Sumário

Compras é um aplicativo para registrar os itens comprados em supermercados, farmacias e outros. Estes registros poderam ser comparados com compras anteriores e verificar as alterações nos preços dos produtos e de suas compras mensais.

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- Introdução
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- Changelog
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Introdução

Compras é um projeto criado a partir de uma demanda de minha querida exesposa Jeani Daniela Bortolini para simplificar o controle e o acompanhamento das compras dos usuários.

Produto Mínimo Viável

Nesta primeira versão, o aplicativo irá focar em:

- Registrar os itens comprados e o valor total de cada compra.
- Monitorar variações de preço dos produtos ao longo do tempo.
- Exibir um histórico mensal de gastos e alterações de valores.

Para isso, a aplicação utilizará um banco de dados SQLite local, contendo uma lista genérica de produtos pré-cadastrados.

Versão Final

Em versões posteriores, o sistema será ampliado para:

- Registrar as compras realizadas em um servidor remoto, com autenticação de usuários e gerenciamento de contas.
- Conectar-se a uma API externa para obter dados de produtos via código de barras.
- Permitir ao usuário criar, editar e gerenciar listas de compras.
- Gerar recomendações de melhores locais de compra com base em índices de preço e perfil de consumo.
- Calcular índices de inflação dos preços dos produtos ao longo do tempo.
- Cruzar dados de diferentes consumidores em diversas regiões para análises comparativas.

Arquitetura

A aplicação seguirá o padrão **MVVM**, conforme orientação do Flutter Team, dividida em três grandes camadas:

1. Data

Responsável pelo CRUD junto à fonte de dados. Subdividida em:

- Service Abstrai o servidor de dados e converte o payload bruto em modelos de domínio. Essa camada isola a origem dos dados, facilitando mudanças futuras sem impactar as camadas superiores.
- Repository Responsável por fornecer os dados ao restante do app, orquestrando chamadas ao Service e mantendo um cache interno dos dados já carregados. O Repository também trabalhará como a Source of True dos dados, podendo ser reativo para mudanças nos dados armazenados.

2. Domain

Agrupa modelos e regras de negócio:

- models Declaração de modelos, DTOs e enums da aplicação. Utiliza o freezed para geração automática de Data Classes e DTOs.
- use_cases Classes que organizam regras de negócio mais complexas ou que envolvem múltiplos repositórios. Para casos simples, a lógica pode permanecer na ViewModel.

3. UI

Interface com o usuário e ligação com a lógica de negócio:

- views Componentes de interface gráfica (telas, widgets, layouts).
- view_models Ponte entre as Views e os Repositories/UseCases. Aqui acontece a manipulação de estado e lógica de apresentação; para fluxos muito complexos, a responsabilidade pode ser compartilhada com UseCases.

O diagrama abaixo ilustra a arquitetura proposta pelo time do Flutter MVVM.

De uma forma geral os dados serão transitados dos Repositories para as ViewModels e das ViewModels para os Repositories. Os UseCases serão usados para lidar com regras de negócio mais complexas ou que envolvem múltiplos repositórios.

A camada ViewModel irá gerenciar a reatividade por meio do emprego de um Command, encapulando as regras de negócio e a lógica de apresentação.

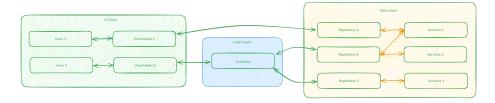


Figura 1: estrutura Básica da Arquitetura MVVM

Para o MVP (Minimum Viable Product)

Para o MVP o diagrama de classes da aplicação será implementado conforme o diagrama a seguir:

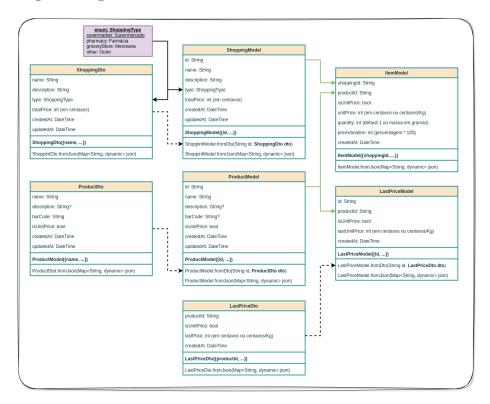


Figura 2: Diagrama de Classes

Onde as classes principais são:

$1. \ Shopping Model \\$

Representa o modelo de dados da compra, contendo os dados de uma compra.

- id identificador da compra;
- name nome da compra;
- description descrição da compra:
- totalPrice valor total da compra;
- type tipo da compra (mercado, farmácia, etc.);
- createdAt data de criação da compra;
- updatedAt data de atualização da compra;

2. ProductModel

Representa o modelo de dados do produto, contendo os dados de um produto, relacionados ao seu código de barras.

- id identificador do produto;
- name nome do produto;
- description descrição do produto;
- barCode código de barras do produto;
- saleBy indica se o produto é vendido a unidade ou a quilo;
- categoryName categoria do produto;
- categoryId identificador da categoria do produto;
- subCategoryName subcategoria do produto;
- subCategoryId identificador da subcategoria do produto;
- createdAt data de criação do produto;
- updatedAt data de atualização do produto;

3. ItemModel

Representa o modelo de dados do item da compra, contendo os dados de um item da compra, como quantidade, preço unitário e produto.

- **shoppingId** identificador da compra;
- **productId** identificador do produto;
- name nome do produto;
- saleBy indica se o produto é vendido a unidade ou a quilo;
- unitPrice preço unitário do produto;
- quantity quantidade do produto;
- priceVariation variação do preço do produto;
- createdAt data de criação do item da compra;
- updatedAt data de atualização do item da compra;

4. LastPriceModel

Esta classe será responsável por manter registros dos valores de compra dos produtos, conforme a data de compra, para facilitar a visualização de variações nos preços dos produtos ao longo do tempo.

- id identificador do registro;
- **productId** identificador do produto;

- lastUnitPrice preço unitário do produto;
- saleBy indica se o produto é vendido a unidade ou a quilo;
- createdAt data de criação do registro;

5. CategoryModel

Representa o modelo de dados da categoria, contendo os dados de uma categoria.

- id identificador da categoria;
- name nome da categoria;

${\bf 6. \ SubCategory Model}$

Representa o modelo de dados da subcategoria, contendo os dados de uma subcategoria.

- id identificador da subcategoria;
- name nome da subcategoria;
- categoryId identificador da categoria;

Category e Subcategory serão empregados para a classificação dos produtos e geração de relatórios de variação de preços.

MVVM para o MVP

Para o MVP o diagrama de classes da implementação do MVVM será implementado conforme o diagrama a seguir:

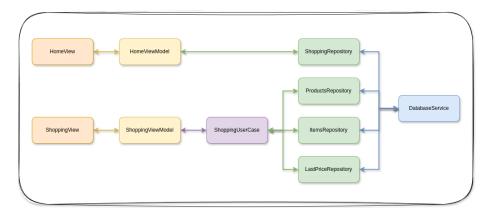


Figura 3: MVVM para o MVP

A HomeView vai manter as listas das compras registradas no aplicativo, sendo responsável por criar novas listas e administrá-las.

A ShoppingView será o responsável por:

• criar novos produtos;

- criar novos registros de preços;
- lançar itens nos carrinhos.

Por isto que este último interage com a ShoppingUserCase, para gerenciar os itens da compra nos diferentes repositórios: ProductRepository, ItemsRepository e LastPriceRepository.

Changelog

This is a list of changes made to the codebase since the last release.

2025/07/08 save_product-03 - rudsonalves

Add documentation structure and reorganize docs assets

This commit introduces the foundational documentation for the Compras project, adding key markdown files and assets. It also renames and relocates existing changelog and diagram files to maintain a consistent docs hierarchy. The changes ensure all architectural and introductory materials are available under docs, with images centralized in the images subfolder.

Modified Files

- $docs/CHANGELOG.md \rightarrow docs/Changelog.md$
 - Renamed the changelog to standardize filename casing and update references.
- $docs/Diagrama_de_Classes.drawio \rightarrow docs/images/Diagrama_de_Classes.drawio$
 - Moved the class diagram file into the images directory for better organization.
- $docs/images/MVVM.png \rightarrow docs/images/MVVM_MVP.png$
 - Renamed the MVVM diagram to reflect its use in the MVP context.

New Files

- docs/Architecture.md
 - Adds the MVVM-based architecture overview, outlining the Data,
 Domain, and UI layers with descriptions and diagrams.
- docs/ai_ready.md
 - Documents the AI-ready commit message generation prompt and guidelines.
- docs/images/MVVM_layers.png
 - Introduces the foundational MVVM layer diagram asset.

• docs/index.md

Provides a project summary and table of contents for the documentation.

• docs/introduction.md

 Adds the project introduction, MVP scope, and planned final version features.

Assets and Test Data

- docs/images/MVVM_layers.png
 - Foundational illustration of the MVVM layers.
- docs/images/Diagrama_de_Classes.drawio
 - Class diagram for the MVP implementation.

Conclusions

All documentation files have been added and existing resources reorganized under the docs directory; the system documentation is now complete and structured.

2025/07/08 save product-02 - rudsonalves

Refactor column constants, DTO field mappings, and improve UI dialogs

This commit refactors the database column constants and SQL schema definitions to use abbreviated naming conventions, updates DTOs and models to support nullable descriptions and renamed JSON keys, enhances the shopping cart user case with comprehensive logging and error handling, corrects UI dialog naming and flow, and streamlines date formatting utilities.

- lib/data/repositories/category/category_repository.dart
 - Updated orderBy and filter parameters to reference CatsColumns and SubCatsColumns instead of the old CategoriesColumns and SubCategoriesColumns.
- lib/data/services/database/database_service.dart
 - Removed redundant null check for id in the set operation prior to database insert.
- lib/data/services/database/tables/sql_tables.dart

- Renamed CategoriesColumns to CatsColumns and SubCategoriesColumns to SubCatsColumns.
- Added new name and priceVariation fields to ItemColumns.
- Updated table creation SQL to treat descriptions as nullable, enforce uniqueness on bar codes, and update foreign key references to use the new column constants.
- Introduced detailed comments for each schema and added indexes for products, last price, categories, and sub-categories.

$\bullet \ lib/domain/dto/cart_item_dto/cart_item_dto.dart\\$

- Made description nullable.
- Renamed fields category \rightarrow categoryName and sub_category \rightarrow subCategoryName with corresponding JSON key updates.

• lib/domain/dto/product/product_dto.dart

- Made description nullable.
- Renamed JSON keys and properties from category → category_name and sub_category → sub_category_name, adjusting factory and mapping logic.

• lib/domain/enums/enums.dart

 Added new ThreeState enum with values yes, no, and indeterminate for dialog handling.

• lib/domain/models/item/item_model.dart

Annotated priceVariation with @JsonKey(name: 'price_variation') for proper JSON serialization.

• lib/domain/models/product/product_model.dart

- Made description nullable.
- Renamed model and JSON fields category \rightarrow categoryName and sub_category \rightarrow subCategoryName.

• lib/domain/user_cases/shopping_cart_user_case.dart

- Improved initialization and save methods with switch cases for Result, logging successes and failures.
- Renamed save to saveItem and updated call sites.

• lib/ui/core/ui/dialogs/bottom_sheet_dialog.dart

 Corrected class name from BottonSheetDialog to BottomSheetDialog and updated state class accordingly.

• lib/ui/core/ui/form_fields/date_form_field.dart

Replaced toDDMMYYYY() with toBrDate() for Brazilian date formatting.

- lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart
 - Imported ButtonSignature and BottomSheetDialog.
 - Switched from save to saving command listener and merged listeners for state updates.
 - Enhanced barcode dialog flow using ThreeState responses.
 - Updated form field properties for capitalization, keyboard input, and null-safe descriptions.
 - Refactored ListenableBuilder to merge multiple notifiers.
 - Added snackbar feedback on save result and handled navigation pop on success
- $\bullet \ lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view_model.dart\\$
 - Renamed save command to saving and updated method call to saveItem.
 - Enhanced error logging logic in barcode lookup.
- $\bullet \ lib/ui/view/home/edit_shopping/edit_shopping_view.dart$
 - Added suffix icons and handlers to insert current date in name and description fields.
 - Imported date_time_extensions for utility methods.
- lib/utils/extensions/date_time_extensions.dart
 - Renamed toDDMMYYYY to toBrDate and updated toBrDateTime to use the new method.

Conclusions

All changes have been implemented and the application is fully functional.

2025/07/05 save_product-01 - rudsonalves

Add product_id and sale_by support to DTOs, models, and views

This commit enhances how cart items and pricing data are represented by introducing a nullable product_id field and a saleBy enum across DTOs, models, and view logic. It refactors factory constructors and mapping methods to streamline creation from CartItemDto, replaces the old isUnitPrice flag with a standardized enum, and updates dependency imports for consistency. View and ViewModel code now capture and propagate the product ID seamlessly.

- docs/Diagrama_de_Classes.drawio
 - Updated draw.io metadata to the latest version for compatibility with the current editor.

• lib/config/dependencies.dart

 Corrected import paths for cart_items repository to use absolute project imports.

• lib/domain/dto/cart_item_dto/cart_item_dto.dart

 Added @JsonKey(name: 'product_id') String? productId to the CartItemDto factory signature.

• lib/domain/dto/last_price/last_price_dto.dart

- Removed the isUnitPrice boolean and SqliteHelpers import.
- Introduced @JsonKey(name: 'sale_by') required SaleBy saleBy enum field.

• lib/domain/dto/product/product dto.dart

- Imported CartItemDto.
- Renamed isEqualModel to isEqualProductModel.
- Added factory ProductDto.fromCartItemDto(CartItemDto dto) to map directly from cart items.

• lib/domain/models/item/item_model.dart

- Added name and priceVariation properties.
- Refactored the create factory to include the new fields.
- Introduced factory ItemModel.fromCartItemDto(String? productId, CartItemDto dto) for direct mapping.

• lib/domain/models/last price/last price model.dart

- Removed isUnitPrice, added @JsonKey(name: 'sale_by') required SaleBy saleBy.
- Updated the create and DTO-to-model mapping to use the new enum.

• lib/domain/models/product/product_model.dart

Set updatedAt: DateTime.now() when mapping from DTO for consistency.

$\bullet \ lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart\\$

- Added a _productId field to hold the fetched product's ID.
- Assigned _productId when a product is successfully loaded.

• lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view_model.dart

- $\ \operatorname{Replaced\ manual\ ProductDto\ instantiation\ with\ ProductDto\ .from CartItemDto.}$
- Updated equivalence check to use isEqualProductModel.
- Simplified item creation to ItemModel.fromCartItemDto.

Conclusions

All manual code and configuration changes are complete, and the application now fully supports product identification and standardized sale types across its data layer and UI.

2025/07/04 save product - rudsonalves

Refactor imports to use absolute paths

This update standardizes all import statements across the project to use absolute package paths (/...) instead of relative or legacy package:compras/... forms, improving consistency and simplifying refactoring.

- lib/config/dependencies.dart
 - Swapped package:compras/data/repositories/... imports for absolute imports (/data/repositories/...).
- lib/data/services/database/database_manager.dart
 - Replaced domain model imports from package:compras/... to absolute imports (/domain/models/...).
- lib/data/services/database/database service.dart
 - Updated exception and result utility imports to absolute paths (/data/services/exceptions/..., /utils/result.dart).
- lib/domain/dto/last_price/last_price_dto.dart
 - Changed SQLite helpers import to absolute path (/domain/models/sqlite_helpers.dart).
- lib/domain/models/product/product_model.dart
 - Reordered imports: moved freezed_annotation import above, and switched enums.dart import to absolute path (/domain/enums/enums.dart).
- $\bullet \ lib/domain/models/sub_category/sub_category_model.dart$
 - Converted DTO import to absolute path (/domain/dto/sub_category/sub_category_dto.dart).
- lib/routing/router.dart
 - Updated category repository and scanner view imports to absolute paths (/data/repositories/category/i_category_repository.dart, /ui/view/scanner_barcode/scanner_barcode_view.dart).
- $\bullet \ lib/ui/core/ui/form_fields/basic_form_field.dart\\$
 - Switched dimens.dart import to absolute path (/ui/core/themes/dimens.dart).
- lib/ui/core/ui/form_fields/selection_field.dart

- Updated BasicFormField import to use absolute path (/ui/core/ui/form_fields/basic_form_fi
- lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart
 - Replaced domain model, fonts, and SelectionField imports with absolute paths.
- lib/ui/view/cart_shopping/cart_shopping_view.dart
 - Changed routes.dart import to absolute path (/routing/routes.dart).
- lib/ui/view/cart_shopping/cart_shopping_view_model.dart
 - Updated cart items repository import to absolute path (/data/repositories/cart_items/i_cart_
- lib/ui/view/home/edit_shopping/edit_shopping_view.dart
 - Added absolute import for shopping model.dart.
- lib/ui/view/home/edit_shopping/edit_shopping_view_model.dart
 - Converted result.dart import to absolute path (/utils/result.dart).
- lib/ui/view/home/widgets/shopping_list_tile.dart
 - Updated multiple imports—model, fonts, dismissible container, and extensions—to absolute paths.

Conclusions

All import statements are now consistent and use absolute package paths, improving maintainability and reducing potential conflicts.

2025/07/04 last_price_repository-10 - rudsonalves

Introduce SelectionField and refine form components and cart UI

This commit replaces the deprecated suggestion text field with a new SelectionField widget, extends BasicFormField to support onTap callbacks, adjusts global dimension values, restructures the snack bar layout for consistent icon and title alignment, and enhances the AddProductCartView and its ViewModel to calculate and display the total dynamically.

- lib/domain/user_cases/shopping_cart_user_case.dart
 - Removed commented-out subCategories method stub that duplicated existing getter logic.
- lib/ui/core/themes/dimens.dart
 - Increased default radius value from 12.0 to 18.0 for all border radii.
- lib/ui/core/ui/dialogs/app_snack_bar.dart

- Wrapped title and icon inside a centered Row when a title is present.
- Moved the Divider to display below the title row.
- Removed explicit icon size to rely on default sizing.

• lib/ui/core/ui/form_fields/basic_form_field.dart

- Added new onTap callback parameter to the widget API.
- Hooked onTap into the underlying text field to handle read-only interactions.

$\bullet \ lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart\\$

- Swapped out SugestionTextField for the new SelectionField in category and sub-category inputs.
- Imported selection_field.dart and fonts.dart instead of the deleted suggestion field.
- Introduced a _total ValueNotifier<double> and listeners on price, quantity, and weight to compute the line total.
- Added a ValueListenableBuilder to display the formatted total in the III
- Updated the "Add" button icon from Symbols.add_rounded to Symbols.add_shopping_cart_rounded.
- Refactored row layout for categories and sub-categories into two Expanded SelectionField widgets.
- Simplified form validation logic in _saving() by correcting the conditional check.

• lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view_model.dart

- Standardized import paths to use absolute package references.
- Updated subCategoriesNames to filter by categoryId before mapping names.

$\bullet \ lib/ui/core/ui/form_fields/sugestion_text_field.dart$

Deleted obsolete SugestionTextField implementation now superseded by SelectionField.

New Files

• lib/ui/core/ui/form_fields/selection_field.dart Provides a readonly dropdown-like text field with built-in menu options for selecting from a list of suggestions and handling focus transitions.

Conclusions

All form components and cart UI enhancements are complete and functional.

2025/07/04 last price repository-09 - rudsonalves

Refactor repo structure, add CartItemDto and SuggestionTextField

This commit reorganizes the cart items repository paths, enriches category and product repository interfaces and implementations, and introduces robust error handling in the database layer. It also adds a new CartItemDto for decoupling item creation from domain models, enhances the ProductDto and ProductModel to support category metadata, and implements a SuggestionTextField component for improved category/subcategory selection in the UI.

- docs/Diagrama_de_Classes.drawio
 - Updated Draw.io file to the latest version metadata.
- lib/config/dependencies.dart
 - Adjusted import paths for cart_items repositories.
 - Initialized CategoryRepository before providing it.
 - Replaced inline provider creation with the pre-initialized categoryRepository instance.
- lib/data/repositories/cart_items/
 - Renamed items/cart_items_repository.dart and items/i_cart_items_repository.dart to cart_items/cart_items_repository.dart and cart_items/i_cart_items_repository.dart.
- lib/data/repositories/category/category_repository.dart
 - Renamed fetchCategories \rightarrow fetchAllCategories and fetchSubCategories \rightarrow fetchAllSubCategories.
 - Removed single _categoryId field in favor of a _loadsCategoryIds cache list.
 - Added category(String) getter, getSubCategory(...) async lookup, and private helper _subCategoriesList(...).
 - Updated updateSubCategory signature casing.
 - Streamlined subcategory caching logic.
- lib/data/repositories/category/i_category_repository.dart
 - Updated interface to match renamed methods: fetchAllCategories, fetchAllSubCategories.
 - Added getters subCategories, getSubCategory(...), and category(String).
- lib/data/repositories/products/i_products_repository.dart
 - $-\ {\rm Added}\ {\tt fetchByBarCode}({\tt String}\ {\tt barCode})$ to interface.
- lib/data/repositories/products/products_repository.dart

 Implemented fetchByBarCode with filter query and in-memory caching.

• lib/data/services/database/database_service.dart

- Imported RecordNotFoundException.
- Replaced all generic Exception('No record found...') throws with RecordNotFoundException for consistency.

• lib/data/services/database/tables/sql_tables.dart

 Added categoryName and subCategoryName columns to ProductColumns and SQL table schema.

• lib/domain/dto/product/product_dto.dart

- Imported ProductModel.
- Added category and subCategory fields.
- Introduced is Equal Model method to compare DTO and model.

• lib/domain/models/product/product_model.dart

Added category and subCategory fields and updated JSON serialization in .g.dart.

• lib/domain/user_cases/shopping_cart_user_case.dart

- Updated imports to new cart_items path.
- Exposed categories and subCategories getters.
- Implemented findProductByBarCode to fetch the product and preload subcategories.
- Renamed and added helper methods for subcategory fetching.

• lib/routing/router.dart

- Updated import for cart items repository.
- Changed AddProductCart route builder to accept ShoppingModel via state.extra.

• lib/ui/core/ui/form_fields/basic_form_field.dart

- Added errorText, labelStyle, onFieldSubmitted, initialValue parameters.
- Wired initialValue, errorText, labelStyle into InputDecoration and field callbacks.

• lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart

- Switched to SugestionTextField for category/subcategory input.
- Added ShoppingModel to widget constructor and route passing.
- Introduced RecordNotFoundException-based UI messaging.
- Updated save logic to build CartItemDto.

• lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view_model.dart

- Switched save command to accept ${\tt CartItemDto}.$
- Added fetchAllSubcategories command.
- Implemented product creation/update before item save.
- lib/ui/view/cart_shopping/cart_shopping_view_model.dart
 - Updated import path for cart items repository.

- lib/data/services/exceptions/exceptions.dart Defines RecordNotFoundException for clearer error handling.
- lib/domain/dto/cart_item_dto/cart_item_dto.dart Freezed DTO for cart item creation.
- lib/ui/core/ui/form_fields/sugestion_text_field.dart New auto-complete text field for suggestion-based input.

Conclusions

All changes are complete and the system remains fully functional.

2025/07/03 last price repository-08 - by rudsonalves

Enhance category repo, add QR scanner flow, and rename number controller

This update improves subcategory loading by ID, integrates a QR code scanner into the "Add Product" workflow, and standardizes numeric input handling. It refactors product DTO/model fields to use category_id and sub_category_id, injects new commands into the view model, and adds utility and scanner view files.

- Makefile
 - Added run_build_runner_watch target and swapped its behavior with run_build_runner.
- lib/config/dependencies.dart
 - Registered ICategoryRepository with CategoryRepository(dbService).
- lib/data/repositories/category/category_repository.dart
 - Introduced _loadsCategoryIds to avoid redundant subcategory fetches.
 - Removed unnecessary clearing of _subCategories.
 - Added fetchSubCategory(String) to load a single subcategory by ID.

 Moved and documented _findCategoryId and _findSubCategoryId helper methods.

• lib/data/repositories/category/i_category_repository.dart

 Extended interface with fetchSubCategory declaration and detailed DartDoc for each method.

• lib/domain/dto/product/product_dto.dart

 Renamed category → @JsonKey('category_id') categoryId and subcategory → @JsonKey('sub_category_id') subCategoryId.

• lib/domain/models/product/product_model.dart

- Updated model fields to match DTO: categoryId and subCategoryId.

• lib/domain/user_cases/shopping_cart_user_case.dart

- Injected ICategoryRepository.
- Added findProductByBarCode and getSubCategory methods to support lookup by barcode and subcategory retrieval.

• lib/routing/router.dart

- Provided categoryRepository to ShoppingCartUserCase.
- Added GoRoute for the scanner view.
- Imported QrCodeScannerView.

• lib/routing/routes.dart

- Declared new scanner route constant.

• lib/ui/core/ui/editing_controllers/number_editing_controller.dart

- Renamed from currency_editing_controller.dart to number_editing_controller.dart.
- Changed regex to allow digits only and renamed currency Value \rightarrow number Value.

• lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart

- Integrated snack bar feedback and GoRouter push to the scanner route.
- Added listener for findProductByBarCode, showing a loading dialog and populating fields on success.
- Captured scanned code and triggered barcode lookup.
- Stored categoryId/subCategoryId for subsequent subcategory fetch.

$\bullet \ lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view_model.dart\\$

- Added find ProductByBarCode and getSubCategory Command1 instances.

- lib/ui/view/scanner_barcode/scanner_barcode_view.dart Implements a full-screen QR/barcode scanner using mobile_scanner, returning the scanned value on pop.
- lib/utils/extensions/list_equality.dart Provides ListEquality for deep list comparisons, copied from the Dart collection package.

Conclusion

With these changes, the app now supports barcode-driven product lookup, efficient subcategory fetching, and a unified numeric input controller, ensuring a smoother "Add Product" experience.

2025/07/02 last_price_repository-07 - by rudsonalves

Implement category management layer and enrich DatabaseService documentation

This commit introduces a new category management layer by defining the ICategoryRepository interface, its CategoryRepository implementation, and the SubCategoryDto. It also registers the category repository in the dependency graph and enriches the DatabaseService with detailed documentation for common CRUD operations.

- Makefile
 - Added run_build_runner_watch target for selective build_runner watching.
 - Swapped the definitions of run_build_runner_watch and run_build_runner commands.
- lib/config/dependencies.dart
 - Imported ICategoryRepository and CategoryRepository.
 - Provided CategoryRepository(dbService) under ICategoryRepository in the dependency list.
- $\bullet \ lib/data/services/database/database_service.dart$
 - Added XML-style DartDoc comments for fetchById, fetchByFilter, fetchAll, insert, set, update, updateWhere, delete, and deleteWhere.
 - Clarified parameter descriptions and return semantics for each CRUD method.
- lib/domain/dto/product/product_dto.dart

- Adjusted import to use project-root relative path for SaleBy enum (/domain/enums/enums.dart).
- lib/domain/models/sub_category/sub_category_model.dart
 - Imported SubCategoryDto.
 - Added factory SubCategoryModel.fromDto(String id, SubCategoryDto dto) for DTO-to-model mapping.

- lib/data/repositories/category/i_category_repository.dart Defines the ICategoryRepository interface for fetching, inserting, updating, and deleting categories and subcategories.
- lib/data/repositories/category/category_repository.dart Implements ICategoryRepository, managing in-memory caches and delegating CRUD calls to DatabaseService.
- lib/domain/dto/sub_category/sub_category_dto.dart Freezed DTO class for serializing and deserializing subcategory payloads, with JSON support.

Conclusion

Category management infrastructure is now in place, and the DatabaseService is fully documented for robust data operations.

2025/07/02 last_price_repository-06 - by rudsonalves Implement category support, saleBy enums, and enhance cart flow

This commit introduces full support for product categories and subcategories across the database, DTOs, models, and UI. It also replaces the deprecated isUnitPrice flag with a SaleBy enum, updates routing for the cart flow, and enriches the "Add to Cart" form with quantity, weight, and category selectors. Additionally, the database bootstrap now populates initial category data.

- Makefile
 - Refined run_build_runner command to only watch domain models and DTOs under lib/domain/models/** and lib/domain/dtos/**.
- docs/Diagrama_de_Classes.drawio
 - Updated class diagram to reflect new CategoryModel, SubCategoryModel, and SaleBy relationships.
- \bullet ios/Runner/Info.plist

 Added NSCameraUsageDescription and NSPhotoLibraryUsageDescription keys for QR code scanning and photo library access.

• lib/data/repositories/items/cart_items_repository.dart

- Removed obsolete _isInitialized flag.
- Changed initialization guard to check _shoppingId equality instead of a boolean.

• lib/data/services/database/database_manager.dart

- Imported CategoryModel, SubCategoryModel, and Uuid.
- Created categories and subCategories tables and indexes in onCreate.
- Added _populateCategoriesTables to seed initial category/subcategory data on database creation.

• lib/data/services/database/tables/sql_configurations.dart

 Defined categories map constant with all category names and their subcategories.

• lib/data/services/database/tables/sql_tables.dart

- Added Tables.categories, Tables.subCategories, CategoriesColumns, and SubCategoriesColumns.
- Modified products, items, and lastPrice table definitions to include sale_by, category_id, and sub_category_id columns, plus corresponding foreign keys.
- Added creation statements and indexes for categories and sub_categories tables.

• lib/domain/dto/product/product_dto.dart

- Replaced isUnitPrice boolean with saleBy: SaleBy enum.
- Added optional category and subcategory fields.

• lib/domain/enums/enums.dart

Renamed byUnit/byWeight to unit/weight in SaleBy enum, updating their labels.

• lib/domain/user_cases/shopping_cart_user_case.dart

 Added save and update stubs returning delayed Result.success, preparing for real repository calls.

• lib/routing/router.dart

- Switched GoRoute for /shopping into a ShellRoute, providing ShoppingCartUserCase via Provider.
- Updated nested routes for addProductCart, passing userCase to view models.

• lib/routing/routes.dart

- Adjusted addProductCart route's path to be relative under /shopping.
- lib/ui/core/ui/form_fields/basic_form_field.dart
 - Added prefixIcon, suffixIcon, prefixText, suffixText, and textAlign properties.
 - Defaulted to widget.border or an OutlineInputBorder from theme.
 - Unified icon logic to respect provided widgets over icons.

• lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart

- Integrated _barCodeController, category and subcategory text fields.
- Introduced ValueNotifier<SaleBy> to switch between unit/weight modes
- Added quantity increment/decrement and weight input logic.
- Wrapped action button in ListenableBuilder and replaced with BigButton.
- Disposed all controllers in dispose().

$\bullet \ lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view_model.dart\\$

- Injected ShoppingCartUserCase dependency.
- Defined save and update commands invoking user case methods.

• lib/ui/view/cart shopping/cart shopping view.dart

- Updated _addProductCart() to push nested route including shopping path and extra model.
- $\bullet \ lib/utils/validates/generic_validations.dart$
 - Added notZero validator to ensure numeric inputs are greater than zero.

pubspec.yaml

- Bumped go_router to ^16.0.0.
- Added mobile_scanner: ^7.0.1 dependency for barcode scanning.

New Files

- lib/domain/models/category/category_model.dart Defines the CategoryModel Freezed data class for product categories.
- lib/domain/models/sub_category/sub_category_model.dart
 Defines the SubCategoryModel Freezed data class, linking to CategoryModel.

Conclusion

With these changes, category management and the enhanced cart workflow—including sale modes, routing, and form improvements—are fully integrated and functional.

2025/07/01 last_price_repository-05 - by rudsonalves

Refactor cart dependencies and implement AddProductCart feature

This commit refactors dependency imports and the shopping cart flow to support a new "Add Product to Cart" feature. It standardizes import paths, replaces the cart items provider with ChangeNotifierProvider, and renames existing shopping views and view models to the cart-specific equivalents. A new screen and view model for adding products to the cart have also been added.

Modified Files

lib/config/dependencies.dart

- Switched relative imports to absolute imports for repository interfaces and implementations.
- Replaced Provider<ICartItemsRepository> with ChangeNotifierProvider<ICartItemsRepository>

lib/domain/enums/enums.dart

• Introduced a new SaleBy enum with two values (byUnit and byWeight) and associated labels.

lib/routing/router.dart

for cart items.

- Updated imports to include CartShoppingView, CartShoppingViewModel, AddProductCartView, and AddProductCartViewModel.
- Renamed the shopping route builder to return CartShoppingView with CartShoppingViewModel.
- Added a new GoRoute for the /add-product-cart path.

lib/routing/routes.dart

• Added a new addProductCart constant route.

lib/ui/view/cart_shopping/cart_shopping_view.dart

- Renamed ShoppingView to CartShoppingView.
- Updated constructor and state class names accordingly.
- Changed the floating action button's callback to navigate to the new addproduct-cart route.

lib/ui/view/cart_shopping/cart_shopping_view_model.dart

 Renamed ShoppingViewModel to CartShoppingViewModel and updated constructor to match the new class name.

New Files

lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view.dart Defines a stateful form view for adding a product to the cart, including fields for name, description, sale type, price, and quantity, plus a barcode scanner button placeholder.

lib/ui/view/cart_shopping/add_product_cart/add_product_cart_view_model.dart
Introduces an empty AddProductCartViewModel class as the view model for
the add-product-cart screen.

Conclusion

All cart-related dependencies and views have been updated, and the Add Product to Cart feature is now integrated and ready for further development.

2025/06/30 last_price_repository-04 - by rudsonalves

Rename item repository to cart repository and integrate shopping cart user case

This commit refactors the item repository into a cart-specific implementation with ChangeNotifier support, updates dependency injection and routing to use the new ShoppingCartUserCase, and enhances the edit and shopping views to handle both create and update workflows. The ShoppingModel default totalPrice is adjusted to 0, and the class diagram is updated to reflect the renamed components. UI and view models are wired to the new use case for a cohesive shopping cart flow.

Alterations

- docs/Diagrama_de_Classes.drawio
 - Update mxGraphModel dx and dy values for layout adjustment.
 - Rename diagram shapes: ItemsRepository \to CartItemsRepository and ShoppingUserCase \to ShoppingCartUserCase.
- lib/config/dependencies.dart
 - Replace imports of i_items_repository.dart/items_repository.dart
 with i_cart_items_repository.dart/cart_items_repository.dart.
 - Update provider registration to use ICartItemsRepository and CartItemsRepository.

- lib/data/repositories/items/cart_items_repository.dart (formerly items_repository.dart)
 - Rename class to CartItemsRepository, implement ICartItemsRepository, and mix in ChangeNotifier.
 - Add notifyListeners() calls after each mutation of _items.
 - Update constructor signature to CartItemsRepository.
- lib/data/repositories/items/i_cart_items_repository.dart (formerly i_items_repository.dart)
 - Rename abstract class to ICartItemsRepository extending ChangeNotifier.
- lib/data/repositories/shopping/shopping_repository.dart
 - $-\ {
 m Mix\ in\ ChangeNotifier\ on\ ShoppingRepository}.$
 - Import package:flutter/material.dart to support listener notifications.
- lib/domain/models/shopping/shopping_model.dart
 - Change totalPrice to use @Default(0) and remove required.
 - Provide default value 0 in the factory constructor.
- lib/routing/router.dart
 - Add imports for ICartItemsRepository, IProductsRepository, ILastPriceRepository, and ShoppingCartUserCase.
 - Modify EditShopping route builder to accept a ShoppingModel via state.extra.
 - Wire ShoppingCartUserCase into ShoppingViewModel builder for the shopping route.
- $\bullet \ lib/ui/view/home/edit_shopping/edit_shopping_view.dart$
 - Import ShoppingModel and add optional shopping parameter to EditShoppingView.
 - Introduce _isEditing flag and _initializeForm() to prefill fields when editing.
 - Adjust AppBar title, button label, and icon based on mode.
 - Listen to both saving and new update commands and execute update flow when editing.
- lib/ui/view/home/edit_shopping/edit_shopping_view_model.dart
 - Add update Command1<ShoppingModel, ShoppingModel> for record updates.
 - Implement _update() method calling shoppingRepository.update() and logging the result.
- lib/ui/view/home/home view.dart

- Rename _newShopping() to _addShopping() and update floatingActionButton.onPressed.
- Enable edit navigation by calling context.push(Routes.editShopping.path, extra: shopping) in _editShopping().
- lib/ui/view/home/shopping/shopping_view.dart
 - Add a FloatingActionButton placeholder for future cart actions.
 - Wrap body in ListenableBuilder listening to viewModel.cartNotifier to react to cart changes.
- lib/ui/view/home/shopping/shopping_view_model.dart
 - Implement ShoppingViewModel to depend on ShoppingCartUserCase.
 - Initialize load command to invoke userCase.load() and expose cartNotifier.

• lib/domain/user_cases/shopping_cart_user_case.dart Introduce ShoppingCartUserCase to coordinate initialization of product, cart items, and last price repositories for a given ShoppingModel.

Conclusion

The refactor is complete and the shopping cart flow is now fully functional.

2025/06/28 last_price_repository-03 - by rudsonalves Refactor Shopping flow to use IShoppingRepository and introduce edit route

This commit abstracts ShoppingRepository behind the IShoppingRepository interface, updates DI and routing to use the new interface type, and renames the "new shopping" feature into a unified edit flow with dedicated views and view models. Navigation paths and provider registrations now reflect the interface contract.

- lib/config/dependencies.dart
 - Imported IShoppingRepository and registered it with ChangeNotifierProvider<IShoppingRepository
 instead of concrete ShoppingRepository
- lib/data/repositories/shopping/i_shopping_repository.dart
 - Extended ChangeNotifier in IShoppingRepository to support UI listeners.
- lib/data/repositories/shopping/shopping_repository.dart

 Removed ChangeNotifier mixin and implements; now extends IShoppingRepository.

• lib/routing/router.dart

- Swapped ShoppingRepository references for IShoppingRepository in builders.
- Renamed newShopping route to editShopping and added a shopping detail route.
- Adjusted route imports and added ShoppingView entry.

• lib/routing/routes.dart

- Renamed new_shopping to editShopping (/edit-shopping) and added shopping (/shopping) path.

• lib/ui/view/home/home_view.dart

- Tweaked import order.
- Updated _newShopping to push editShopping route.
- Updated _openShopping to push new shopping route with extra model.

• lib/ui/view/home/home_view_model.dart

 Changed type of _shoppingRepository parameter from concrete to IShoppingRepository.

New Files

- lib/ui/view/home/edit_shopping/edit_shopping_view.dart Renamed and refactored from new_shopping.dart to handle both creation and editing flows.
- lib/ui/view/home/edit_shopping/edit_shopping_view_model.dart Renamed view model to EditShoppingViewModel matching the updated view.
- lib/ui/view/home/shopping/shopping_view.dart New detail screen displaying a single ShoppingModel.
- lib/ui/view/home/shopping/shopping_view_model.dart Placeholder view model for the new ShoppingView.

Conclusion

The shopping creation and editing flows now share a unified interface via IShoppingRepository, and routing has been updated to support both listing and detail views. The refactor aligns DI, routing, and UI layers under the new interface abstraction.

2025/06/28last_price_repository-02 - by rudsonalves Introduce DatabaseManager, DI updates, and refactor DatabaseService

This commit centralizes database initialization into a new DatabaseManager class, refactors DatabaseService to consume a managed Database instance, and updates dependency injection to provide the new manager and service. Repository providers and integration tests are adjusted accordingly.

Modified Files

- lib/config/dependencies.dart
 - Replaced direct DatabaseService.initialize with DatabaseManager and injected both manager and service.
 - Registered IProductsRepository, IItemsRepository, and ILastPriceRepository alongside existing ShoppingRepository.
- $\bullet \ lib/data/services/database/database_service.dart$
 - Removed internal initialization logic; now accepts a pre-initialized
 Database instance.
 - All _db references replaced with the injected _database field.
- $\bullet \ lib/data/services/database/tables/sql_tables.dart$
 - Added foreign key constraints to items and lastPrices tables for cascading deletes.
- $\bullet \ lib/domain/models/last_price/last_price_model.dart\\$
 - Corrected import order to prioritize DTO and helper imports after annotations.
- test/data/repositories/products/products_repository_test.dart
 - Switched to use DatabaseManager for setup and teardown instead of manual DatabaseService init/close.
- test/data/repositories/shopping/shopping repository test.dart
 - Updated to initialize DatabaseService via DatabaseManager and close manager in tearDown.

New Files

- lib/data/services/database/database_manager.dart Manages SQLite database lifecycle: creation, configuration (foreign keys), upgrades/downgrades, and closing.
- lib/data/services/database/tables/sql_configurations.dart Defines database name, version, and PRAGMA statements for configuration.

Conclusion

Database initialization is now unified under DatabaseManager, DI graph updated, and tests adapted—ensuring consistent database handling across the app.

2025/06/27 last_price_repository-01 - by rudsonalves Extend SQLite boolean handling and add LastPrice repository/tests

This commit refines SQLite integer-to-boolean conversion via a new SqliteHelpers utility, updates schema columns for is_unit_price fields, and integrates a full-featured LastPrice repository with corresponding interfaces and unit tests. Repository interfaces for items now include totalPrice(), and the shared Result class gains success/failure flags.

- docs/Diagrama_de_Classes.drawio
 - Updated internal diagram dimensions to match the latest class revisions.
- docs/images/Diagrama_de_Classes.png, docs/images/MVVM.png
 - Replaced with refreshed exports reflecting updated column and model changes.
- lib/data/repositories/items/i_items_repository.dart
 - Added totalPrice() signature to the items repository interface.
- lib/data/repositories/items/items_repository.dart
 - Implemented Coverride totalPrice() annotation for consistency.
- lib/data/services/database/tables/sql_tables.dart
 - Changed DDL default types for is_unit_price from BOOLEAN to INTEGER (0/1).
- lib/domain/dto/last_price/last_price_dto.dart
 - Introduced fromJson/toJson converters (SqliteHelpers) on isUnitPrice key.
- lib/domain/dto/product/product_dto.dart
 - Applied same integer-to-boolean converters to ProductDto.isUnitPrice.
- lib/domain/models/item/item_model.dart
 - Added JSON converters on ItemModel.isUnitPrice.
- lib/domain/models/last_price/last_price_model.dart

- Applied converters to LastPriceModel.isUnitPrice.
- lib/domain/models/product/product_model.dart
 - Integrated converters on ProductModel.isUnitPrice.
- lib/utils/result.dart
 - Introduced isSuccess and isFailure getters to simplify result checking.
- · pubspec.yaml
 - Added sqflite_common_ffi dependency for desktop testing and path_provider.

- lib/domain/models/sqlite_helpers.dart Utility class for converting between Dart bool and SQLite integer (0/1).
- lib/data/repositories/last_price/i_last_price_repository.dart Repository interface defining CRUD operations for last-price entries.
- lib/data/repositories/last_price/last_price_repository.dart Concrete implementation managing in-memory cache and database persistence of last-price records.
- test/data/repositories/products/products_repository_test.dart Integration tests for ProductsRepository using in-memory SQLite via sqflite_common_ffi.
- test/data/repositories/shopping/shopping_repository_test.dart Integration tests for ShoppingRepository with desktop SQLite support.

Conclusion

All changes for integer-based boolean handling and the new LastPrice feature are in place, and comprehensive tests confirm full functionality.

2025/06/27 structural_adjustments-01 - by rudsonalves Add last-price tracking and unit-price support across data models

This commit extends the shopping app's data model and persistence layer to support "last price" records and unify unit-based pricing. Schema definitions, repositories, DTOs, and domain models have been updated accordingly, and documentation (README and class diagrams) reflects these enhancements.

Modified Files

• README.md

- Expanded project description with MVVM architecture overview.
- Added class- and MVVM-diagram image references.
- Clarified three-layer structure (Data, Domain, UI) and main architectural branches.

• docs/Diagrama_de_Classes.drawio

- Adjusted mxGraphModel dimensions to match updated diagrams.
- $\bullet \ lib/data/repositories/items/items_repository.dart$
 - Renamed prince \rightarrow unitPrice field.
 - Updated totalPrice() to use unitPrice instead of legacy prince.

• lib/data/services/database/database_service.dart

- Included execution of lastPrices table and its index in batch setup.
- Added grouping comments for "Tables" and "Indexes".

• lib/data/services/database/tables/sql_tables.dart

- Added last_price table DDL and index.
- Introduced is_unit_price, unit_price, and created_at columns for items.
- Added is_unit_price flag to products.

• lib/domain/dto/product/product_dto.dart

 Added isUnitPrice boolean (default true) to ProductDto fields and factory.

New Files

- docs/images/Diagrama_de_Classes.png PNG export of the updated class diagram.
- docs/images/MVVM.png Visualization of the MVVM architecture branches.
- lib/domain/dto/last_price/last_price_dto.dart Freezed DTO for "last price" records, including productId, isUnitPrice, lastUnitPrice, and createdAt.
- lib/domain/models/last_price/last_price_model.dart Domain model for "last price" entries with factory constructors and JSON support.

Assets and Test Data

- Diagram Images
 - docs/images/Diagrama_de_Classes.png
 - docs/images/MVVM.png

Conclusion

All enhancements for last-price tracking and unit-based pricing are in place, and the application is now fully functional.

2025/06/27 home_view-test-01 - by rudsonalves

Update class diagram, dependency injection, repositories, DTOs, and UI enhancements

This commit refines the class diagram geometry, modernizes dependency registration to use ChangeNotifierProvider, enriches repositories with notification support, adds default values and nullability to DTOs, introduces rich UI interactions in the Home view (including swipe-to-edit/delete and a shopping list tile), embeds new enum icons, and extends the diagram with a LastPriceModel swimlane.

- docs/Diagrama de Classes.drawio
 - adjusted dx/dy values, swimlane geometries, and edge point arrays
 - highlighted ShoppingDto/ProductDto parameters in bold
 - added LastPriceModel swimlane with fields and repository edges
- lib/config/dependencies.dart
 - replaced dual Provider<IShoppingRepository> with a single ChangeNotifierProvider<ShoppingRepository>
 - commented out legacy interface provider
- lib/data/repositories/shopping/shopping_repository.dart
 - extended ShoppingRepository from ChangeNotifier
 - added notifyListeners() on insert, update, delete, and load
 - imported flutter/material.dart to support ChangeNotifier
- lib/domain/dto/shopping/shopping_dto.dart
 - moved totalPrice default into constructor, removed explicit required
- lib/domain/enums/enums.dart
 - added IconData iconData to ShoppingType enum entries
 - imported material_symbols_icons
- lib/routing/router.dart
 - reordered imports, read repository via ctx.read
 ShoppingRepository>()
 - aligned builder contexts (ctx vs context)
- lib/ui/view/home/home_view.dart

- wired HomeViewModel.delete listener for delete feedback
- wrapped body in ListenableBuilder showing loading, empty state, or ListView
- implemented swipe-to-edit and swipe-to-delete via Dismissible
- lib/ui/view/home/home_view_model.dart
 - switched from interface to ShoppingRepository dependency
 - initialized load immediately and added delete command
 - exposed shoppings and notifier from repository
- lib/ui/view/new_shoppint/new_shopping.dart
 - switched to ShoppingDto.create(...) factory
- lib/ui/view/new_shoppint/new_shopping_view_model.dart
 - removed artificial 2 s delay after save
- • $lib/domain/dto/shopping_dto.freezed.dart$ and .g.dart
 - no manual edits (regenerated by build runner)

• lib/ui/view/home/widgets/shopping_list_tile.dart Stateless widget displaying each shopping entry with leading icon, title, subtitle, formatted date, price label, and swipe actions for edit/delete.

Conclusion

All components are now reactive with provider notifications, DTOs are safer with defaults and nullability, and the UI supports robust list interactions—system is ready for further feature development.

2025/06/26 home view-04 - by rudsonalves

Add nullable timestamps, default values, NewShopping feature, and build runner command

These changes enhance data handling by making createdAt/updatedAt fields nullable and providing default values, streamline development with a new run_build_runner target, and introduce a complete "New Shopping" flow. UI components, routing, and theming adjustments ensure consistency and usability across the app.

- Makefile
 - appended a run_build_runner target to watch code generation

- docs/Diagrama_de_Classes.drawio
 - adjusted geometry coordinates and updated swimlane labels for consistency
- lib/config/dependencies.dart
 - removed duplicate IShoppingRepository provider registration
- lib/domain/dto/product/product_dto.dart
 - changed createdAt/updatedAt to nullable
- lib/domain/dto/product/product_dto.freezed.dart
 - updated copyWith and constructor signatures to accept nullable timestamps
- lib/domain/dto/product/product_dto.g.dart
 - added null checks when parsing/serializing JSON dates
- lib/domain/dto/shopping/shopping_dto.dart
 - introduced default totalPrice of 0 and made timestamps nullable
- lib/domain/dto/shopping/shopping_dto.freezed.dart
 - adjusted generated code for default value and nullable fields
- $\bullet \ lib/domain/dto/shopping/shopping_dto.g.dart$
 - support null JSON timestamps and default total_price
- $\bullet \ lib/domain/models/product/product_model.dart$
 - made createdAt/updatedAt nullable
- $\bullet \ lib/domain/models/product/product_model.freezed.dart\\$
 - updated generated code to handle nullable timestamps
- $\bullet \ lib/domain/models/product/product_model.g.dart$
 - added null checks in JSON parsing/serialization
- lib/domain/models/shopping/shopping_model.dart
 - made createdAt/updatedAt nullable
- lib/domain/models/shopping/shopping_model.freezed.dart
 - updated generated code for nullable timestamps
- lib/domain/models/shopping/shopping_model.g.dart
 - handle optional JSON date fields
- lib/routing/router.dart

- imported and registered NewShopping route
- lib/routing/routes.dart
 - added newShopping route constant
- lib/ui/core/themes/dimens.dart
 - increased spacingVertical from 12.0 to 18.0
- lib/ui/core/ui/buttons/big_button.dart
 - commented out unused colorScheme reference
- lib/ui/core/ui/form_fields/basic_form_field.dart
 - removed unused import and commented out default border logic
- lib/ui/core/ui/form_fields/enum_form_field.dart
 - introduced EnumFormLayout enum and added layout—dependent rendering (Wrap, Row)
- lib/ui/view/home/home_view.dart
 - simplified new-shopping action to use context.push with GoRouter

- lib/ui/view/new_shoppint/new_shopping.dart Provides the UI scaffolding and form for creating a new shopping entry, including validation and feedback.
- lib/ui/view/new_shoppint/new_shopping_view_model.dart Implements the view model for shopping creation, orchestrating repository calls and handling success/error logging.

Conclusion

All changes implemented successfully and the New Shopping feature is fully functional.

2025/06/26 home_view-03 - by rudsonalves

Add ItemsRepository and item table support; unify database APIs and adjust repository imports

Introduction

This commit introduces a new IItemsRepository interface and its ItemsRepository implementation to manage shopping items. The database service gains fetchByFilter, updateWhere, and deleteWhere methods; SQL table definitions now include an items table with appropriate columns and primary keys. Repository constructors are standardized to use a single

_dbService instance, and import ordering is aligned. Freezed annotation import is repositioned in the shopping model.

Modified Files

- lib/data/repositories/products/products_repository.dart
 - Renamed _databaseService to _dbService and updated constructor parameter.
 - Switched to insert<ProductDto> and fetchById/fetchAll/update/delete methods on _dbService.
- lib/data/repositories/shopping/shopping_repository.dart
 - Renamed _database to _dbService and updated constructor.
 - Standardized initialization to await fetchAll and handle success/failure cases.
 - Swapped to insert<ShoppingDto> and fetchById/fetchAll/update/delete on _dbService.
- lib/data/services/database/database_service.dart
 - Added fetchByFilter, updateWhere, and deleteWhere methods for filtered operations.
 - Adjusted fetchAll signature to accept nullable limit and offset.
 - Executed SqlTables.items creation during initialization.
- lib/data/services/database/tables/sql_tables.dart
 - Extended Tables constants with items.
 - Expanded SqlTables to define items table SQL (with composite primary key).
 - Replaced productShoppingIDIndex with productNameIndex for product name lookups.
 - Updated ShoppingColumns and ProductColumns to reflect renamed fields.
- lib/domain/models/shopping/shopping_model.dart
 - Moved freezed_annotation import above DTO import for consistency.

New Files

- lib/data/repositories/items/i_items_repository.dart Defines the IItemsRepository interface with CRUD and initialization methods for ItemModel.
- lib/data/repositories/items/items_repository.dart Implements IItemsRepository, managing an in-memory map of ItemModel instances and persisting via the enhanced DatabaseService.

Conclusion

With item support fully integrated and database operations unified, the data layer is now more robust and consistent. The system compiles and item management functions are ready for testing.

2025/06/26 home view-02 - by rudsonalves

Refactor repository structure to use DTOs, Freezed models, and absolute imports; enhance UI components and update linting

This commit restructures the data layer by introducing *Dto classes and migrating existing models to Freezed, streamlines repository interfaces and implementations, and standardizes import paths to absolute references. It also adds UI helpers (button signatures and bottom sheet dialogs), updates lint rules, and refines theme dimensions. The .gitignore and analysis options are adjusted, and a Draw.io class diagram is added under docs/.

- .gitignore
 - Added *.bkp pattern to exclude backup files.
- analysis_options.yaml
 - Ignored invalid annotation target analyzer error.
- lib/config/dependencies.dart
 - Switched to absolute imports for repository and service files.
- lib/data/repositories/products/i_products_repository.dart
 - Updated method signatures to accept ProductDto and removed shoppingId parameter.
- lib/data/repositories/products/products_repository.dart
 - Introduced _isInitialized flag, adapted insert, fetchAll, update, and delete to use DTO-to-model mapping and Freezed fromJson.
- lib/data/repositories/shopping/i shopping repository.dart
 - Changed insert to accept ShoppingDto.
- lib/data/repositories/shopping/shopping_repository.dart
 - Refactored insert, fetchAll, and update to use DTOs and Freezed mapping; adjusted default fetch limit.
- lib/main.dart, lib/main_app.dart, lib/routing/router.dart

- Converted all package imports to absolute (/...) paths.
- lib/ui/core/themes/dimens.dart
 - Increased spacingVertical from 6.0 to 12.0.
- lib/ui/core/ui/form_fields/basic_form_field.dart
 - Extracted border definition into a variable and reused in InputDecoration.
- lib/ui/view/home/home_view.dart
 - Imported new dialog and form-field widgets; added _newShopping method to show a bottom sheet for creating purchases.

- docs/Diagrama_de_Classes.drawio Draw.io class diagram illustrating the domain entities, DTOs, repositories, services, and view models.
- lib/domain/dto/product/product_dto.dart, .freezed.dart, .g.dart Defines ProductDto with factory constructors for creation and JSON serialization.
- lib/domain/dto/shopping/shopping_dto.dart, .freezed.dart, .g.dart Defines ShoppingDto analogously for shopping records.
- lib/domain/enums/enums.dart Introduces ShoppingType enum with localized labels.
- lib/domain/models/item/item_model.dart, .freezed.dart, .g.dart New ItemModel Freezed class with default quantity.
- lib/domain/models/product/product_model.dart, .freezed.dart, .g.dart Freezed-based ProductModel with fromDto and fromJson factories.
- lib/domain/models/shopping/shopping_model.dart, .freezed.dart, .g.dart Freezed-based ShoppingModel mirroring the DTO and domain logic.
- lib/ui/core/ui/buttons/button_signature.dart Generic ButtonSignature class to unify button definitions in dialogs.
- lib/ui/core/ui/dialogs/bottom_sheet_dialog.dart Reusable bottom sheet dialog widget accepting a title, body content, and button signatures.

Assets and Test Data

• Draw.io diagram under docs/Diagrama_de_Classes.drawio

Conclusion

All layers have been refactored to use DTOs and Freezed models with consistent import paths. New UI components and lint settings are in place, and the system builds and runs as expected.

2025/06/25 home view-01 - by rudsonalves

Add core theming, dimensions, fonts, and common UI components

This commit introduces a centralized design system and a suite of reusable UI components. It adds responsive dimension and font abstractions, integrates Google Fonts and Material Symbols, and provides commonly used widgets (buttons, dialogs, form fields, controllers, and utilities). The router import order is also cleaned up to align with provider conventions.

Modified Files

- lib/routing/router.dart
 - Moved provider import up to group with other package imports.
- · pubspec.yaml
 - Added material_symbols_icons: ^4.2815.1 and intl: ^0.20.2 dependencies for icons and date formatting.

New Files

- lib/ui/core/themes/dimens.dart Defines Dimens abstraction for mobile and desktop paddings, spacing, and border radii.
- lib/ui/core/themes/fonts.dart Declares FontsTheme and AppFontsStyle for responsive text styles using custom font families.
- lib/ui/core/themes/util.dart Adds createTextTheme() helper to merge Google Fonts into TextTheme.
- lib/ui/core/ui/buttons/big_button.dart Reusable large button with loading state and icon support.
- lib/ui/core/ui/buttons/icon_back_button.dart Standard back button using Material Symbols.
- lib/ui/core/ui/dialogs/app_snack_bar.dart Bottom snack bar helpers for success and error messages.
- lib/ui/core/ui/dialogs/botton_sheet_message.dart.dart Modal bottom sheet component with customizable content and actions.
- lib/ui/core/ui/dialogs/simple_dialog.dart Alert dialog wrapper with rich text support.
- lib/ui/core/ui/dismissibles/dismissible_card.dart Dismissible card widget for edit and delete actions.
- lib/ui/core/ui/dismissibles/dismissible_container.dart Styled background container for dismissible widgets.
- lib/ui/core/ui/editing_controllers/currency_editing_controller.dart
 Text controller that masks and parses currency input.
- lib/ui/core/ui/editing_controllers/masked_editing_controller.dart Generic mask controller for text fields.
- lib/ui/core/ui/form_fields/basic_form_field.dart Styled TextFormField wrapper with label, icons, and validation.

- lib/ui/core/ui/form_fields/date_form_field.dart Date picker form field with formatted input.
- lib/ui/core/ui/form_fields/enum_form_field.dart FormField implementation for selecting Enum values via toggle buttons.
- lib/ui/core/ui/form_fields/widgets/toggle_buttons_text.dart Helper widget for labeled toggle buttons with selection indicator.
- lib/ui/core/ui/texts/parse_rich_text.dart Parses markdown-like * and ** syntax in strings and prepends icons for list items.
- lib/utils/extensions/date_time_extensions.dart Date formatting and mapping extension methods.
- lib/utils/extensions/string_extentions.dart String helpers for digit extraction and date validation.
- lib/utils/validates/generic_validations.dart Common validation rules for names, numbers, dates, and phone numbers.

Conclusion

All new theming layers and UI building blocks are in place, providing a consistent and flexible foundation for the app's interface.

2025/06/25 home view - by rudsonalves

Update Android NDK, integrate shopping & products modules, and apply theming

This commit pins the Android NDK version, registers the shopping repository and adds the products repository interface and stub implementation. Dependency injection is updated to provide the new repositories. The app's theme system is introduced via MaterialTheme and a Google Fonts utility, and the main application and router are wired to use the shopping feature. Finally, build dependencies are aligned in pubspec.yaml.

- android/app/build.gradle.kts
 - Hardcoded ndkVersion to "27.0.12077973" instead of using flutter.ndkVersion.
- lib/config/dependencies.dart
 - Imported IShoppingRepository and ShoppingRepository.
 - Added provider for IShoppingRepository with ShoppingRepository(database).
- $\bullet \ lib/data/repositories/shopping_repository.dart$
 - Changed shoppingList getter to return an unmodifiable list.
 - Removed redundant duplicate initialization check in insert().

Adjusted default limit in fetchAll() from 9999 and passed it correctly to the database call.

• lib/data/services/database_database_service.dart

In initialize(), executed SqlTables.products and created indexes for productShoppingIDIndex and productBarCodeIndex.

$\bullet \ lib/data/services/database/tables/sql_tables.dart$

- Extended SQL schema: added shopping_id and description columns to products table.
- Added product ShoppingIDIndex and productBarCodeIndex definitions.

• lib/main_app.dart

- Imported theme and util modules.
- Initialized a brightness field and selected light/dark theme via MaterialTheme.

• lib/routing/router.dart

- Injected IShoppingRepository into HomeViewModel via context.read.

• lib/ui/view/home/home_view.dart

- Added elevation to the AppBar for visual depth.

• lib/ui/view/home/home_view_model.dart

 Updated HomeViewModel to accept IShoppingRepository, initialize with a CommandO, and expose shopping getter.

· pubspec.yaml

- Added google_fonts: ^6.2.1 dependency.

New Files

- lib/data/repositories/products/i_products_repository.dart Defines the IProductsRepository interface for product CRUD operations scoped to a shopping list.
- lib/data/repositories/products/products_repository.dart Provides a stub implementation of ProductsRepository with in-memory caching, initialize, insert, fetch, and fetchAll; update and delete methods marked TODO.
- lib/ui/core/themes/theme.dart Introduces MaterialTheme class with light and dark color schemes (multiple contrast levels) using Material 3 ColorScheme.
- lib/ui/core/themes/util.dart Adds createTextTheme() helper to combine Google Fonts for body and display text styles.

Conclusion

All updates are implemented successfully and the new shopping, products, and theming modules are fully wired and ready for further development.

2025/06/24 shopping_repository - by rudsonalves

Add Makefile, shopping repository, and enhance database service

This commit introduces a Makefile for streamlined development commands, implements a new shopping feature with repository interfaces and implementations, and augments the DatabaseService to support ordering, pagination, and extended SQL table definitions. These changes lay the groundwork for CRUD operations on a shopping list.

Modified Files

- lib/data/services/database/database_service.dart
 - Added optional orderBy, limit, and offset parameters to query methods.
 - Defaulted sortBy to 'created_at ASC' when no ordering is provided.
 - Passed orderBy, limit, and offset through to _db!.query.
- lib/data/services/database/tables/sql tables.dart
 - Renamed standalone SqlTables to include a shopping table constant
 - Added Tables.shopping and Tables.products to the table definitions.

New Files

- Makefile Defines common development tasks:
 - diff to stage and view pending changes.
 - push and push_branch to enforce branch protection on main/master.
 - rebuild for Flutter clean and fetch.
 - test_coverage and test_serial for running tests with coverage.
 - update_splash and update_launcher_icons to regenerate assets via CLI.
- lib/data/repositories/shopping/i_shopping_repository.dart Declares the IShoppingRepository interface for shopping list CRUD operations and initialization.
- lib/data/repositories/shopping/shopping_repository.dart Implements ShoppingRepository with in-memory caching, initialize logic,

and insert, fetch, fetchAll, update, and delete methods using DatabaseService.

Conclusion

All tasks are implemented and the shopping feature is fully integrated and ready for use.

AI-Ready

Sempre que solicitado criar texto de commits usar o prompt a seguir para sua criação:

Aja como um assistente técnico especializado em desenvolvimento de software. Você receberá um conjunto de mudanças em formato git diff de um projeto Flutter. Sua tarefa é gerar um conteúdo para o commit em en US, com a seguinte estrutura:

- **Título em nível 3** ###: Comece um título suncito em en_US para o commit (máximo de 80 caracteres).
- Um parágrafo introdutório em en_US explicando, de forma clara e objetiva, o propósito geral das alterações (em até 4 linhas).
- Seção "Modified Files" em nível 3 ###: Liste todos os arquivos modificados, um por um. Para cada arquivo faça:
 - gere uma sub-lista com descrição clara das mudanças realizadas nesse arquivo.
- Seção "New Files" em nível 3 ###: (se aplicável) Liste todos os arquivos novos, com uma breve descrição da sua função no projeto.
- Seção "Assets and Test Data" em nível 3 ###: (se aplicável) Liste imagens, arquivos JSON, ou dados de exemplo adicionados.
- Seção "Conclusions" em nível 3 ###: Finalize com uma frase curta indicando que as alterações estão completas e o sistema está funcional.

Regras: - Ignore arquivos auto-gerados (*.g.dart, backups, pubspec.lock, etc). - Escreva todo o conteúdo do commit em en_US, com estilo técnico, objetivo e limpo. - Seja preciso com nomes de arquivos e diretórios. - Não use emoji.