



Marapp, Flutter App

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Enrico Pezzano

Product Manager

4825087

enriicola@proton.me

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Overview

Marapp is a Flutter app for a concept e-commerce for my mom (from this moment onward defined as “the client”). It is designed to enable on-the-go ordering of homemade sweets produced by the client’s artisanal bakery. It will serve as a mobile storefront, integrating secure authentication, product browsing, shopping cart functionality, and payment processing. Inspired by standard PMP structures used in manufacturing projects like the ones we have seen during lectures , this plan adapts those frameworks to a software delivery context.

Stakeholders

Project Manager: Enrico Pezzano

Development team

End-user

Objectives

- Develop a user-friendly mobile application similar to the JustEat mobile application.
- Allow users to sign up and log in using their existing Google or Facebook credentials.
- Enable users to access their order details history.
- Cross-platform Flutter app (iOS & Android)
- Product catalog with search, filters and detailed views
- Shopping cart, order placement and payment processing

- Order-history dashboard and push notifications
- Admin panel for order management and status updates
- Desktop/web versions (Windows, MacOS, Linux, Web)
- In-app messaging between buyers and sellers
- Loyalty/rewards program in initial release

Deliverables

- **Mobile App:** Fully functional Flutter application with all user-facing features.
- **Backend Services:** RESTful APIs, database schemas, and authentication modules.
- **Admin Module:** Simple web interface for sellers to track and fulfill orders.
- **Documentation & Training:** End-user guide, API documentation, and training session for the seller community.

Precondition

The app will rely on the availability of the client to be contacted (or to contact) by classical means of communications by user for every type of emergency or custom order specification.

Inputs

The inputs for the Marapp Flutter App software project include:

- **User requirements:** Detailed specifications and expectations from my mom, and administrators regarding the functionalities and features of the application.
- **Existing data:** Access to any existing cook recipes book or other relevant information that needs to be migrated to e-commerce.
- **Design guidelines:** Any existing guidelines or design preferences that need to be considered during the development of the user interface.

Outputs

The outputs for the Marapp Flutter App software project include:

- Fully functional web **and** native application: A robust and user-friendly flutter application that meets the defined requirements and provides the desired functionalities.
- **Firebase integration:** Integration with a database system to store and retrieve clients records, orders details, and other relevant information.

- **User documentation:** Comprehensive documentation that outlines the features, functionality, and usage guidelines of the Flutter application.
- **Training materials:** Training resources, such as user guides or video tutorials, to assist the client (my mom) in effectively using the Flutter application.

Parameters

The parameters for the Marapp Flutter App software project include:

- **Scope:** Defining the boundaries of the project, including the specific functionalities and features that will be included in the initial release (MVP).
- **Timeline:** Establishing a project timeline that includes milestones, deliverables, and deadlines for each phase of the development process.
- **Budget:** Determining the financial resources available for the project, including costs associated with development, infrastructure, and maintenance.
- **Team:** Identifying the roles and responsibilities of the project team members, including developers, designers, testers, and project managers.

Scale factor

The scale factor for the Marapp Flutter App software project refers to the magnitude of the project in terms of its size and complexity. Factors that influence the scale of the project may include the number of users, the volume of data to be managed, the integration requirements with other systems, and the expected growth or scalability of the application over time.

Project risks

- **API Rate Limits:** May throttle login or payment calls—mitigation: caching tokens, retry logic.
- **Payment Gateway Downtime:** Could block order flow—mitigation: failover to backup provider.
- **Scope Creep:** New feature requests—mitigation: strict change-control process.

Conclusions

By addressing the topics mentioned above in the charter, the Marapp Flutter App software project will have a clear and defined direction, ensuring that all stakeholders understand the objectives, inputs, outputs, historical variables, parameters, and scale factors associated with the project.