



Tour Guid App
to TRAVELING
IN
World

1. Project Planning

1.1 Project Overview:

The Tour Guide App is a mobile application designed to help users discover nearby historical and recreational tourist attractions.

The app provides location-based recommendations, maps navigation, and allows users to create and manage a personalized visit list.

1.2 Project Scope:

- Integrating external APIs to retrieve tourist attraction data.
- Displaying attractions on an interactive map.
- GPS-based notifications when users approach a tourist spot.
- Creating and managing a personal “Visit List.”
- User-friendly UI to browse, search, and save places.

1.3 Objectives:

- Provide accurate and up-to-date information using APIs.
- Enhance tourism experience through location-based alerts.
- Allow users to plan their visits efficiently.
- Improve discoverability of tourist places.

1.4 Assumptions:

- Users have active internet and GPS.
- API responses are available and reliable.
- Mobile device supports push notifications.

1.5 Constraints:

- Battery consumption due to continuous location tracking.
- Limited offline functionality.

1.6 Project Deliverables:

- UI/UX design mock-ups.
 - Functional mobile application (Android/iOS).
 - Documentation (SRS + Planning + Stakeholder Analysis).
 - Test cases and results.
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2. Stakeholders Analysis

2.1 Stakeholders List:

Stakeholder	Role	Interests	Influence
End Users	People using the app	Easy navigation, accurate data, notifications	High
Developers	Build the app	Clear requirements, stable API	Medium
Project Manager	Oversees development	On-time delivery, smooth workflow	High
Tourism Authorities	Provide official data	Promote tourism	Medium
UI/UX Designers	Design app screens	Simple and attractive experience	Medium

2.2 Stakeholder Analysis Details:

→ End Users

- **Needs:** Quick access to places, map navigation, save list.
- **Impact:** Their feedback shapes UI and features.

→ Developers

- **Needs:** Clear API documentation, stable requirements.
- **Impact:** Control app performance and stability.

→ Tourism Authorities

- **Needs:** Increased visits to local attractions.
- **Impact:** May provide additional data or require standards.

3. Database Design

3.1 Database Tables

USER TABLE			
Attribute Name	Data Type	Key	Description
UserID	INT	PK	Unique User ID.
Username	VARCHAR(50)	UNIQUE	For easy login and display.
Email	VARCHAR(100)	UNIQUE	User's email (for contact/security).

ATTRACTION TABLE			
AttractionID	INT	PK	Unique Attraction ID.
Name	VARCHAR(255)	NOT NULL	Name of the tourist spot.
Latitude	DECIMAL(10, 8)	NOT NULL	GPS latitude (for map navigation).
Longitude	DECIMAL(11, 8)	NOT NULL	GPS longitude (for map navigation).
Description	TEXT		Brief overview of the place.
API_Ref_ID	VARCHAR(50)	UNIQUE	The unique ID from the external API.

LIST TABLE			
ListID	INT	PK	Unique entry ID.
UserID	INT	FK (User)	The user who saved this item.
AttractionID	INT	FK (Attraction)	The attraction the user saved.
Date_Added	DATETIME	NOT NULL	When the user saved the item.

3.2 Database Relations

- User to Visit_List (1:M)
A single User can create many entries in the Visit_List table (i.e., they can save many different attractions).
An entry in the Visit_List table belongs to only one User.
- Attraction to Visit_List (1:M)
Single Attraction can appear in many different users' Visit_List tables (i.e., many users can save the same attraction).
An entry in the Visit_List table links to only one Attraction
- User to Attraction (M:N)
Many Users can save many Attractions.

4. UI Prototype



Wander Guide

Sign up to Explore the World.

 Email

 Password

 Confirm Password

[Register](#)



Wander Guide

Sign in to Explore the World.

 Email Address

 Password

[LOG IN](#)

New User? [Register Here](#)

Nearby Attractions



كوم الشفافة

Catacombs of Kom el Shoqafa, Amr Ibn Al Aas Street, Al Qabbari, Alexandria, 21572, Egypt
access_limited



عمود السواري والحدائق

الآثرية
Archaeological Park & Pompey's Pillar, Karmoz Street, Alexandria, 21559, Egypt
tourism



قلعة قايتباي

Citadel of Qaitbay, Qaitbay Citadel Street, Alexandria, 21556, Egypt
tourism



Chatby Necropolis

Chatby Necropolis, Port Qaid Street, Alexandria, 21524, Egypt
tourism



سور الإسكندرية القديم

Ancient Town Wall of Alexandria, Al Shahid Salah Moustafa Street, Alexandria, 21607, Egypt
tourism



Visit Later

Visit scheduled for 2025-12-03



Rating: ★★★★☆

Mahatet Zi Raml, Al Iskandar Al Akbar Street, Alexandria, 21521, Egypt

محطة الرمل



Rating: ★★★★☆

Mahatet Zi Raml, Al Iskandar Al Akbar Street, Alexandria, 21521, Egypt

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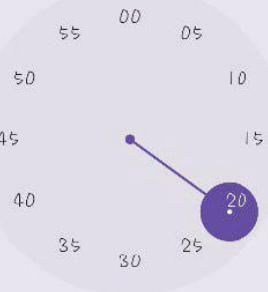
Visit Later

محطة الرمل

Select time

12 : 21

AM
PM



Cancel

OK

Saved Places

Favorites

Visit Later

طلعت حرب

Talaat Harb Street, Bab al Luq, Cairo, 11556, Egypt
Not Scheduled



قصر السكاكيني

Sakakini Palace, Al Sakakini Square, Cairo, 11674, Egypt
Not Scheduled



القاهرة القبطية

Coptic Cairo, Qaka Hadic Helwan Street, Masr Al-Qadima, Cairo, 11182, Egypt
Not Scheduled

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