ZAYRA TECHNOLOGIES · HORUS LAB

Portfolio dossier

Our solutions and the projects delivered to our clients, from concept to deployment.

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CLIENT PROJECTS · EDUCATION & EDTECH

Case Formations

A fully digital training centre, from sign-up to follow-up.

Client : Tutoring and exam-prep centre · Cameroon



Case Formations prepares learners for the TCF and the civic exam, for German (Goethe-Zertifikat, A1 to C2) and offers tutoring, at home or online. We delivered its whole platform: the website, the back-office and the management app.

THE NEED

Sign-ups, payments, teacher schedules, homework and instalments were handled by hand. The centre wanted to sell its courses online and run its business without juggling tools.

OUR ANSWER

A bilingual website that presents the offer and takes sign-ups by Mobile Money, a back-office that organises the centre's whole activity, and an Android app that gives the directors a real-time overview.

KEY FEATURES

Online sign-up and payment. Catalogue, cart and Mobile Money payment.

Learner area. Each learner finds their courses and sessions.

Schedule and sessions. In-person or online classes, planned by teachers.

Homework and follow-up. Teachers follow their learners and receive their homework.

Instalments and payments. The back-office tracks what has been paid and what is due.

Mobile management. Schedule, finances and staff in the directors' pocket.

Self-managed content. Pages, articles and resources (TCF, Goethe) without a developer.

Roles and audit log. Everyone only sees what concerns them; everything is logged.

SERVICES DELIVERED

- Bilingual website with catalogue, cart and payment
- Centre management back-office
- Android management app for the directors
- API and database
- Hosting, domain and go-live

RESULTS

- **Live at caseformations.com**
- **Sign-ups and payments online, no travel needed**
- **One tool for the centre's whole management**

Technologies : Next.js · TypeScript · Tailwind CSS · Django · PostgreSQL · Flutter · Docker · nginx

Links : https://caseformations.com · https://zayra-technologies.com/en/portfolio/caseformation

CLIENT PROJECTS · ENERGY & INDUSTRY

EnMKit

Control the electricity of a whole housing stock, even without Internet.

Client : 2ME Technologies SARL · Energy



EnMKit is 2ME Technologies' energy-control solution: electrical kits fitted with a GSM module, driven by SMS from a mobile app, and a web platform that centralises the readings. We designed the whole software stack.

THE NEED

Switching off a forgotten appliance remotely and tracking consumption usually needs a permanent Internet connection, which many households lack. The solution had to be reliable on a patchy network.

OUR ANSWER

SMS as the command channel, for its robustness: the app sends orders and the kit confirms them with an acknowledgement. A gateway phone relays readings to the API without losing a single SMS, and the dashboard presents them.

KEY FEATURES

SMS control. Switch each line on and off, without Internet.

A whole housing stock. One phone drives several kits.

Consumption readings. Consumption in kWh, with its history.

Acknowledgements. The kit confirms every order.

QR Code sharing. A kit's configuration is shared with one scan.

Security. PIN code and authorised numbers only.

AI assistant. Consumption analysis and advice on the platform.

Bilingual. French and English.

SERVICES DELIVERED

- Client mobile app (Flutter)
- Test-bench app for training (7 lab sessions)
- Android SMS gateway to the API
- API and web dashboard
- Command and acknowledgement protocol

RESULTS

- **In production at 2ME Technologies**
- **Remote control, even without an Internet connection**
- **An educational bench to teach energy management**

Technologies : Flutter · Dart · Kotlin · Python · FastAPI · Next.js · React · Docker

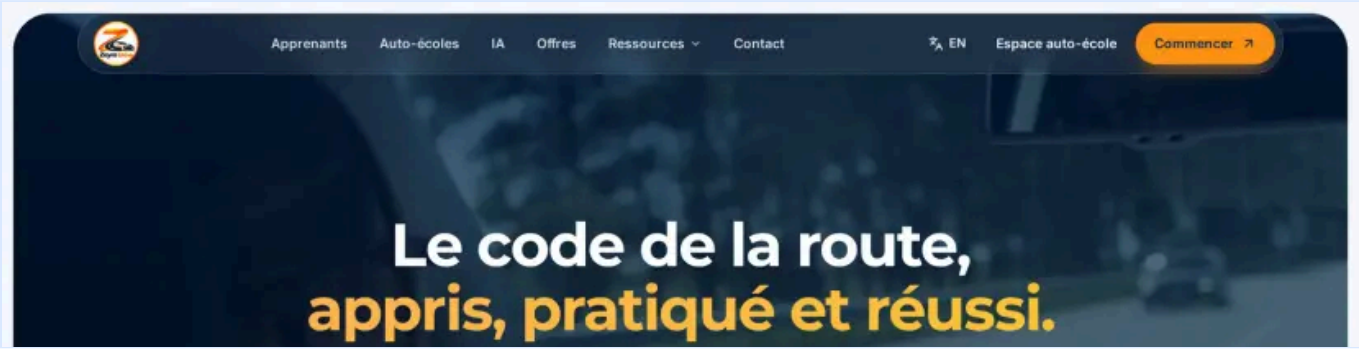
Links : https://www2metechsarl.org · https://zayra-technologies.com/en/portfolio/enmkit

ZAYRA SOLUTIONS · EDUCATION & EDTECH

Zayra Drive

The highway code, learned, practised and passed.

Client : Zayra solution · learners and driving schools



Zayra Drive prepares candidates for the theory part of the Cameroonian driving test: illustrated lessons, picture quizzes, timed mock exams and explained corrections, in French and English. Partner driving schools follow each learner's preparation.

THE NEED

Candidates revised from scattered material with no view of their real level, and driving schools had no way to follow their learners between lessons.

OUR ANSWER

A web platform and an Android app covering the whole journey, from lesson sheet to mock exam, with an AI tutor answering from the Zayra Drive sheets, a readiness score per topic and a dedicated driving-school space.

KEY FEATURES

Real mock exams. 40 timed questions, part A text-only and part B on photos, just like the real day.

Readiness score. Topic by topic, it tells the candidate when to sit the exam.

Sourced corrections. Every answer is explained and backed by the relevant article of the code.

AI tutor per module. It answers questions using the lesson sheets.

Offline revision. Downloadable modules, sessions synced when the network returns.

Zayra Drive Schools. Driving-school dashboard: learner follow-up, DRV-code invitations, official results.

SERVICES DELIVERED

- Product design and user journeys
- Website and management spaces (Next.js)
- API and database (FastAPI, PostgreSQL)
- Mobile Money payments
- Hosting, updates and operation
- Android app (Flutter) with offline revision
- AI tutor per module

RESULTS

- **Live: web and Android app**
- **686 corrected questions, 288 picture quizzes, 17 syllabus modules**
- **Essential plan: 10,000 FCFA for 90 days, paid via Mobile Money**
- **60% of each Essential subscription shared with the partner driving school**

Technologies : Next.js · TypeScript · Tailwind CSS · FastAPI · PostgreSQL · Flutter · Claude (IA) · ReportLab (PDF) · Redis · MinIO · Docker

Links : https://zayra.drive.horus-lab.com · https://zayra-technologies.com/en/portfolio/zayra-drive

ZAYRA SOLUTIONS · EDUCATION & EDTECH

Zayra School

Your school, run simply and securely.

Client : Zayra solution · schools



Zayra School runs a school from enrolment to report card: teachers enter grades, management validates, families pay by Mobile Money and every issued document can be verified online. From nursery to university, in French and English.

THE NEED

Many schools still run on paper or Excel: hard-to-reconcile cash desks, forgeable report cards, families told late about absences and payments.

OUR ANSWER

A single tool tuned for each type of school (primary, French- and English-speaking secondary, LMD, training), with a grade-approval flow, QR-verifiable documents and automatically reconciled Mobile Money payments.

KEY FEATURES

Enrolment and fees. Student records, re-enrolment and instalment payments, official receipts.

Grades and report cards. Entered by teachers, approved by management, dated and verifiable.

Built-in Mobile Money. MTN MoMo and Orange Money, automatic confirmation, never a double payment.

Class life. QR-code attendance, timetable shared on WhatsApp, alerts to families.

Management dashboard. Headcount, cash desk, arrears and results in one place, by role.

Security. Each school isolated in the database, custom roles and a log of every action.

SERVICES DELIVERED

- Product design and user journeys
- Website and management spaces (Next.js)
- API and database (FastAPI, PostgreSQL)
- Mobile Money payments
- Hosting, updates and operation
- QR-verifiable report cards and certificates
- A website for each school

RESULTS

- **Live, accessible from any browser**
- **11 modules, 3 report-card templates (primary, secondary, training)**
- **100% of actions logged**
- **Set-up from 200,000 FCFA, including the school's website**

Technologies : Next.js · TypeScript · Tailwind CSS · FastAPI · PostgreSQL · Flutter · ReportLab (PDF) · MinIO · Docker

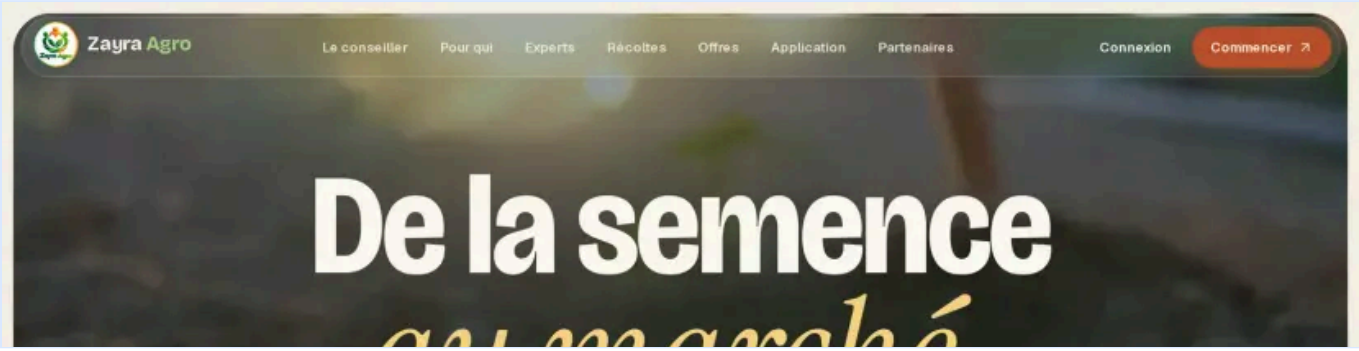
Links : https://zayra.school.horus-lab.com · https://zayra-technologies.com/en/portfolio/zayra-school

ZAYRA SOLUTIONS · AGRICULTURE & AGRITECH

Zayra Agro

From seed to market, an adviser in your pocket.

Client : Zayra solution · farmers and cooperatives



Zayra Agro supports farmers from seed to market: they learn, produce better, protect their harvest and find the right people to buy from and sell to. Input dealers, experts, storage operators and buyers work on the same information.

THE NEED

Farm advice often comes too late for lack of field agents; inputs are costly and sometimes dubious; without storage or a reliable buyer, harvests are sold off cheaply.

OUR ANSWER

An AI adviser built on an indexed agronomy base that cites its sources, training reviewed by agronomists, a catalogue of approved inputs, and links to verified experts when AI is not enough.

KEY FEATURES

AI farm adviser. "My leaves are turning yellow" is enough: it understands the crop, the problem, and cites the reference.

Validated training. Short lessons and quizzes reviewed by agronomists, readable offline.

Approved inputs. Only validated products available close to home are suggested.

Experts and missions. Agronomists, vets, soil scientists: each mission goes to the nearest verified expert.

Selling with confidence. Dated, sourced reference prices; buyers and storage operators to contact directly.

No financial middleman. Farmers pay the seller or expert directly.

SERVICES DELIVERED

- Product design and user journeys
- Website and management spaces (Next.js)
- API and database (FastAPI, PostgreSQL)
- Mobile Money payments
- Hosting, updates and operation
- AI adviser with semantic search (pgvector)
- Light Android app, offline lessons

RESULTS

- **Live: web and Android app**
- **Over 1,500 indexed agronomy sheets**
- **10 regions of Cameroon covered**
- **Free for farmers during launch**

Technologies : Next.js · TypeScript · Tailwind CSS · FastAPI · PostgreSQL · pgvector · Flutter · Claude (IA) · Redis · MinIO · Docker

Links : https://zayra.agro.horus-lab.com · https://zayra-technologies.com/en/portfolio/zayra-agro

ZAYRA SOLUTIONS · FINTECH & MANAGEMENT

Zayra Nkap

Your meeting's ledgers, paper-free.

Client : Zayra solution · tontines and associations



Zayra Nkap keeps a meeting's accounts in real time: contributions, tontines, savings, penalties and proof of payment, even offline on the treasurer's phone. Designed for Bamileke meetings and every tontine in Cameroon.

THE NEED

Meetings keep their accounts in paper ledgers: manual sums, forgotten penalties, disputes over balances and withdrawals, little transparency for members.

OUR ANSWER

An app that follows what the bylaws already provide (shares and half-shares, auctions, guarantors, relief, year-end split), with offline live entry, two-person approval of withdrawals and PDF financial statements.

KEY FEATURES

Live session entry. The treasurer records each payment name by name, even with no network in the room.

Multiple tontines. Several tontines, shares and half-shares, capped auctions and logged random draws.

Loans and relief. Guarantors, schedules and the meeting's relief scale.

Two-person approval. Every withdrawal is approved by two board members.

PDF statements. Minutes, member positions and year-end split, ready to share on WhatsApp.

Money stays with the meeting. Contributions never pass through the tool.

SERVICES DELIVERED

- Product design and user journeys
- Website and management spaces (Next.js)
- API and database (FastAPI, PostgreSQL)
- Mobile Money payments
- Hosting, updates and operation
- Offline Android app (Flutter, Drift)
- PDF financial statements and year-end split

RESULTS

- **Live: web and Android app**
- **Up to 100 members per meeting**
- **30-day free trial, then 5,000 XAF a month or 50,000 XAF a year**
- **Each meeting has its own address and isolated data**

Technologies : Next.js · TypeScript · Tailwind CSS · FastAPI · PostgreSQL · Flutter · Drift (hors ligne) · ReportLab (PDF) · Redis · MinIO · Docker

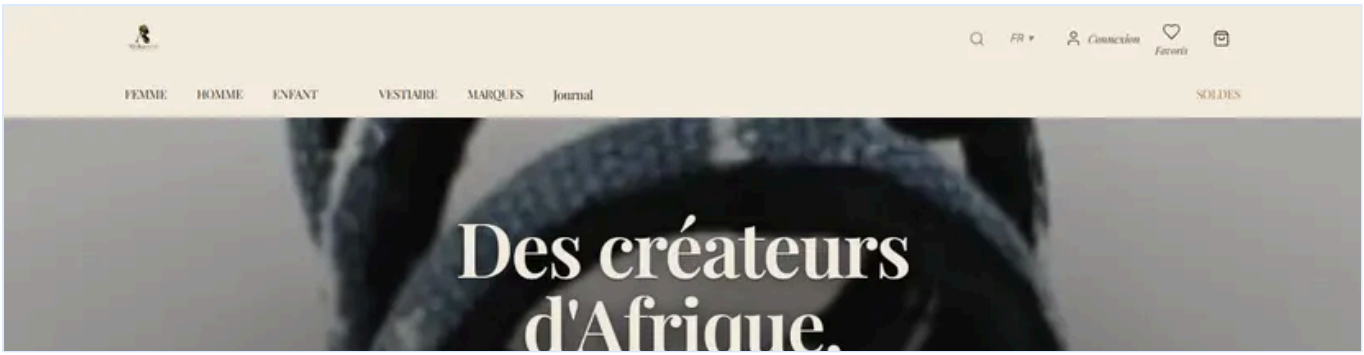
Links : https://zayra.nkap.horus-lab.com · https://zayra-technologies.com/en/portfolio/zayra-nkap

CLIENT PROJECTS · FASHION & E-COMMERCE

Afrikamode

The online store of an African fashion brand, in two countries.

Client : Afrikamode · Italy and Cameroon



Afrikamode is an African fashion brand present in Italy and Cameroon: an in-house line and guest designers, a contemporary aesthetic. We designed and built its multilingual online store and the back-office that runs it.

THE NEED

Selling in two countries and several languages with a demanding brand image, while keeping day-to-day control of catalogue, stock, shipping and marketing without depending on a provider.

OUR ANSWER

A fast, editorial store for customers, and a full back-office for the brand: products and variants, brands, categories, stock, shipping rates, marketing and multilingual content, all self-managed.

KEY FEATURES

Multilingual store. Catalogue, product pages, cart and secure checkout, in several languages.

Filterable catalogue. Filters by size, brand, category and price.

Editorial journal. Fashion and lifestyle content to carry the brand image.

Products and variants. Variant options (sizes, colours), brands and categories.

Stock and shipping. Stock tracking and shipping rates managed from the back-office.

Marketing and CMS. Marketing overview and multilingual content run by the brand.

SERVICES DELIVERED

- Store UX/UI design
- Web development (Next.js) and API
- Custom administration back-office
- Multilingual catalogue and content
- Secure payment
- Go-live

RESULTS

- **Live in Italy and Cameroon**
- **A complete store and back-office, self-managed by the brand**

Technologies : Next.js · Tailwind CSS · FastAPI · Django · PostgreSQL · Docker · nginx

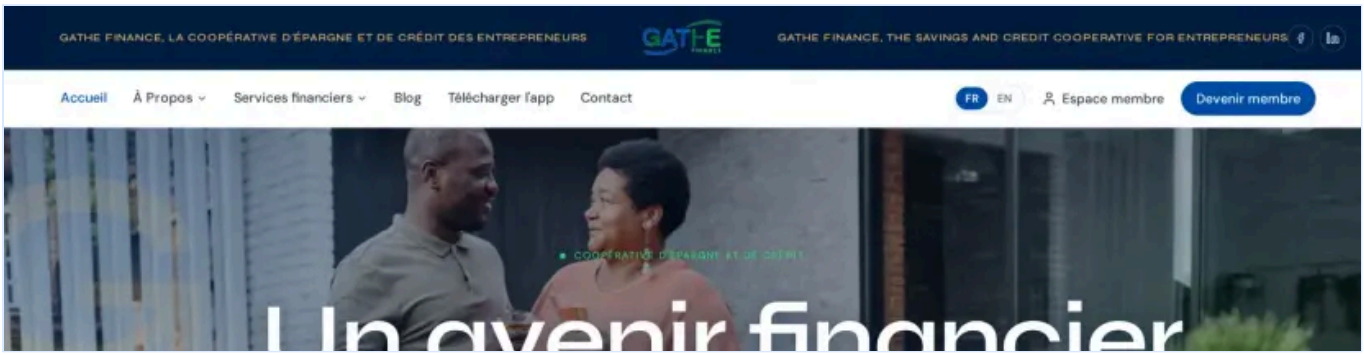
Links : https://afrikamode.store · https://zayra-technologies.com/en/portfolio/afrikamode

CLIENT PROJECTS · FINTECH & MANAGEMENT

Gathe Finance

A savings and credit cooperative, in its members' pockets.

Client : GATHE Finance cooperative · Broad Range Consulting Group



GATHE Finance is a savings and credit cooperative in Douala, an initiative of Broad Range Consulting Group. We replaced its old website and delivered its whole platform: public website, member portal, back-office and mobile app.

THE NEED

Members had to travel to check their balance, deposit, follow their collections or apply for credit, and the old website allowed no transactions.

OUR ANSWER

A complete member journey on web and mobile: savings, daily collections, credit applications and repayments, with a back-office for staff and a self-managed public website.

KEY FEATURES

Savings. Live balance, deposits and withdrawals from free savings.

Daily collections. A collection booklet with its own balance.

Credit. Apply in the app and follow the committee's review.

Repayments. Repay freely, in one or several payments.

Receipts and notifications. Every transaction is confirmed and kept.

News and campaigns. The cooperative informs its members directly.

SERVICES DELIVERED

- Bilingual (FR / EN) CMS-managed public website
- Member portal and back-office
- Mobile app (Flutter)
- API and database
- Hosting and go-live

RESULTS

- **In production at the cooperative**
- **Everyday transactions available from the phone**
- **A public website the team updates on its own**

Technologies : Next.js · TypeScript · Tailwind CSS · Django · Wagtail · PostgreSQL · Flutter · Docker

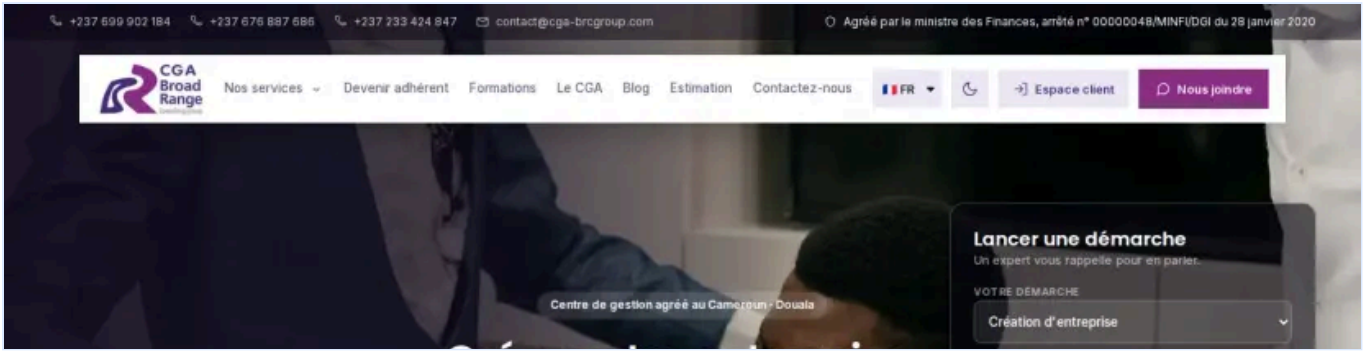
Links : https://gathe-finance.com · https://zayra-technologies.com/en/portfolio/gathe-finance

CLIENT PROJECTS · ACCOUNTING & TAX

CGA BRCG

Tax control upstream: an anomaly caught in time is not a loss.

Client : Broad Range Consulting Group approved management centre · Douala, Yaoundé, Bafoussam



The Broad Range Consulting Group approved management centre (CGA), licensed by the Ministry of Finance, keeps its members' books and handles their tax. We designed its platform: public website, firm console, member area and mobile app.

THE NEED

A non-compliant invoice caught on arrival can still be fixed with the supplier; found three months later, it becomes a tax loss. The firm wanted to move that control upstream.

OUR ANSWER

Every document is checked on arrival and the cost of an anomaly is quantified (for example non-deductible VAT), then carried into the returns. Members send their receipts from their phone, even offline.

KEY FEATURES

Document compliance. Every receipt is checked as soon as it arrives.

Quantified impact. The tax cost of an anomaly is calculated in FCFA.

SYSCOHADA accounting. Entries, trial balance and general ledger.

Tax calendar. Obligations, reminders, penalties and VAT returns.

Member portfolio. Status, financial years and thresholds for each company.

Document collection. Duplicates and completeness checked automatically.

Field app. Photograph a receipt; it is sent when the network returns.

Online sign-up. Pricing, quote, mobile payment and account opening.

SERVICES DELIVERED

- Public website with online estimates and sign-up
- Firm console and member area
- Offline mobile app for receipts
- Business API (13 functional domains)
- Emails, mobile payment and deployment

RESULTS

- **Being rolled out at the firm**
- **A complete journey, from sign-up to tax return**
- **Over 1,000 automated tests on the core business**

Technologies : FastAPI · Python · Next.js · React · Tailwind CSS · PostgreSQL · Flutter · Docker

Links : https://cga-brcg.horus-lab.com · https://zayra-technologies.com/en/portfolio/cga-brcg

CLIENT PROJECTS · EDUCATION & EDTECH

e-Learning platform

Making IT careers accessible everywhere in Africa.

Client : CFP Broad Range Consulting · IT learners

Edlearning is a training platform for IT careers: web development, Python, cybersecurity and more, with structured tracks and learner follow-up.

THE NEED

Training seriously in IT is hard without a clear path or suitable resources, especially far from the big training centres.

OUR ANSWER

Progressive tracks, organised resources and learner follow-up, in a mobile app accessible anywhere.

KEY FEATURES

IT catalogue. Web development, Python, cybersecurity and more.

Structured tracks. Clear steps from beginner to advanced skills.

Progressive resources. Organised content to learn at your own pace.

Learner follow-up. Each learner's progress, visible at any time.

SERVICES DELIVERED

- UX/UI design
- App development (Flutter)
- Learning tracks and learner follow-up
- Go-live

RESULTS

- **A complete catalogue of tech training**

Technologies : Dart · Flutter · Firebase

Links : https://playgoogle.com/store/search?q=Edlearning&c=apps · https://zayra-technologies.com/en/portfolio/elearning

Let's talk about your project

Horus Lab, the lab of Zayra Technologies, designs, builds, hosts and maintains your web and mobile applications.

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