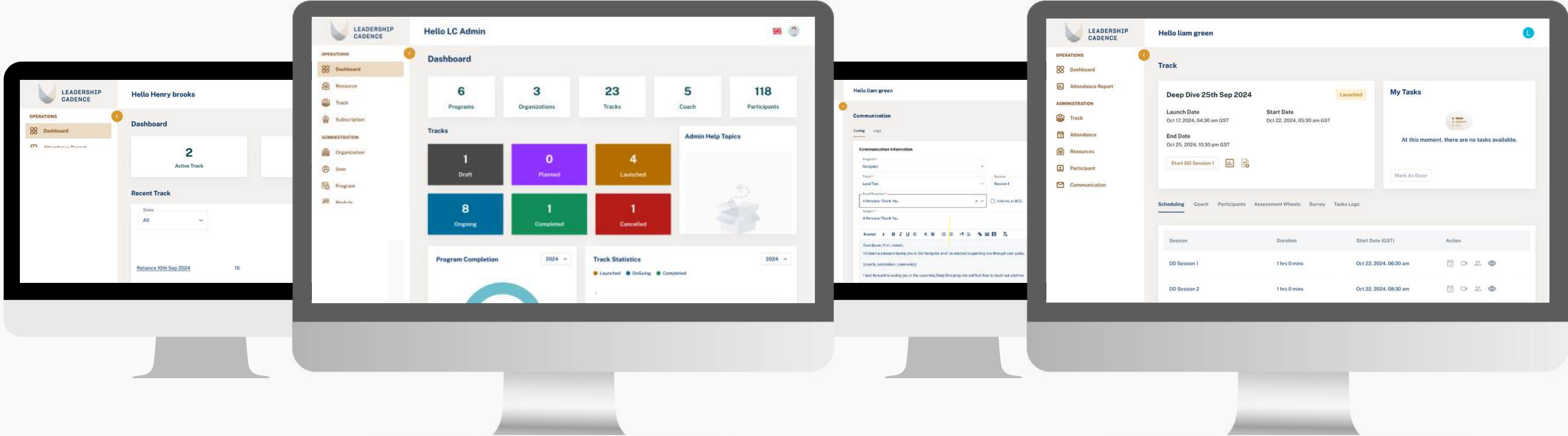
Our DevOps approach focused on continuous integration and deployment, which allowed us to rapidly deliver updates and maintain platform reliability. By automating deployments, monitoring, and backups, we ensured system stability and minimized downtime.



Testing & Quality Assurance: Playwright (Manual and Automated Testing)

Playwright was selected for its ability to handle cross-browser testing, providing a thorough and reliable QA process. Both manual and automated testing allowed us to maintain high quality and consistent functionality across various environments, delivering a smooth experience to all users.

Glimpse of Learning Cadence



Client **TESTIMONIAL**

”

The platform functioned flawlessly with no issues on our end. Excellent work everyone. Your efforts has been exceptional, and truly appreciate all you've accomplished

for the team

”

Hi Akshay,
Congratulations on the successful launch! I want to take this opportunity to sincerely thank you for the exceptional work you've done for the LC project.

for the project lead



LEADERSHIP
CADENCE

What do we offer?

Our Services



Product Engineering

- UI/UX Engineering
- Web Application Development
- Mobile App Development
- Backend/Middleware Development
- Frontend Development
- Data Analytics
- Legacy System Modernization



Cloud & DevOps

- Cloud Consulting
- DevOps Consulting
- DevSecOps Consulting
- CI/CD & Infrastructure Automation
- Kubernetes Adoption



Internet of Things (IoT)

- Device Connectivity
- Data Analytics and Visualization
- Security Solution
- Cloud Integration and Management



Startup Consulting

- Product/MVP Development
- Statutory Compliance Consulting
- Technology Consulting
- Application Development
- UI/UX Design and Business Branding
- Customer Experience Strategy

LET'S BREW SOME COFFEE TOGETHER.



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