

Product Roadmap

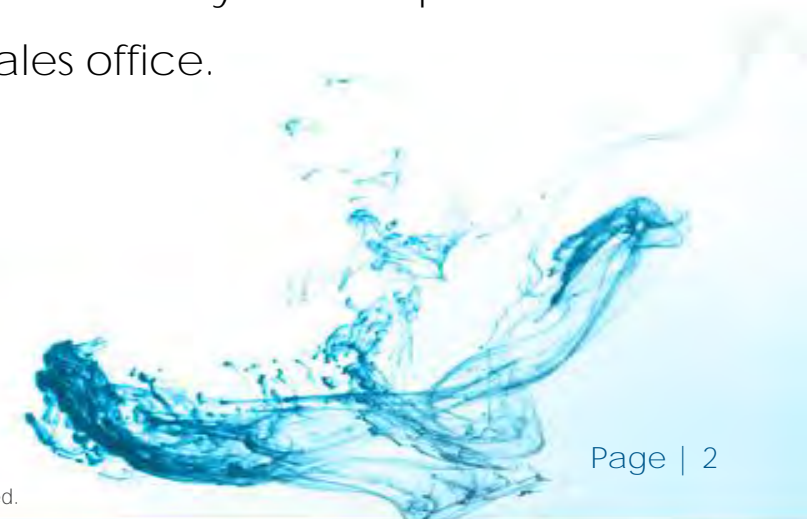
April 2024



FOUR Js
The Power of Simplicity

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ROADMAP

FY24-26

2026

vNext+

GA DEC 2026
EAP OCT 2026

GUI.

- Pixel Perfect Layout (PPL),
- Streamed voice input.

AI.

- Search widget (construct),
- SQL, Form, Report generation,
- BDL coding assistants.

2025

vNext

GA DEC 2025
EAP SEP 2025

GUI.

GBC – **'beautiful' theme**,

Mobile – improved rendering for small devices,

- Chromebar design,
- Multi-row selection,
- Drag 'n' drop,
- Table manipulations.

Smarter web apps – **improved support for 'Front Calls'**,
Premium widget set – chat, circular image, star rating,
multi-field edit, floating action button, bar code
scanner...

Performance & compatibility.

Language & infrastructure,

- Logging, monitoring and observability,
- Authentication delegation,
- REST OpenAPI full support.

Report Writer,

- Smart tables (rowspan, autosize),
- SaaS Report Designer,
- Top N% in charts, transforms and pivot tables (Crystal Reports),
- Other Crystal Reports compatibility features.

AI.

- Conversational UI (chat),
- Chatbot documentation search.

2024

V5

modules

GA FEB 2025
EAP DEC 2024

Genero Web Apps (GWA),
DB Sync – database
synchronization service.

GA DEC 2024
EAP OCT 2024

Theme customizer.

GA SEP 2024
EAP JUN 2024

Cloud & containers.

- Containers & Kubernetes®.

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GENERO V5 MODULES



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CLOUD & CONTAINERS



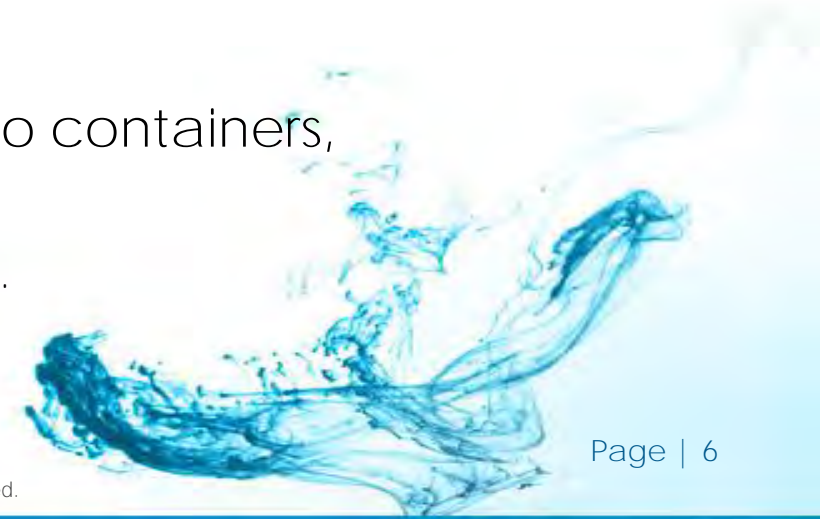
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Cloud & Containers

- Runtime container,
 - Provides a base image with a ready to use runtime environment,
 - Reference application server deployment architecture,
 - Choice of database connectivity,
 - Logging, monitoring.
- Build container,
 - Genero Archive (GAR) build service for Studio projects for integration in CI/CD,
 - Builds a studio project into a GAR file.
- Services.
 - Training (Containers, Cloud, Kubernetes® (K8s)),
 - Application migration project: case by case upgrade to containers,
 - Cost effective deployment to Cloud
 - (simple, docker compose, Application Load Balancer (ALB), K8s).



Cloud & Containers

➤ Uses cases & benefits (Runtime container).

DevOps:

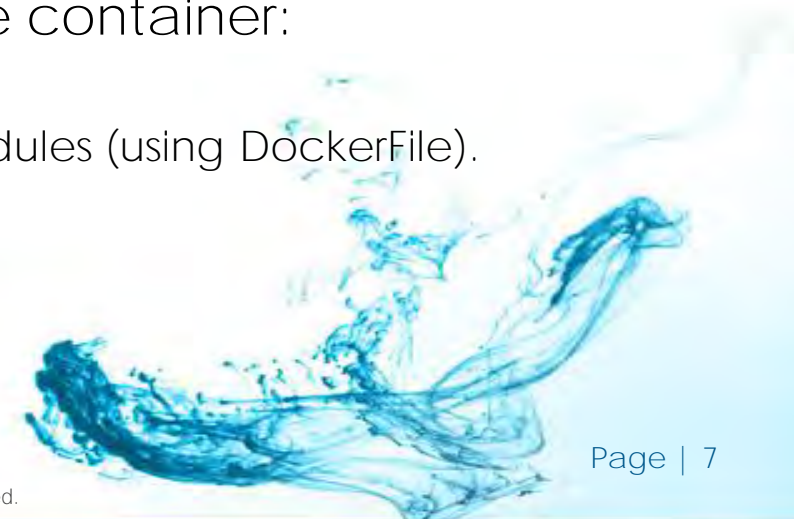
- Reference runtime environment for development and testing,
- Easily share and update environment,
- Reduce the gap between dev & operations,
- Infrastructure as Code (IaC) for a well defined and replicable production system.

Production:

- Virtualization as containers: ease & reliability of deployment,
- Choice of deployment system: on desktop machine, bare metal server, cloud single managed container, cloud with multiple containers and ALB, K8s for high and variable load.

Build application infrastructure from a preconfigured base container:

- Run with a GAR or Binaries,
- Complement base container with custom components and modules (using DockerFile).



THEME CUSTOMIZER



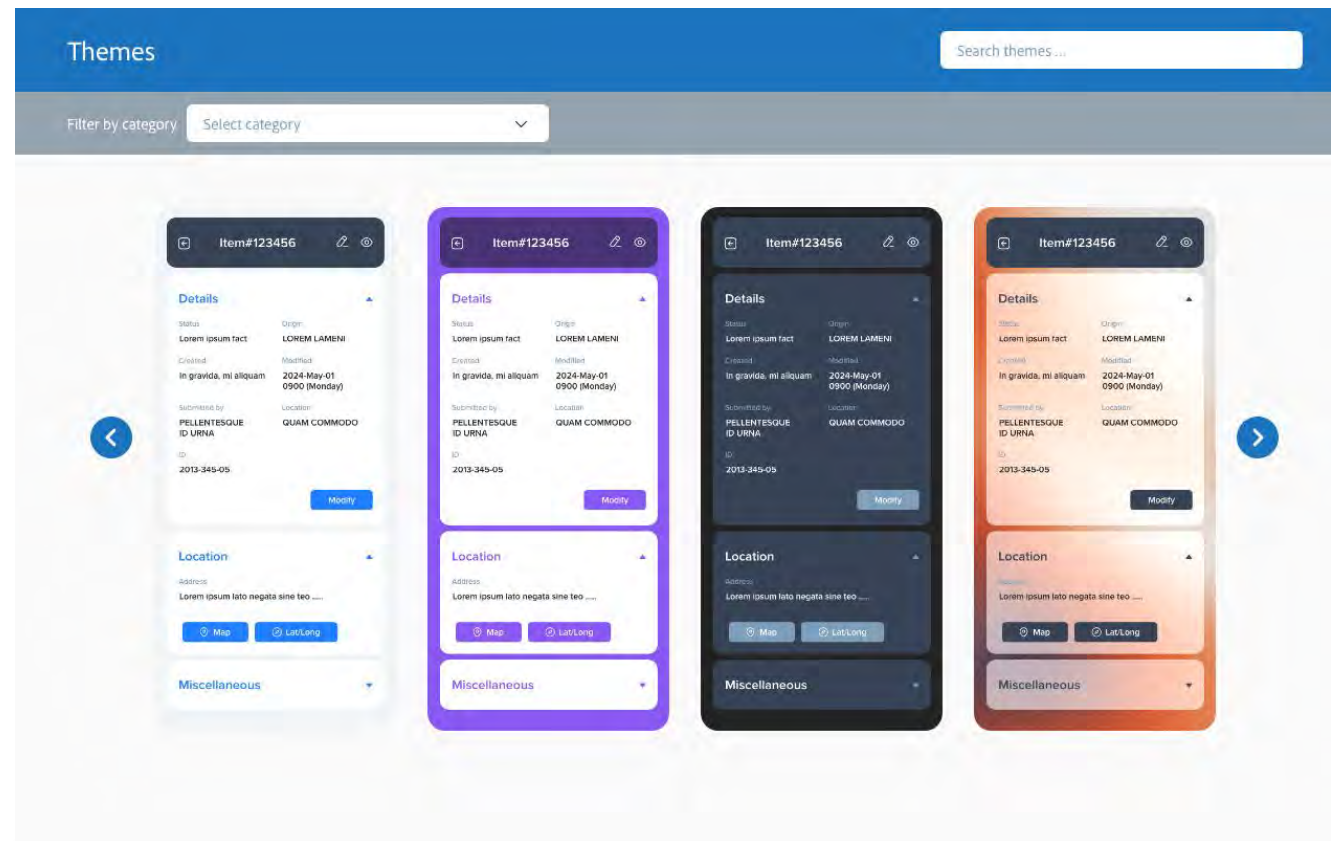
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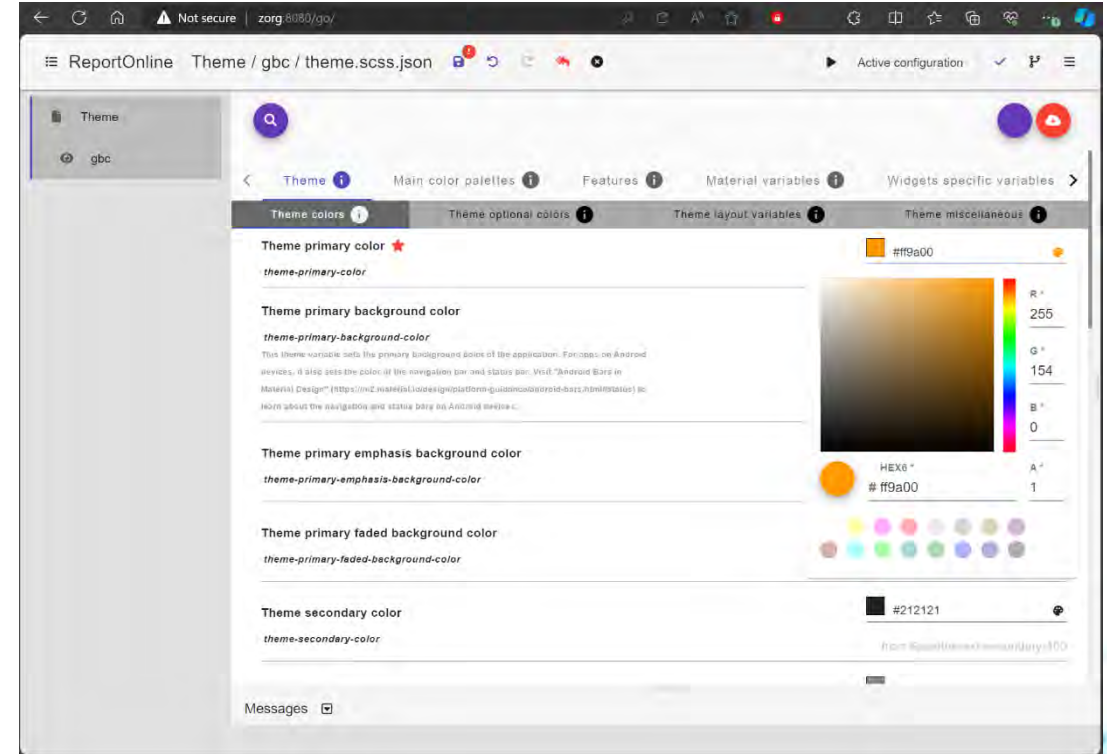
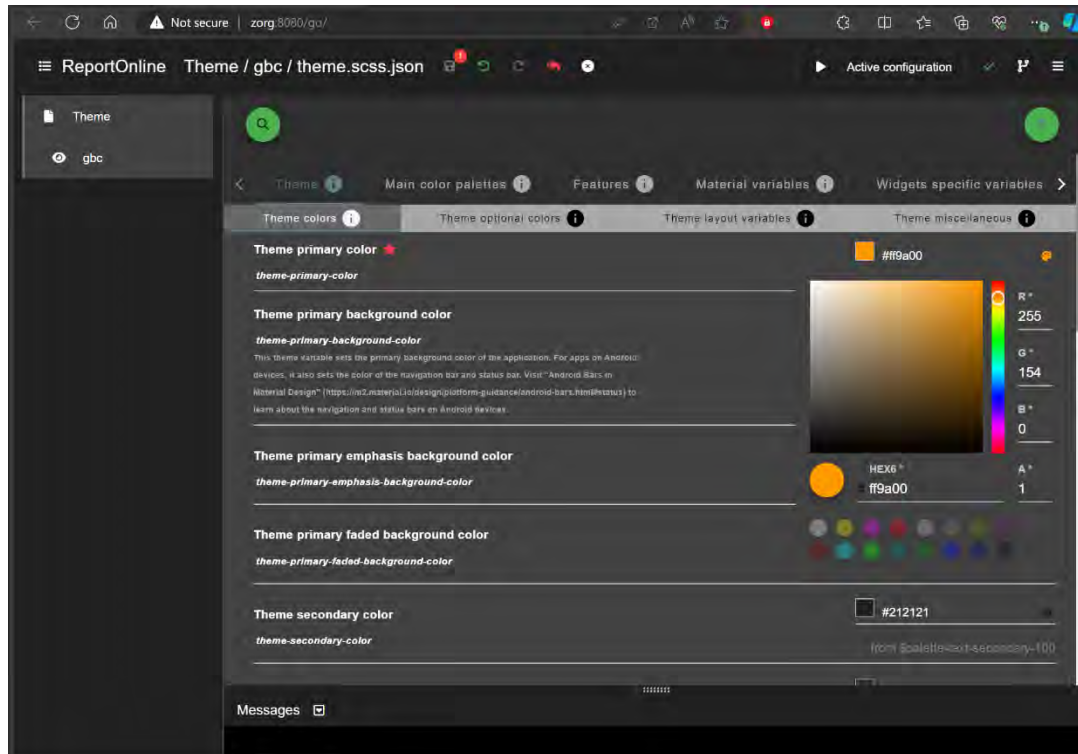
Theme customizer

- GBC Themes available on Web site.
 - Use as a base for custom designs.

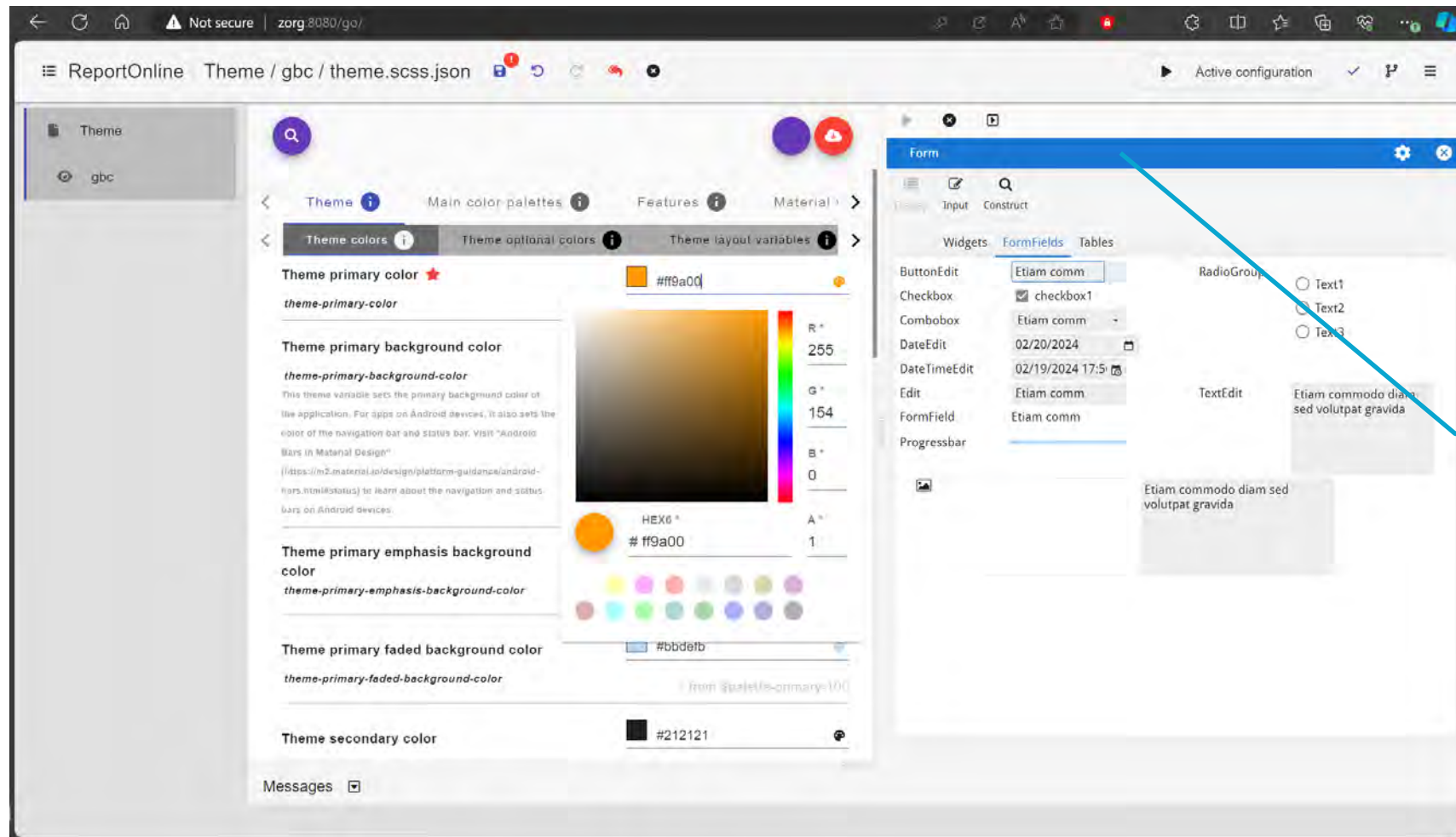


Theme customizer

➤ Online theme customizer.



Theme customizer



Form
Preview

GWA & DB SYNC.

GENERO WEB APPS & DATABASE SYNCHRONIZATION SERVICE



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Genero Web apps (GWA)

- Offline micro-web apps that run in a browser,
 - Runtime and SQLite database offline in the browser.
- Ability to connect to the server.
 - via REST web services,
 - via REST database synchronization service,
 - via “runOnServer” **Front Call: Execute server-side code** with remote display.



Genero Web apps (GWA)

➤ Use cases,

- High scalability: offline workload in the browser,
 - No permanent server connection,
 - Example: offline ordering to the server when local data entry is completed.
- High reliability: resilience to connection outage,
 - Example: POS (Point Of Sale) entering data locally until connection recovery.
- Offline use: use app even when disconnected,
 - Example 1: metro app that can be used when underground,
 - Example 2: delivery app working in no-internet zones.

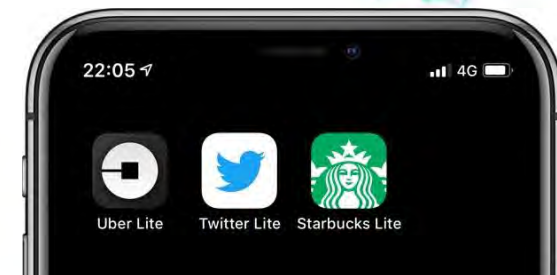
➤ Benefits.

- Deliver apps from web site rather than app stores (eliminate rejection risk & delays),
- Desktop & Web support (all platforms including Web books) in addition to iOS, Android,
- Appears as a standard native platform app.



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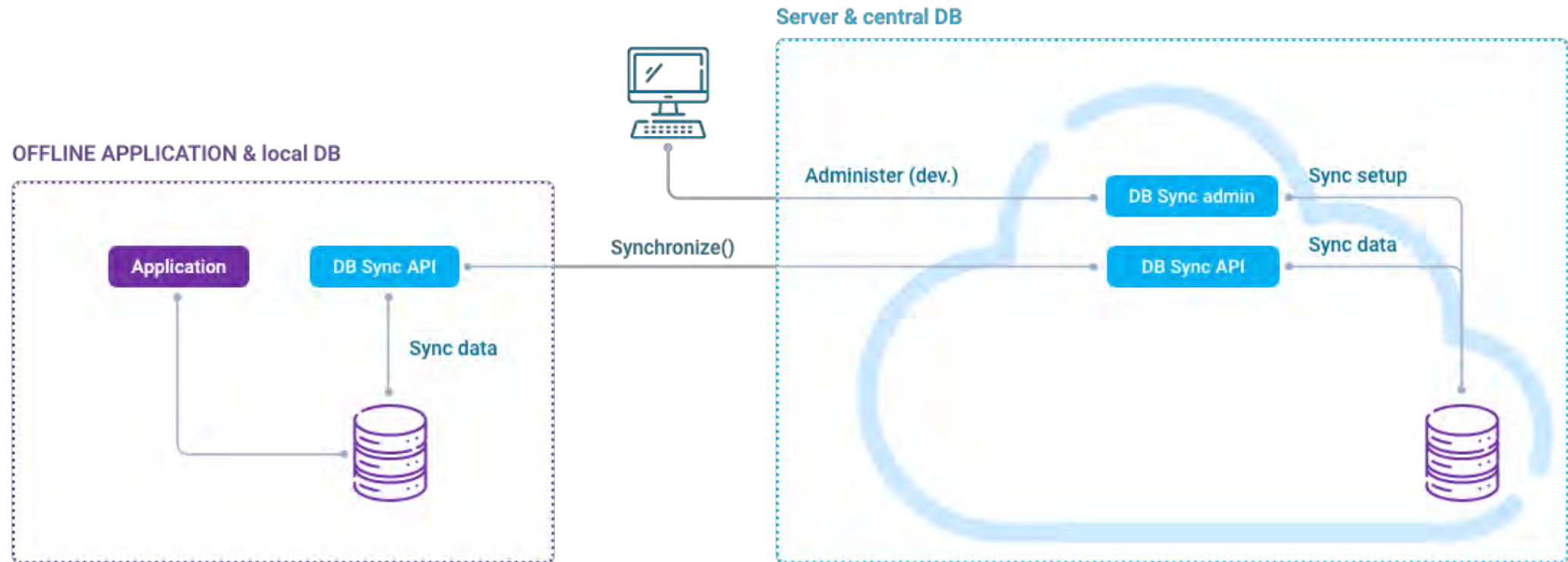


DB Sync – offline apps

- High level database synchronization Web service,
 - Configure what to synchronize via “DB Sync admin” application,
 - DB Sync synchronization API.
- Synchronization features.
 - Read from server database with data filtering,
 - Select database tables to synchronize,
 - Apply filters to data (restrict data by user...).
 - Write to server database strategies per table:
 - Concurrent inserts/updates/deletes may conflict! Optimistic locking applies,
 - Use filters to avoid conflicts (e.g., modification exclusive to owner),
 - No write for read-only data or bespoke write logic (e.g. Web services).



DB Sync (offline apps)



GENERO VNEXT



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GENERO GUI



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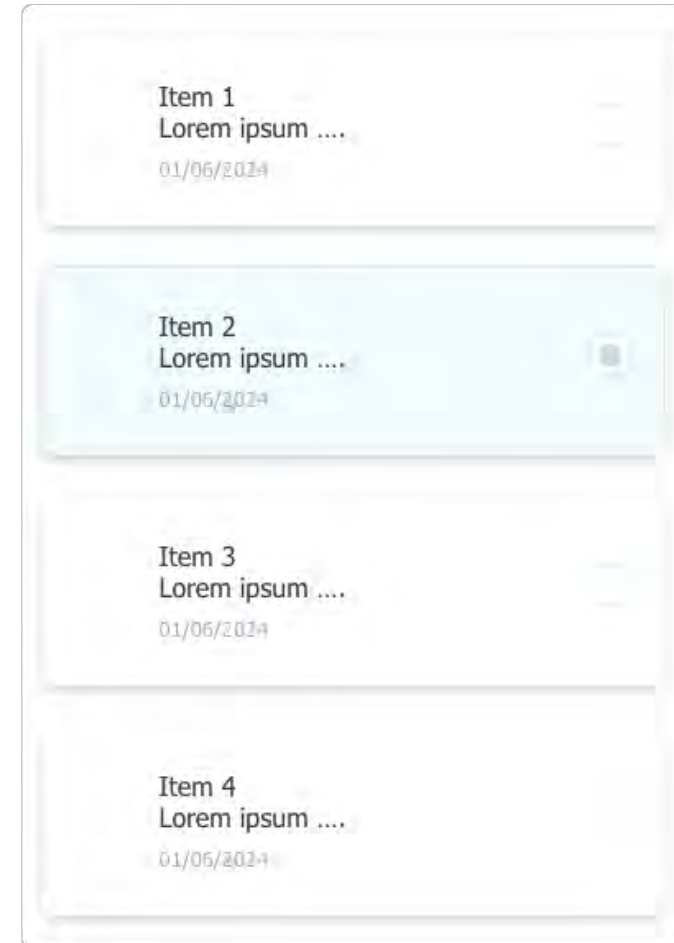
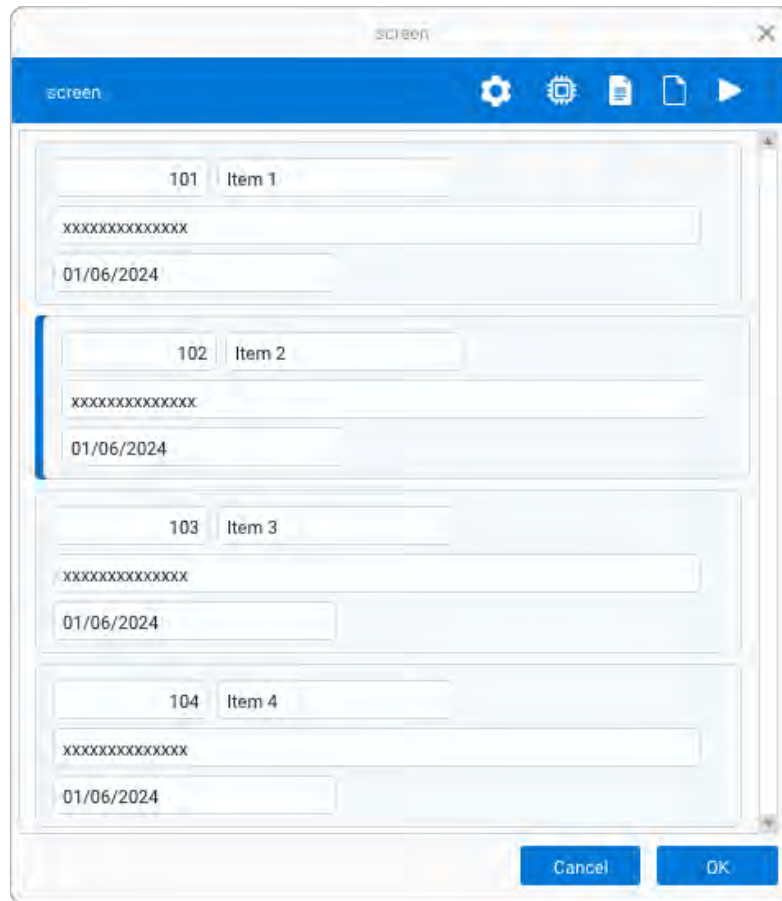


Beautiful themes, better look & feel

- Provide great visual experience out-of-box,
 - Default GUI review by a web designer.
- Enhance rendering of some widgets,
 - Visual Feedback for touch devices (e.g. button pushed),
 - Stretchable ScrollGrid as a card view,
 - Distinct visuals of read only view and editable view.



Beautiful themes, better L&F



Mobile: improved UX on small devices

- Better UX for responsive applications when used on mobile device,
 - Applies to web applications (run in browser) on various devices and packaged apps for iOS (IPA) and Android (APK).
- Components impacted by UX review.
 - Chromebar design (actions back, OK...),
 - Multi-row selection,
 - Drag & drop,
 - Table manipulations (e.g. moving columns).



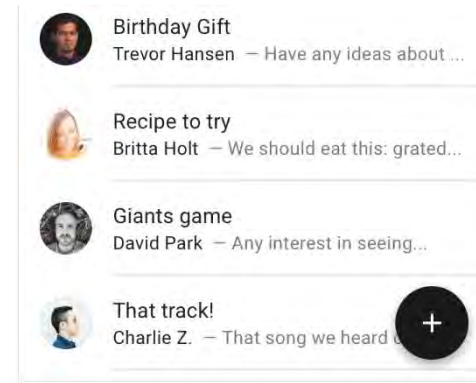
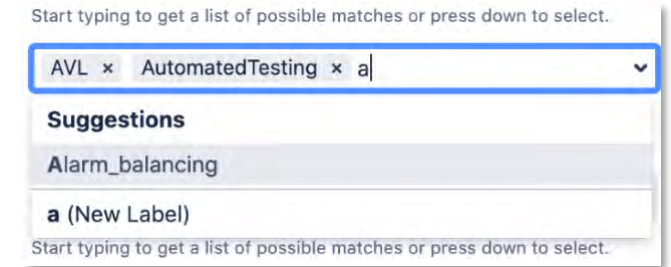
Smarter Web apps

- Eliminate need wherever possible for Genero Desktop Client,
- Front-end specific features provided in Genero Browser Client.
 - Front Call: local notification support...



New Widgets

- Premium widget pack.
 - Chat component to display conversations,
 - Multi-field edit,
 - Circular image,
 - Bar Code scanner specific widget,
 - FAB – Floating Action Button,
 - Star Rating widget.



LANGUAGE & INFRASTRUCTURE



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Logging, monitoring and observability

- Logging / monitoring: manage and secure cloud deployment,
 - Consistent and centralized server-side logging,
 - Monitoring capabilities and metrics for:
 - Application server,
 - DVM,
 - Report Engine,
 - Integrate industry standard monitoring console.
- Observability: metrics of application usage to improve the application.
 - Provide observability at the level of the:
 - Application,
 - Form,
 - Dialog,
 - Action,
 - Per user session.



Authentication delegation

- Delegate authentication to major authentication providers,
 - AWS Cognito,
 - Microsoft Identity (aka. MS Active Directory)...
- Support Application Load Balancer (ALB) authentication delegation.



REST OpenAPI full support

- Support additional OpenAPI attributes.
 - AllOf,
 - AnyOf,
 - Patterns for allowed values,
 - Enums,
 - Comments (function summary, tags).



REPORT WRITER



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Report Writer

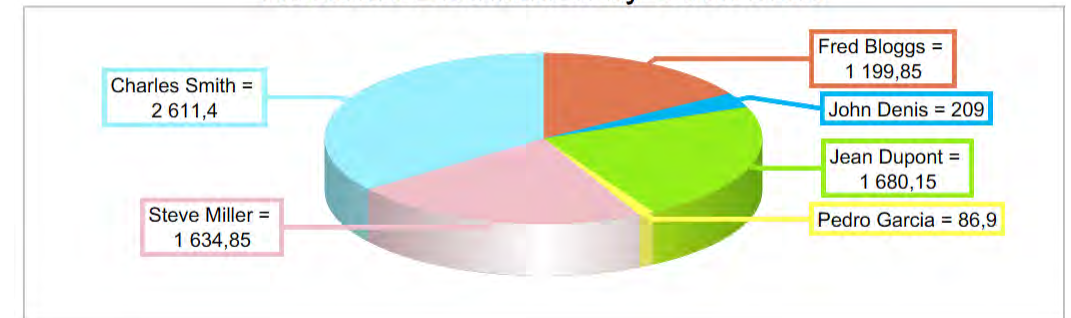
➤ New smart Tables

- Auto column/row size computation depending on data,
- Row span: avoid repeating identical values.

➤ Top N%

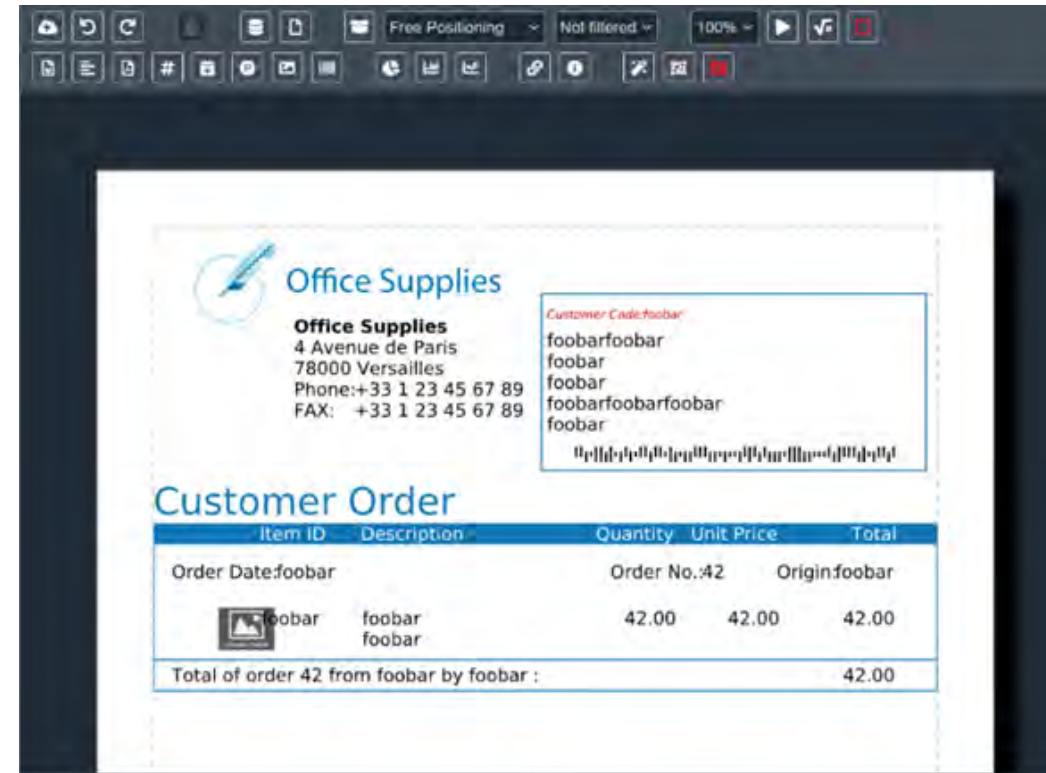
- Filter/Display only Top N% values,
- Applies to.
 - Data transformations (.RST): Filter incoming data source,
 - Charts/Pivot tables: Filter displayed values.

Revenue Distribution by Customers



Report Writer

- SaaS Designer.
 - Online simplified SaaS designer.

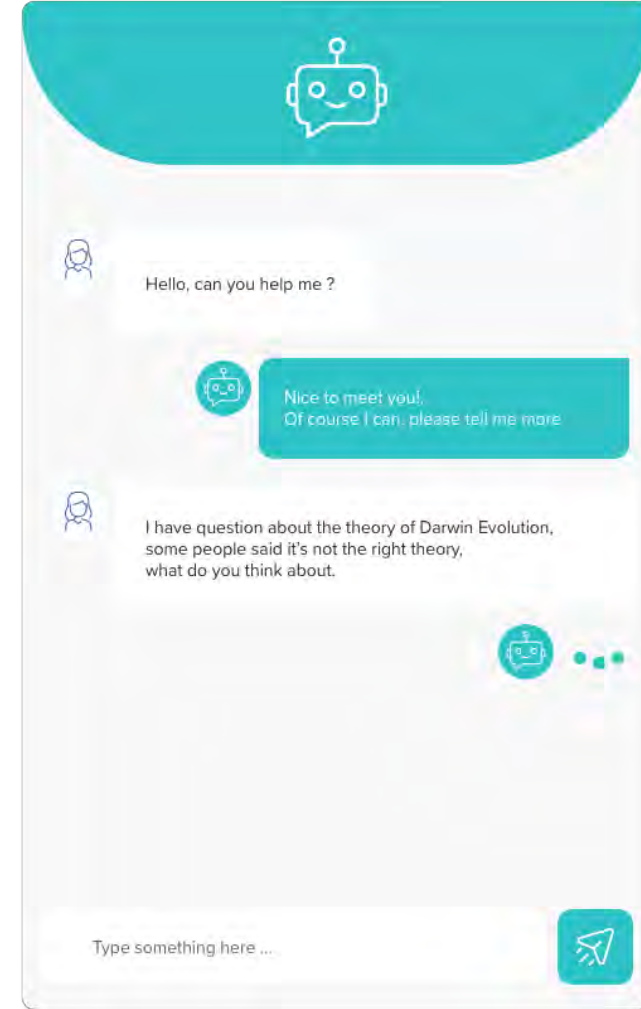


AI



AI

- Conversational UI (chat),
- Chatbot documentation search.
 - Conversational based on Gen AI.



GENERO VNEXT+



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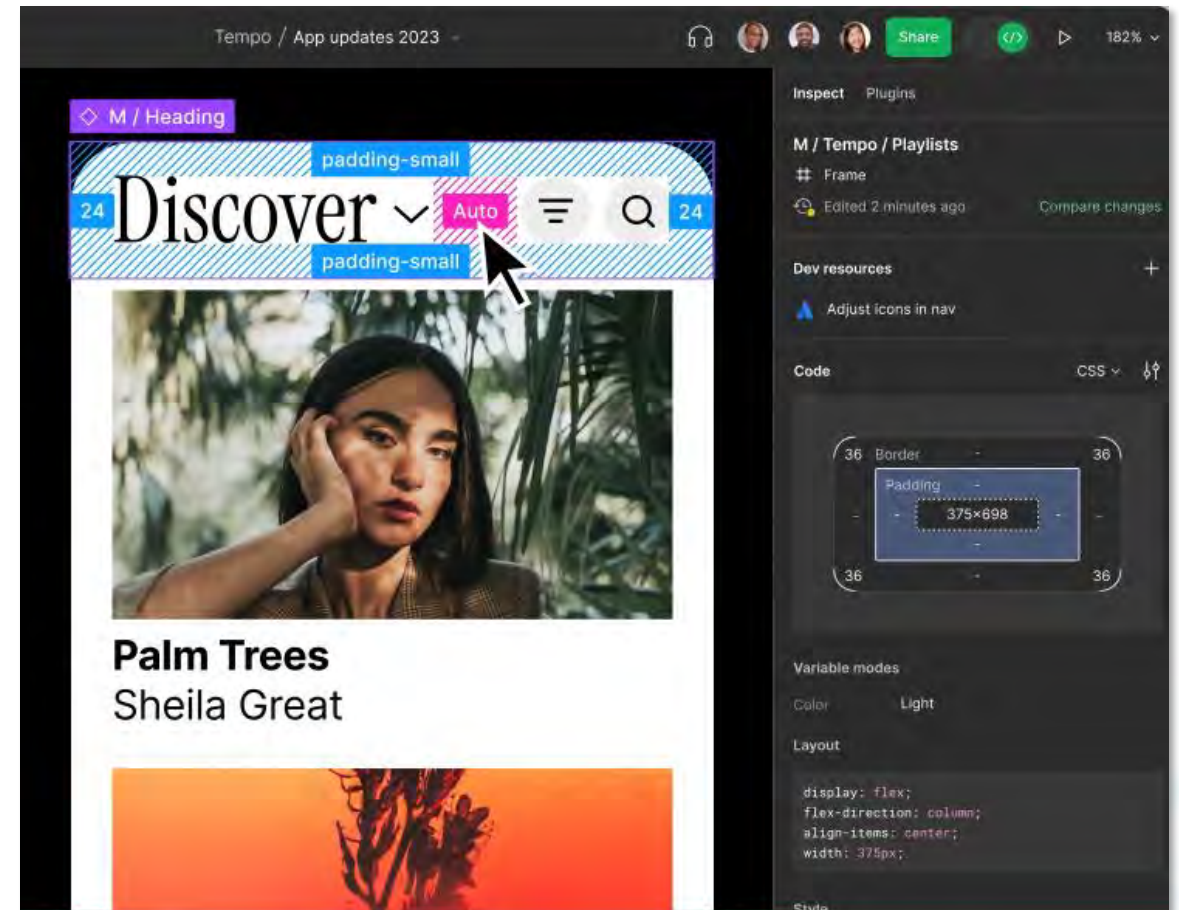
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Advanced GUI

- Pixels perfect layout (PPL),
- Figma design
 - Generate forms from Figma®



AI

- Streamed voice input,
- AI search widget (CONSTRUCT),
- Code generation,
 - SQL dataset,
 - DB schema,
 - Form,
 - Report.
- BDL coding assistants.
 - Completion, correction, commenting, etc.

What are you looking for?



Q&A



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