ALI_PS_LANDS APP PROJECT

Land Auction APP: (in a week, agreed 100\$)

Users & Roles

1. Trader (تاجر)

- · Can add new lands.
- Can view land auctions.

2. Browser 1 (متصفح1)

- Can place bids on land auctions.
- Can see auction details but with limited description (30 characters).
- Receives notifications when an auction ends.

3. **Admin (ادمن)**

- Approves or rejects submitted land auctions.
- Updates land details with coordinates (Lat, Long).
- Uploads related JSON files for basins and lands.
- Manages databases for users, lands, basins, and auctions.

4. Browser 2 (مصفتح2)

Can see all land details except the owner's name and phone number.

Auction & Land Details

Land Details

- Basin Name (اسم الحوض)
- Neighborhood Name (اسم الحي)
- Location: Either "طمون or "ترسمعيا"

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- Price Before Settlement
- Price After Settlement (in Jordanian Dinars)
- Owner's Name & Phone Number (hidden for certain users)
- Navigation Button to related parcel in the corresponding basin

Auction Details

- Starting Bidding Price: Defined by the trader.
- Bid Count: Number of bids placed by Browser 1.
- View Count: Increments each time a land details page is viewed.

Database Structure

1. Users Database

Stores trader, admin, and browser details.

2. Lands Database

• Stores all land details, including location, pricing, and ownership.

3. Basins Database

- Contains basin details such as basin name, site location, and basin number.
- Each basin can have multiple related lands.
- A single land must belong to only one basin.

4. Auction Database

• Stores auction details, bids, views, and winning users.

API Endpoints

- 1. **Fetching Lands**: Retrieves lands submitted by traders.
- 2. **Fetching Auctions for Browser 1**: Shows auctions where Browser 1 has placed bids.

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3. Auction End Notifications:

- Notify the trader when the auction ends.
- Notify Browser 1 if they won the auction.

Mapping & JSON Files

- JSON Data File for Coordinates
 - Two types of polygons:
 - 1. Basins
 - 2. Parcels
- Current Implementation
 - One basin with around 8 parcels.

Process Flow

1. Trader Submits a Land Auction

Enters land details and submits for approval.

2. Admin Reviews and Approves/Rejects

- If approved:
 - Updates land auction with coordinates (Lat, Long) in the database.
 - Uploads the relevant basin JSON file.
 - Uploads and updates the corresponding land JSON file.
 - Updates the Lands Database with JSON data.
- If rejected:
 - Notifies the trader.

3. Browser 1 Places Bids

· Can submit bids on active auctions.

· Receives notifications when outbid.

4. Notifications System

- Browser 1 and traders receive real-time notifications.
- At the end of the auction:
 - The winning user is notified.
 - The trader is notified.
 - Auction details are updated.

JSON Files of Lands, Basins Schema

- Create a Basins Database to be managed by the admin.
- Link Lands Database with Basins Database for structured mapping.
- Ensure Lands Belong to Only One Basin to maintain consistency.
- Enhance JSON File Handling
 - Each basin should have its own JSON file.
 - Lands within a basin should be stored in the related JSON file.

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