

Mahmoud Younes

Flutter Developer

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EDUCATION

Bachelor's Degree in Computer Science and Information Systems

- Graduation Project: exam-zone App — Grade:B

10/2021 – 07/2025

Zagazig University

SKILLS

Programming Languages: Dart, Asynchronous Programming, Data Structures, Algorithms, Problem Solving

Flutter Development: Bloc, Tensor Flow ai (make model ai vision and work in app without internet), UI Development, Responsive and Adaptive UI, Firebase, Subabase, Hive, Sqflite, Shared Preferences, Maps, ML Model, Pagination, RESTful API, Graph API

Development Practices: Clean Code, OOP, SOLID

Methodologies: MVVM, Clean Architecture

Tools: GitHub, Version Control Systems (git), Android Studio, VS Code, Figma, Adobe XD, Postman

PROJECTS

exam-zone

- **Description:** Developed an educational application using Flutter with the primary goal of significantly reducing the time required for teachers to create and correct exams. The app leverages the DeepSeek API to generate both essay and multiple-choice questions and provides automated grading capabilities. It also features a dedicated account system for both teachers and students, creating an organized and efficient platform for educational management.
- **Tech Stack:** Flutter, Dart, firebase storage , firebase auth , deepseek api
- [GitHub Repository](<https://github.com/sayodaa/exam-zone>)

tourism

• **Description:** Developed an innovative mobile application for historical artifact recognition, powered by a custom-trained YOLOv8 AI model. The model was trained to classify and analyze 15 distinct types of artifacts, achieving a high accuracy of 96.5% (mAP@50). To ensure seamless functionality without an internet connection, the model was optimized and converted to TFLite. The application provides users with detailed, fixed information and a confidence score for each artifact, featuring advanced multi-object recognition capabilities to identify several artifacts within a single image..

- **Tech Stack:** Flutter, Dart, yolov8, TensorFlow Lite,ai
- [GitHub Repository](https://github.com/Mahmoud-Younes/photo_analysis)

store app

(Udemy Project)

- Tech stack: **Flutter/Dart** with **Clean Architecture** (presentation/domain/data) & repository pattern.
- **BLoC** for state management; **Freezed** for immutable models & sealed unions; **Equatable** for value equality.
- **GraphQL** integration (typed queries/mutations, pagination, unified error handling) via a GraphQL client.
- Code generation & JSON mapping with **build_runner/json_serializable**; strongly-typed DTOs.
- Dependency inversion and feature-first modularization for scalability & testability.
- Responsive UI, form validation, and error/reporting flows consistent across Android/iOS.
- Unit/widget tests and project-wide **lints** to enforce code quality.
- Environment/flavor configs (dev/prod) and reusable UI components for maintainable delivery.

LANGUAGES

Arabic

Native

English

Conversational

CERTIFICATES

- Flutter Store App GraphQL,Bloc, Freezed & Clean Architecture
- The Complete 2022 Flutter & Dart Development Course
- Flutter Payment Integration: Stripe, PayPal & More!