

Project Plan

1. Brief about the idea

A data-driven analysis project that compares real estate investment opportunities in the New Administrative Capital versus New Cairo . It provides investors and developers with a clear dashboard to visualize price trends, infrastructure quality, and future growth potential.

2. What's the problem we are solving?

Investors face "Information Overload" and conflicting marketing claims. There is a lack of an objective, data-backed tool to measure the real Return on Investment while considering economic factors like inflation and currency devaluation.

3. What are the objectives the project is aiming for?

1. Analyze historical price data to predict future trends.
2. Identify which district offers better value for money in terms of smart services.
3. Provide a decision-support dashboard for real estate stakeholders.

4. Timeline, Milestones, and Deliverables

Week 1: Data Sourcing & Cleaning (Clean Dataset).

Week 2: Exploratory Data Analysis & Economic Correlation (Key Insights).

Week 3: Dashboard Design & Visualization (Deliverable: Interactive Power BI Dashboard).

Week 4: Final Presentation.

5. Member Roles

*** Ahmed (Team Leader):** Oversees the timeline, coordinates between members, and manages the final pitch.

Sara : Responsible for Data Cleaning and handling missing values in the dataset.

Nour : Collects data on inflation, currency rates, and their impact on property prices.

Furqan : Designs the Power BI Dashboard and creates interactive charts.

Marwa : Collects raw data from official sources (ACUD, CAPMAS) and ensures data accuracy and documentation.

6. Identifying Risks and Solutions

Risk: Inconsistent or missing data

Solution: Using "Data Imputation" techniques based on district averages and relying on official government reports for validation.

7. The Information that inspired us

The rapid shift towards "Smart Cities" in Egypt and the massive price gap between traditional districts and new digital hubs .

8. Do we have a data set?

Yes, we are building a custom dataset by scraping real estate portals and integrating it with economic indicators from Kaggle and other sites .

9. Success KPIs

1. Data Accuracy (90%+).
2. User-friendly Dashboard navigation.
3. Providing at least 3 actionable investment recommendations.