

APPORIX

Digital solutions that go beyond your imagination— Luxembourg

SERVICE DOSSIER

Multi-Platform Apps

One codebase, five platforms — including the desktop workflows most shops skip

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Service page: <https://www.apporix.lu/services/multi-platform-apps>

Service summary

Provider	Apporix, Luxembourg
Service	Multi-Platform Apps
Service page	https://www.apporix.lu/services/multi-platform-apps
Offerings	Multi-platform applications from a single codebase; mobile app development; web app development; desktop app development
Platforms	iOS, Android, Web, Windows, macOS — from one codebase, running natively on each
Distinctive	Desktop coverage alongside mobile and web, including hardware and offline workflows; on-device AI integration; secure backend and store release handled by the same team that builds the app
Typical outputs	Client portals, internal tools replacing spreadsheet workflows, data platforms, admin systems, field apps, installed workstation software, MVPs
Store handling	App Store and Google Play submission, TestFlight and Google Play testing, store assets, review steps and releases
Device capabilities	Camera, GPS, QR and barcode scanning, file uploads, push notifications, offline mode, deep linking, in-app purchases, permissions management, real-time chat, on-device AI
Post-launch	Usage, stability and crash monitoring with GDPR-compliant analytics; OS-change tracking; versioning, installers and IT rollout for desktop
Timeline	A focused MVP in a few months, depending on features, integrations, device requirements, store review and testing
Funding	Some app projects may be relevant for SME Packages Digital (€3,000–€25,000 excl. VAT, 70% reimbursement)

Solutions at a glance

Mobile app development	iOS and Android applications with clean user experience (UX), secure backends and launch-ready delivery. Device features, analytics, store assets, releases and a maintenance path are handled as part of the build.
Web app development	Browser-based portals, dashboards and business tools for users who manage workflows, data and services. Secure roles and permissions can connect the app to application programming interfaces (APIs), databases, customer relationship management (CRM) systems, documents and existing tools.
Desktop app development	Windows and macOS applications for local performance, device access and offline workflows. Local files and hardware can be supported, with installers, versioning and update flows planned for controlled rollout.

About Apporix

Apporix is a Luxembourg technology company that designs, builds and operates custom AI systems, applications, websites and data infrastructure. Over 100 companies, ministries and organisations use its work, including the Luxembourg Ministry of Education (MENJE).

The same team advises, builds, integrates and maintains. There is no handover between a strategy vendor and an implementation vendor, which is why hosting, permission and integration decisions appear in Apporix's recommendations from the first conversation rather than surfacing late as constraints.

What distinguishes Apporix

- **Data stays where the client requires it** — Luxembourg or EU data residency, European cloud, private cloud or on-premise deployment. Zero data retention and no training on company data are available where the deployment model demands it.
- **Compliance expertise in-house** — GDPR and EU AI Act specialists on the team rather than outsourced. Role-based access, activity logs, end-to-end encryption and human approval points are designed before a system is built, not retrofitted afterwards.
- **Research-grade model work** — The team includes conference-published researchers. Deep learning models are trained in-house on client datasets, and transfer learning, data augmentation and few-shot learning make this viable even where data is limited.
- **First live Luxembourgish AI call agents** — Apporix was the first provider to bring live Luxembourgish AI call agents to businesses in Luxembourg. Chat and voice products cover more than 40 languages; consulting and delivery run in English, French, German and Luxembourgish.
- **Built for the Luxembourg tool stack** — More than 100 integrations, including Odoo, BOB50, Outlook, Microsoft 365 and Google Workspace, plus file-based exchange for legacy systems that expose no API.
- **70% of project cost recoverable** — Apporix is an eligible provider for SME Packages AI and SME Packages Digital, and supports clients through the whole application to the Ministry of the Economy.

Company details

Company name	Apporix
Website	https://www.apporix.lu/
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Address	2 Rue Jean Engling, L-1466 Dommeldange, Luxembourg
VAT number	LU32634672
RCS number	B231035
Business authorisation	10098586 / 0
Languages	English, French, German, Luxembourgish
Clients	Over 100 companies, ministries and organisations, including the Luxembourg Ministry of Education (MENJE)

Service portfolio

This document covers **Multi-Platform Apps**. The four services are routinely combined in a single engagement.

Service	Scope	Page
AI Agents & Models	Agentic systems with approved tool use, in-house-trained deep learning models, document AI, chat and voice AI, private AI and AI audits.	apporix.lu/services/ai-agents-and-models
Multi-Platform Apps	One codebase running natively on iOS, Android, Web, Windows and macOS, plus dedicated mobile, web and desktop application development.	apporix.lu/services/multi-platform-apps
Web Development	Websites with the full lifecycle owned end to end, UI/UX design, and search visibility across Google, local search and AI answer engines.	apporix.lu/services/web-development
Data & IT Consulting	Feasibility assessment, AI and digitalisation roadmaps, business intelligence and data integration — carried through to implementation.	apporix.lu/services/data-and-it-consulting

The multi-platform approach

Apporix builds applications from a single codebase that runs natively on iOS, Android, Web, Windows and macOS. Two consequences matter more than the cost saving: an update ships to every platform at once rather than in staggered releases, and users get the same interface and behaviour wherever they open the product.

The five-platform span is the unusual part. Most development shops cover mobile and web; Windows and macOS desktop is where workflows involving local hardware, large local files or offline operation actually live, and dropping it forces those workflows into browser workarounds.

Choosing the platform

Apporix does not assume a platform before understanding the workflow. Many projects combine more than one.

Approach	Right when	Output
Single codebase, five platforms	The same product must reach users across platforms, and simultaneous updates and a consistent experience matter.	One app running natively on iOS, Android, Web, Windows and macOS
Mobile	Users are moving, need camera, GPS or scanning, work in the field, or the product belongs in an app store.	iOS and Android apps with a secure backend, published to the App Store and Google Play
Web	Work happens at a browser, needs roles and permissions, replaces spreadsheets, or must be reachable without installation.	Client portals, internal tools, dashboards, data platforms, admin systems
Desktop	Local performance, hardware access, local file handling, offline work or controlled workstation rollout is central.	Installed Windows and macOS software with installers, versioning and sync

Capabilities available in any build

- **On-device AI** — AI agents and models integrated directly into the application, which connects this service to Apporix's AI practice rather than treating AI as an external API call.
- **Offline mode** — Core features remain usable without a connection, with safe sync once it returns — the deciding capability for field work and weak-connectivity environments.
- **Push notifications** — Alerts, reminders and updates with explicit permission handling.
- **Deep linking** — External links that route users directly to specific in-app content.
- **In-app purchases** — Purchase flows inside the application.
- **Maps and location** — Integrated navigation and location services.
- **Real-time chat** — Instant messaging between users.
- **Permissions management** — Granular control over device permissions.
- **Analytics integration** — User behaviour and application performance tracking, with GDPR-compliant crash and usage monitoring.
- **Multi-language support** — Applications built for multilingual audiences, consistent with Apporix's English, French, German and Luxembourgish delivery.

Solution: mobile app development

Solution page: apporix.lu/solutions/mobile-app-development-luxembourg

iOS and Android applications with secure backends and launch-ready delivery. A mobile app needs more than screens; the work that determines whether it survives is the backend, the device permissions, the store submission and the maintenance path afterwards.

What is included beyond the interface

- **Secure backend** — Most business apps need one. It manages users, data, permissions, notifications, integrations and secure sync between the app and the client's systems — connecting to APIs, CRMs, databases, dashboards and authentication systems.
- **Store release handled end to end** — Store assets, builds, TestFlight or Google Play testing, review steps and releases on the App Store and Google Play. This is where many app projects stall.
- **Device features** — Camera, GPS, QR and barcode scanning, file uploads, and offline workflows for users in the field.
- **Post-launch monitoring** — Usage, stability, crashes and important events tracked with GDPR-compliant monitoring, plus tracking of OS changes that would otherwise break the app silently.
- **Accounts and permissions** — Secure login, profiles, roles, permissions and account workflows.

How a project runs

- 01. Scope** — Define users, workflows, device features, data, platforms and success criteria. The MVP is scoped around the first measurable value, not a feature list.
- 02. Design** — Mobile flows, screens, permission states and interaction detail.
- 03. Build** — The app, secure backend connections, device features and core workflows.
- 04. Test** — Devices, permissions, offline behaviour, performance, crashes and edge cases.
- 05. Launch** — App Store and Google Play submission, then monitoring of usage, crashes and OS changes.

A prototype or MVP is often the best first step: it tests the idea, the core workflow and user response before a full build is committed to. Frequently combined with: web app development, UI/UX design, data integration.

Solution: web app development

Solution page: apporix.lu/solutions/web-app-development-luxembourg

Browser-based portals, dashboards and business tools. The distinction from a website is that users log in and work: they manage records, complete tasks and move through business workflows rather than reading pages.

The common case: replacing a spreadsheet that became a system

Spreadsheets work until they are duplicated, fragile, hard to control or too important for manual ownership. At that point the process needs roles, permissions, change tracking and reliable reporting — none of which a spreadsheet provides. This is the single most frequent driver of a web app project.

What gets built

- **Client portals** — Client access to documents, status, requests and services, with account workflows and status views.
- **Internal tools** — Structured workflows, approvals, task flows, forms and handovers replacing manual follow-up.
- **Data platforms** — Record management, imports, dashboards and business rules.
- **Admin systems** — Secure back-office interfaces for internal teams.
- **Dashboards** — Operational views, KPIs, reporting and management screens.

Every build carries user roles and permissions, protected access, connections to existing databases, APIs, CRMs, email and document systems, and usage and outcome analytics. Data handling, access and hosting are planned from the start rather than added before launch.

How a project runs

- 01. Map** — Users, roles, permissions, data, workflows and integration needs.
- 02. Prototype** — Core screens designed and the workflow tested early.
- 03. Build** — Frontend, backend, database and integrations.
- 04. Secure** — Access, roles, data handling, responsive behaviour, edge cases and security assumptions tested.
- 05. Launch** — Deploy, monitor usage, and improve with real users.

Frequently combined with: UI/UX design, data integration, business intelligence.

Solution: desktop app development

Solution page: apporix.lu/solutions/desktop-app-development-luxembourg

Windows and macOS applications for workflows a browser cannot serve. Desktop is not a legacy choice — it is the correct one when local performance, hardware access, local file handling, offline operation or a controlled workstation rollout is central to the work.

Where a browser will not do

- **Hardware connections** — Scanners, printers, local files and specialist equipment, connected directly where the device, drivers and interfaces allow. Counters, labs and operations rooms are the typical settings.
- **Local performance** — Heavier data, local files, specialist calculations or device tasks handled directly on the machine rather than round-tripped to a server.
- **Offline flows with safe sync** — Key work stays available without a stable connection, with conflict handling defined in advance and sync once users reconnect.
- **Controlled environments** — Settings where access, data and updates need tighter control than a web application permits.

The part usually underestimated: rollout

Installers, versioning, update flows, support and IT rollout are planned from the start rather than after the software works, and are shaped by the client's IT environment, support capacity and user permissions. Desktop projects that skip this are the ones that become unsupportable.

Architecture decides explicitly what stays local, what syncs with the backend, and how conflicts and updates are handled. The application can still sync with APIs, databases, dashboards or central business systems while keeping selected work local.

How a project runs

- 01. Workflow** — Users, devices, files, local data, offline needs and IT constraints.
- 02. Architecture** — What stays local, what syncs, and how conflicts and updates are handled.
- 03. Prototype** — Interface and local integrations tested early.
- 04. Build** — App, local data layer, device connections, installers and update flow.
- 05. Deploy** — Rollout, versioning, monitoring and improvement after deployment.

Frequently combined with: web app development, data integration, UI/UX design.

Funding

Recovering 70% of project cost through SME Packages

Apporix is an eligible provider for the Luxembourgish government's SME Packages schemes, under which the state covers 70% of eligible project costs. For a qualifying project this changes the effective price by a factor of three, and it is a concrete part of how Apporix scopes work: a project is often shaped to fit the programme's value band rather than sized first and funded later.

	SME Packages AI	SME Packages Digital
Covers	Eligible AI projects, including custom agents, automation, chatbots, voice agents, document AI and in-house model training.	Digital marketing solutions such as websites and social media campaigns, management systems including industry-specific software, and electronic invoicing.
State contribution	70% of eligible costs	70% of eligible costs
Project value band	€3,000 to €25,000 (excl. VAT)	€3,000 to €25,000 (excl. VAT)
Eligibility	Luxembourg-based SMEs holding a business permit from the Ministry of the Economy and meeting SME criteria on staff size, annual turnover and annual balance sheet.	Luxembourg-based SMEs holding a business permit from the Ministry of the Economy and meeting SME criteria on staff size, annual turnover and annual balance sheet.
Page	apporix.lu/sme-packages/ai	apporix.lu/sme-packages/digital

Application path

A mandatory pre-analysis must first be arranged with the House of Entrepreneurship (Chamber of Commerce), or with the eHandwerk department of the Chamber of Skilled Trades for craft businesses. Apporix and government advisers then support the client through the remaining steps.

- 01. Initial assessment** — Identify priorities and confirm eligibility.
- 02. Define the project** — Apporix and the client set the software project goals, scope and expected business value together.
- 03. Submit** — Apporix helps submit the application to the Ministry of the Economy.
- 04. Implement** — Apporix builds the solution according to the agreed plan.
- 05. Evaluate and reimburse** — The client completes the evaluation and receives the 70% reimbursement of eligible costs.

Combined with other Apporix services

- **AI Agents & Models** — On-device AI puts agents and models inside the application, and agents, chatbots and voice agents commonly need an app or portal as their interface.
- **Web Development** — UI/UX design produces the wireframes, clickable prototypes and developer-ready Figma handoff the build works from — including responsive layouts across desktop, laptop, tablet, smartphone and foldable screens.
- **Data & IT Consulting** — Data integration supplies the application with clean, source-of-truth data from existing systems; business intelligence turns application data into dashboards and KPIs.