

UI/UX Redesign Presentation

Egypt's Trains

Mobile Application

Team members

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Introduction

Egypt's Trains is a mobile app to search train trips across Egyptian cities.

Our goal was to redesign it using HCI principles to make it easier and more enjoyable to use.



Egypt's Trains

Project Goals

- Improve usability and clarity
- Reduce user effort and cognitive load
- Create a smooth and intuitive search flow
- Enhance the overall user experience

Old Design Problems

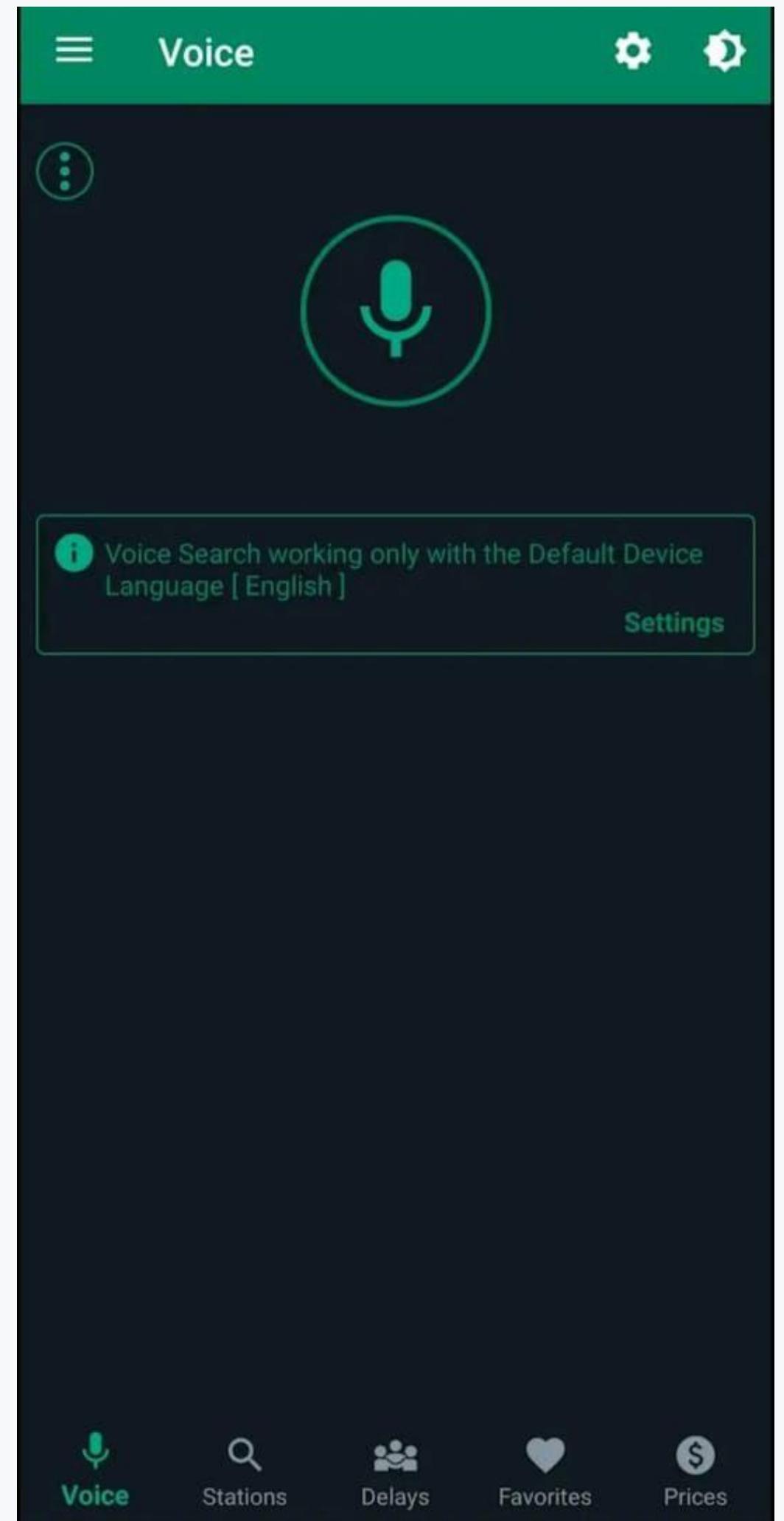
Overview of Design Issues

- Overcrowded layout makes the interface hard to use
- Poor color contrast reduces text and content visibility
- Inconsistent icons cause confusion
- Navigation is unclear and difficult to follow
- Important elements are not visually clear
- Weak visual hierarchy

Old Design

Problems of the voice Page

- No home screen, the app opens directly on the Voice page
- No clear instructions on how to use voice search
- Weak visual hierarchy, important elements are not highlighted
- The purpose of the page is not clear to users
- Poor color contrast makes text hard to read
- Large empty space with no useful content



New Design

The image displays three screenshots of the Egypt's Trains mobile application, illustrating a user interface redesign.

Screenshot 1: Onboarding / Welcome Screen

This screen shows a large teal circular button with a microphone icon, labeled "Tap & Speak Your Destination". Below it is a smaller teal button labeled "Type your journey". Above the circular button, the text "Welcome to Egypt's Trains!" is displayed, followed by a small train icon. At the bottom of the screen, there is a promotional banner for "20% OFF Evening Journeys" with the text "Limited offer • Ends tomorrow" and a "Explore Offers →" button. The top navigation bar includes the app logo "Egypt's Trains" and user profile icons.

Screenshot 2: Voice Search Integration

This screen is similar to the first but includes a dark overlay with a microphone icon and the text "Try Voice Search!". It also features a "Skip" button and a "Try Voice" button. The bottom promotional banner and navigation bar are identical to the first screenshot.

Screenshot 3: Advanced Voice Search Examples

This screen shows a list of voice command examples: "Book a ticket to Alexandria", "Show trains from Cairo to Aswan tomorrow", "Cheapest trains to Luxor", and "Next train to Alexandria". It also includes a "Try saying..." button and the same promotional banner and navigation bar as the previous screens.

Bottom Navigation Bar

The navigation bar at the bottom of each screen includes five icons: Home (blue house), Search (magnifying glass), Favorites (star), Delays (clock), and Prices (dollar sign).

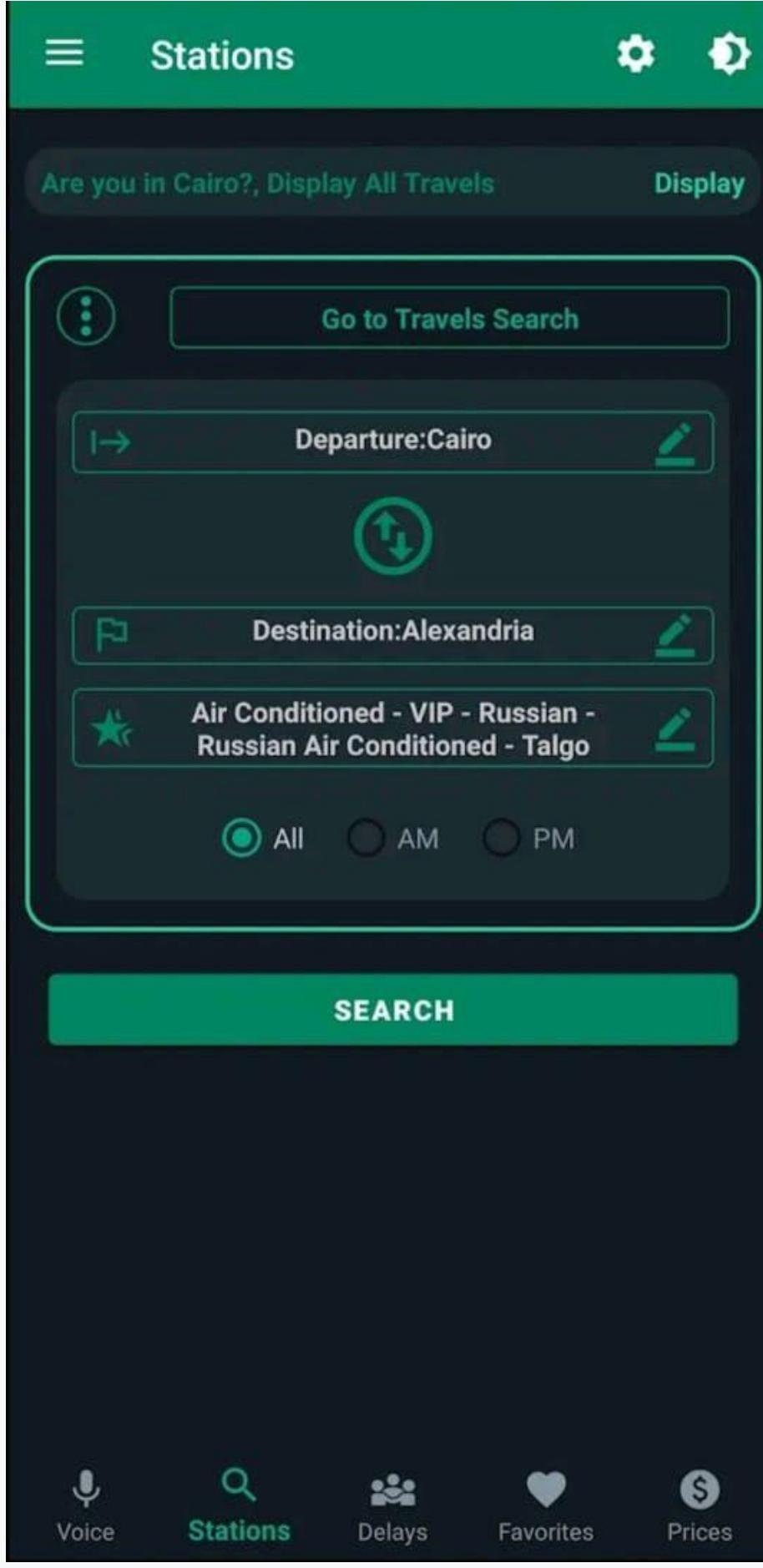
New Design

Key Improvements

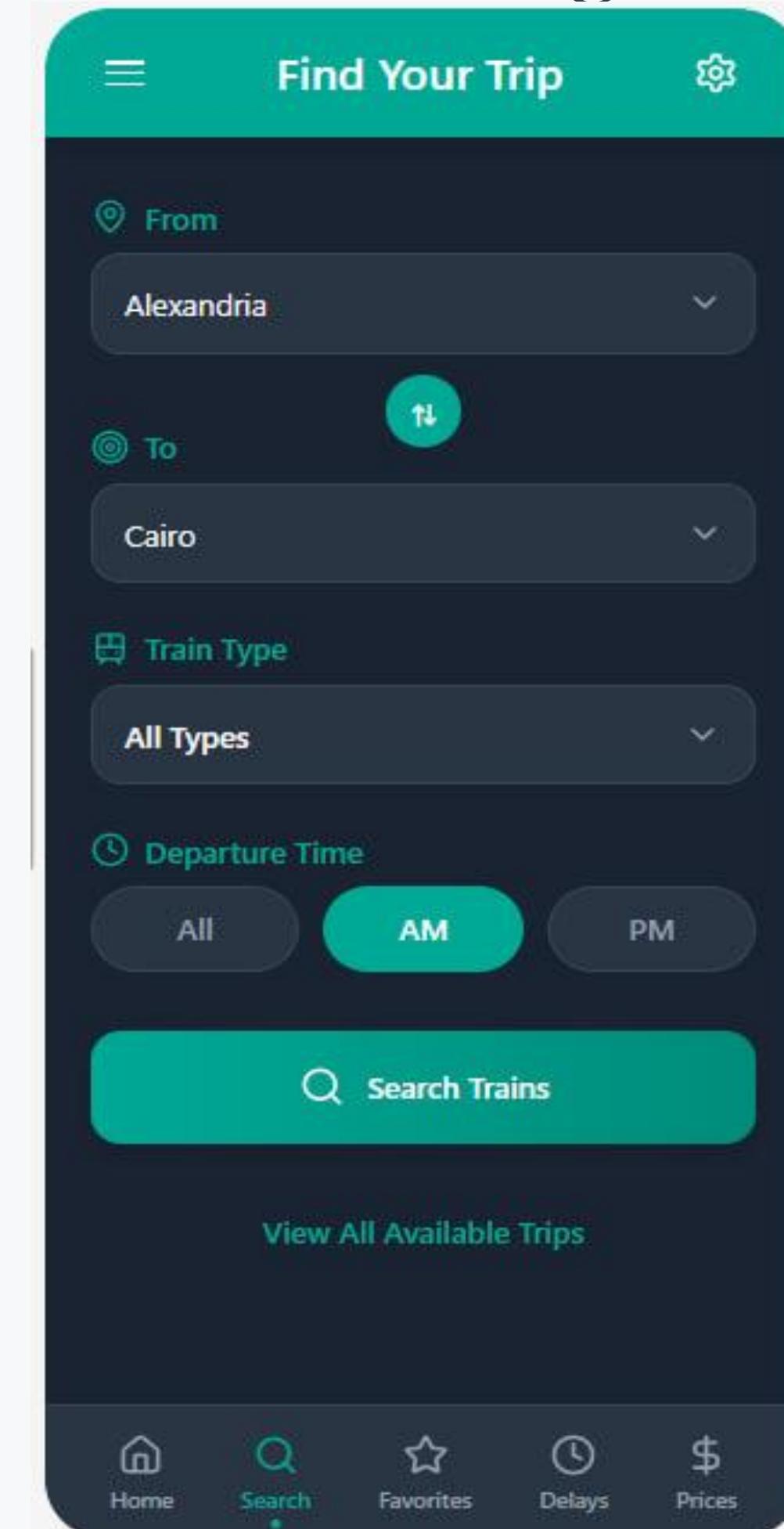
- Much Better User Experience
- Home screen helps users know where to start
- Easy to understand and use
- Using comfortable colors that relax the eyes and guide users' attention to key actions.
- Clean layout with clear focus on microphone/speech
- Option to use voice or type the destination
- Navigation is consistent across screens



Old Design



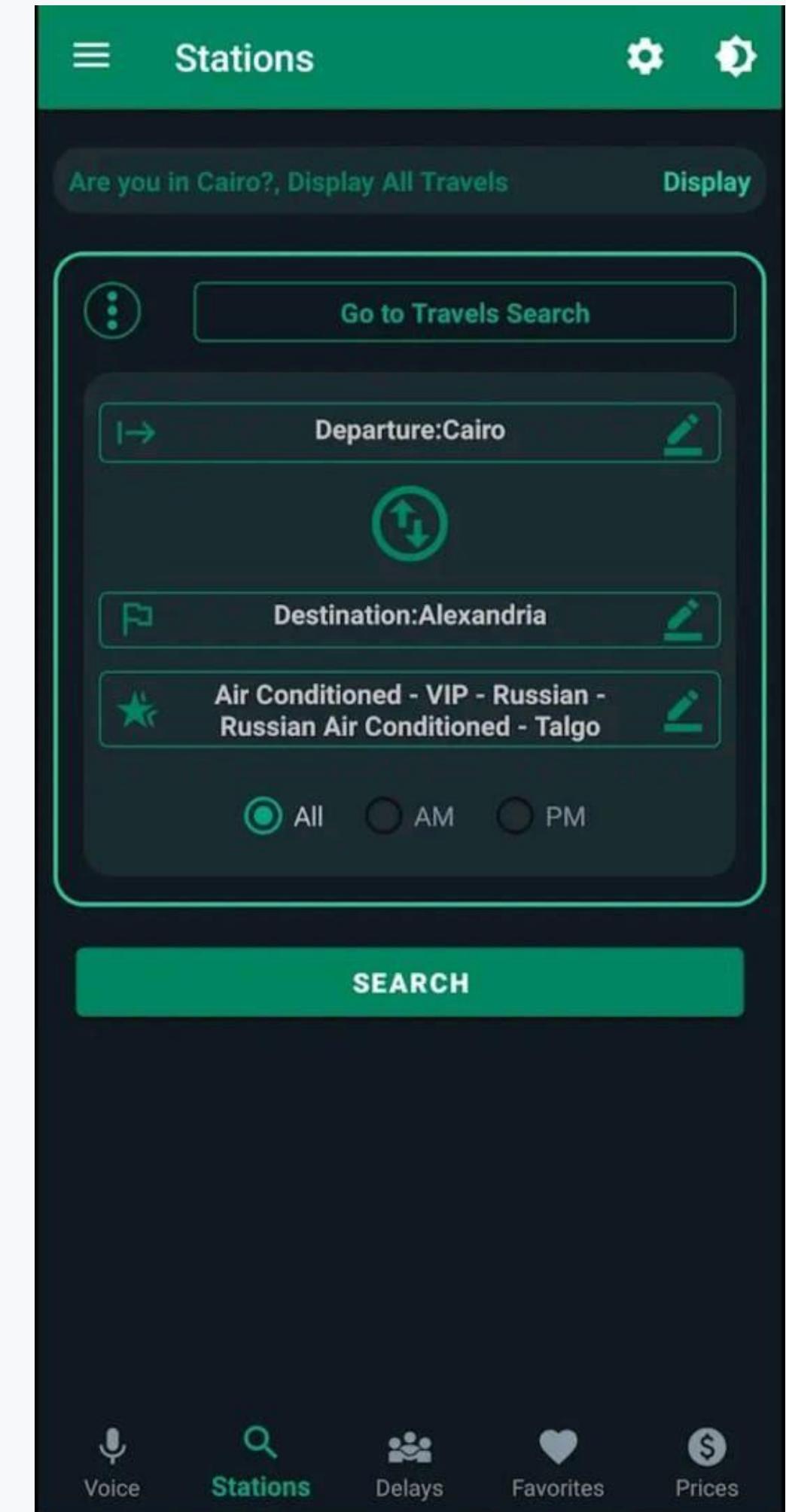
New Design



Old Design

Problems of the stations page

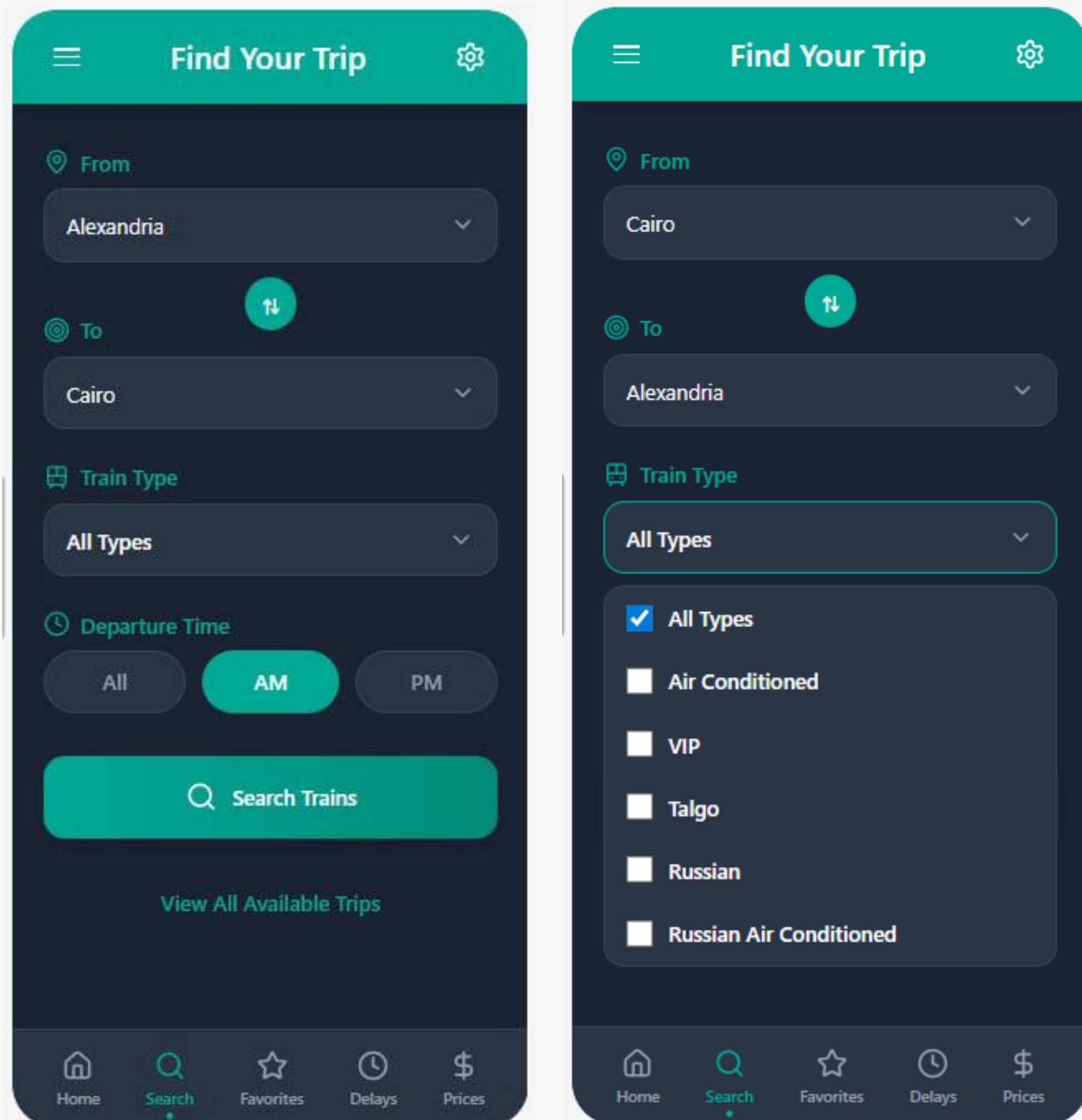
- **Visual Overload:** Too many borders, glowing effects, and heavy shadows.
- **Weak Visual Hierarchy:** Important actions (Search, Departure, Destination) were not clearly prioritized.
- **The screen name doesn't reflect its actual functionality**
- **Complex Layout**
- **Inconsistent Components:** Icons, buttons, and input fields lacked consistency.
- **Poor Readability:** Dark background combined with neon colors reduced text clarity.



New Design

Key Improvements

- Much better user experience
- Layout is clean and organized
- Users don't have to think too much
- Interactions are simple and user-friendly
- Primary actions are easy to find
- The search button is more clearly visible.
- Better spacing and alignment enhance readability.



Old Design

← Search Results ⚙️ ⚙️

Display Prices Of All Travels Display

Luxor-Qena / VIP - Russian - Russian + Air Conditioned (18) Info

Last Version 17-06-2023

| Travel | Class | From Luxor | To Qena | Direction |
|--------|---------|------------|---------|------------------|
| 833 | Russian | 03:55 | 05:00 | Aswan-Cairo |
| 159 | Russian | 06:00 | 07:05 | Luxor-Cairo |
| 157 | Russian | 07:30 | 08:35 | Luxor-Alexandria |
| 975 | Russian | 08:00 | 09:00 | Luxor-Cairo |
| 81 | Russian | 08:15 | 09:45 | Aswan-Cairo |
| 981 | VIP | 09:10 | 10:15 | Aswan-Cairo |
| 935 | VIP | 12:40 | 13:35 | Luxor-Alexandria |
| 163 | Russian | 16:25 | 17:30 | Aswan-Alexandria |
| 1013 | Russian | 17:10 | 18:05 | Aswan-Cairo |

Voice Stations Delays Favorites Prices

New Design

☰ Search Results ⚙️

Available Trips Back to Search

5 trips found

T-101 150 EGP 12 seats
VIP 08:00 AM 10:30 AM Cairo Alexandria 2h 30m Book Now

T-203 100 EGP 25 seats
Air Conditioned 10:15 AM 12:45 PM Cairo Alexandria 2h 30m Book Now

T-305 180 EGP 8 seats
Talgo 02:00 PM 04:30 PM Cairo Alexandria 2h 30m Book Now

T-509 150 EGP 6 seats
VIP 07:00 PM 09:30 PM Cairo Alexandria 2h 30m Book Now

Home Search Favorites Delays Prices

☰ Search Results ⚙️

Available Trips Back to Search

3 trips found

T-305 180 EGP 8 seats
Talgo 02:00 PM 04:30 PM Cairo Alexandria 2h 30m Book Now

T-407 120 EGP 18 seats
Russian Air Conditioned 04:30 PM 07:00 PM Cairo Alexandria 2h 30m Book Now

T-509 150 EGP 6 seats
VIP 07:00 PM 09:30 PM Cairo Alexandria 2h 30m Book Now

Home Search Favorites Delays Prices

Old Design

Problems

- Too much information: Hard for users to find what they need.
- Important info not clear: Time and class are not easy to see.
- Hard to read: Small text and dark background tire the eyes.
- Actions are hidden: Users can't find buttons easily.
- Too much thinking needed: Users must check many columns to decide.

The screenshot shows a mobile application interface titled "Search Results". At the top, there is a green header bar with a back arrow, the title "Search Results", and two settings icons. Below the header is a button labeled "Display Prices Of All Travels" with a "Display" button next to it. The main content area displays a list of travel routes. At the top of this list, there is a header row with columns: "Travel", "Class", "From Luxor", "To Qena", and "Direction". Below this header, there are several data rows, each representing a different travel route. Each row contains five pieces of information: Travel ID (e.g., 833, 159, 157, 975, 81, 981, 935, 163, 1013), Class (e.g., Russian, VIP), Departure Time (e.g., 03:55, 06:00, 07:30, 08:00, 08:15, 09:10, 12:40, 16:25, 17:10), Arrival Time (e.g., 05:00, 07:05, 08:35, 09:00, 09:45, 10:15, 13:35, 17:30, 18:05), and Destination (e.g., Aswan-Cairo, Luxor-Cairo, Luxor-Alexandria, Luxor-Cairo, Aswan-Cairo, Aswan-Cairo, Luxor-Alexandria, Aswan-Alexandria, Aswan-Cairo). Each row also has a vertical ellipsis icon on the far right. At the bottom of the screen, there is a navigation bar with five items: "Voice", "Stations" (which is highlighted in green), "Delays", "Favorites", and "Prices".

| Travel | Class | From Luxor | To Qena | Direction |
|--------|---------|------------|---------|------------------|
| 833 | Russian | 03:55 | 05:00 | Aswan-Cairo |
| 159 | Russian | 06:00 | 07:05 | Luxor-Cairo |
| 157 | Russian | 07:30 | 08:35 | Luxor-Alexandria |
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New Design

Key Improvements

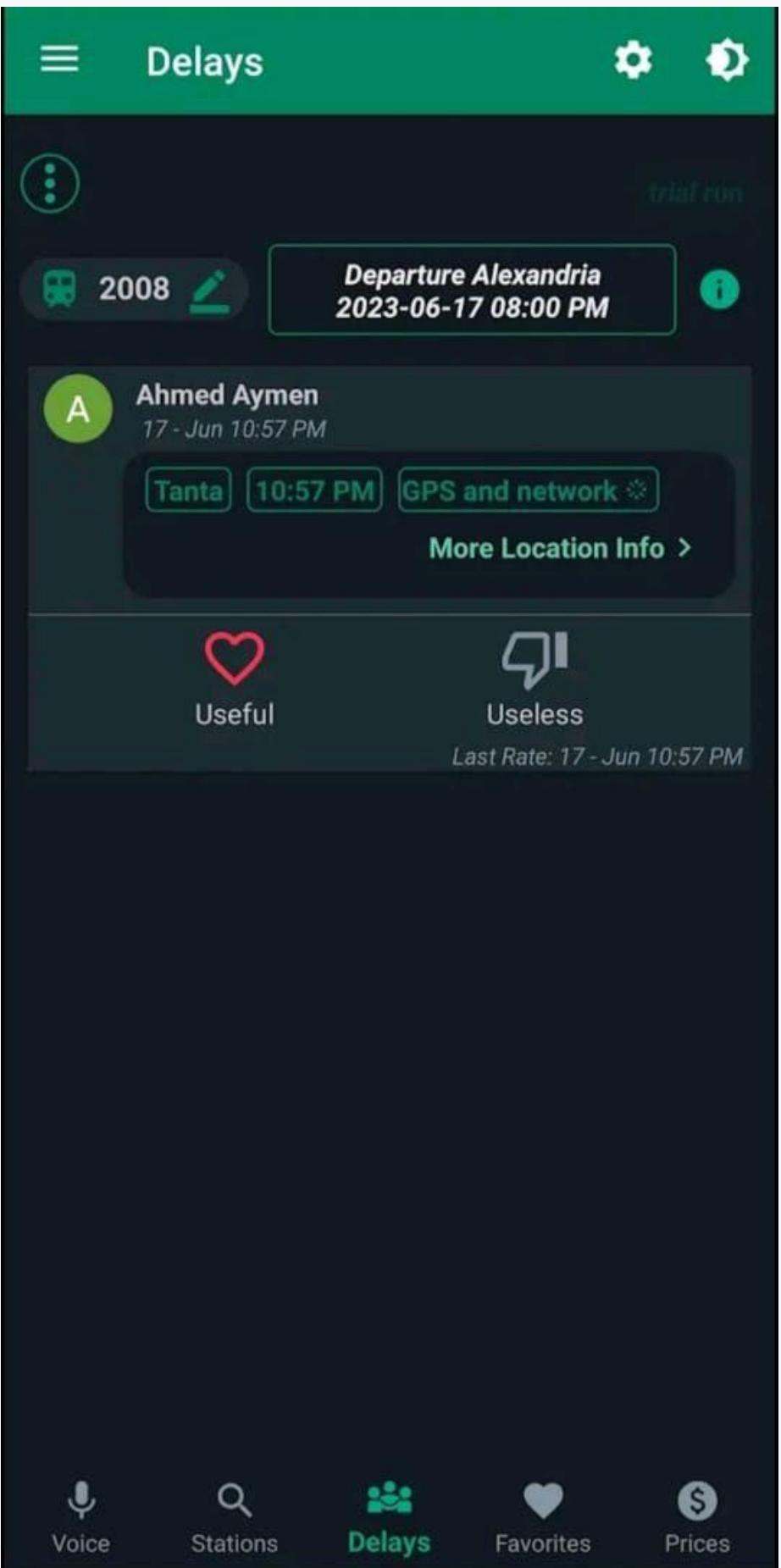
- Easy to scan: Every trip is in its own clear box.
- Important info first: Price and seats shown at the top.
- Quick to compare: All trips look the same, easy to check differences.
- Clear times: Big, bold times show exactly when the train leaves and arrives.
- Simple booking: Big "Book Now" button under every trip.
- Easy to count: "3 trips found" tells you immediately how many options you have.
- Easy to go back: "Back to Search" button if you want to change something.
- The overall user flow is smoother and faster
- Easier to read - cards better than tables

The screenshot displays a mobile application interface titled "Search Results". At the top right are three icons: a menu (three horizontal lines), a search (magnifying glass), and settings (gear). Below the title, the section "Available Trips" is shown with the sub-section "5 trips found". Each trip is presented in a card:

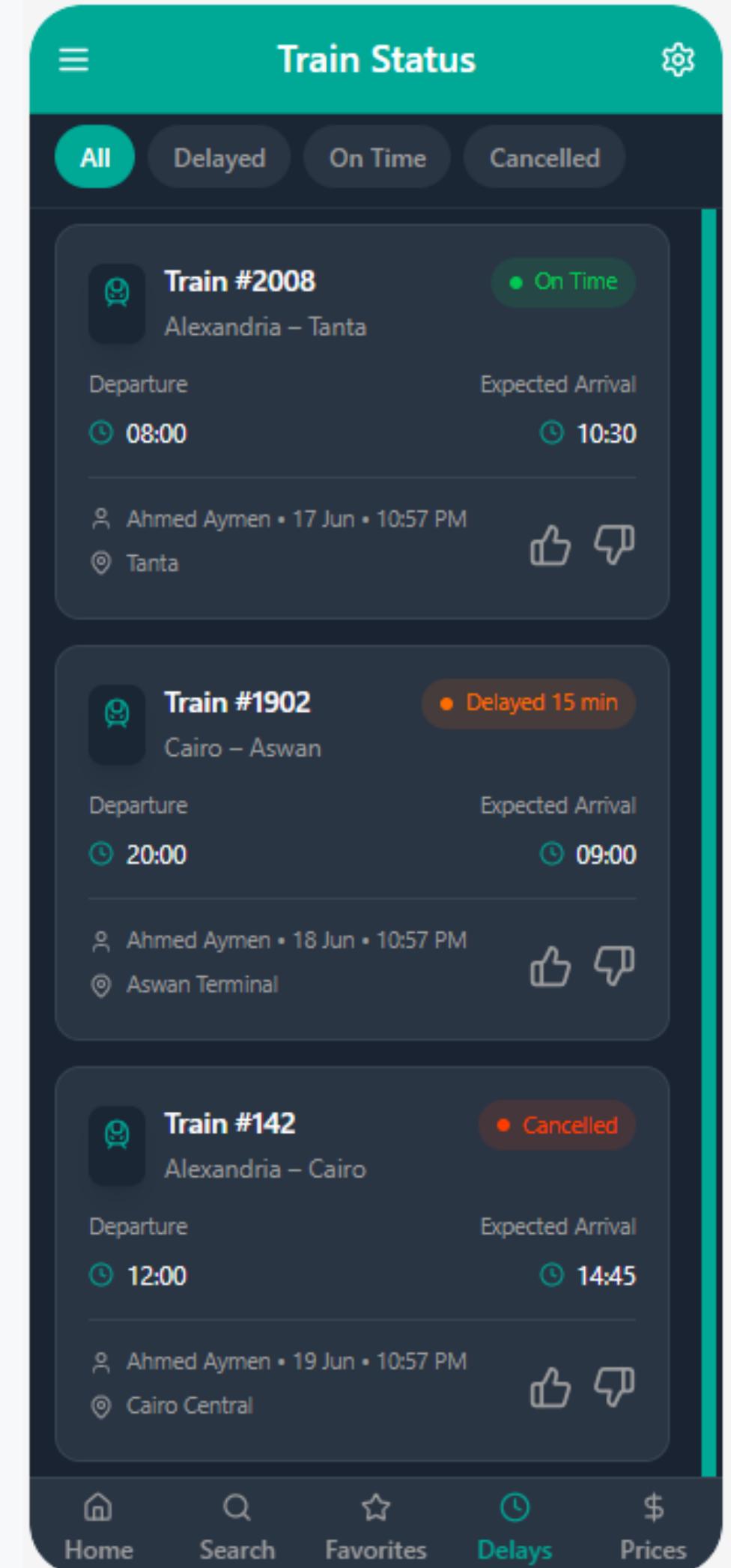
- T-101**: VIP service, 150 EGP for 12 seats. Departure: 08:00 AM from Cairo, Arrival: 10:30 AM in Alexandria. Duration: 2h 30m. A "Book Now" button is at the bottom.
- T-203**: Air Conditioned, 100 EGP for 25 seats. Departure: 10:15 AM from Cairo, Arrival: 12:45 PM in Alexandria. Duration: 2h 30m. A "Book Now" button is at the bottom.
- T-305**: Talgo, 180 EGP for 8 seats. Departure: 02:00 PM from Cairo, Arrival: 04:30 PM in Alexandria. Duration: 2h 30m. A "Book Now" button is at the bottom.

At the bottom of the screen are five navigation icons: Home (house), Search (magnifying glass), Favorites (star), Delays (clock), and Prices (dollar sign).

Old Design



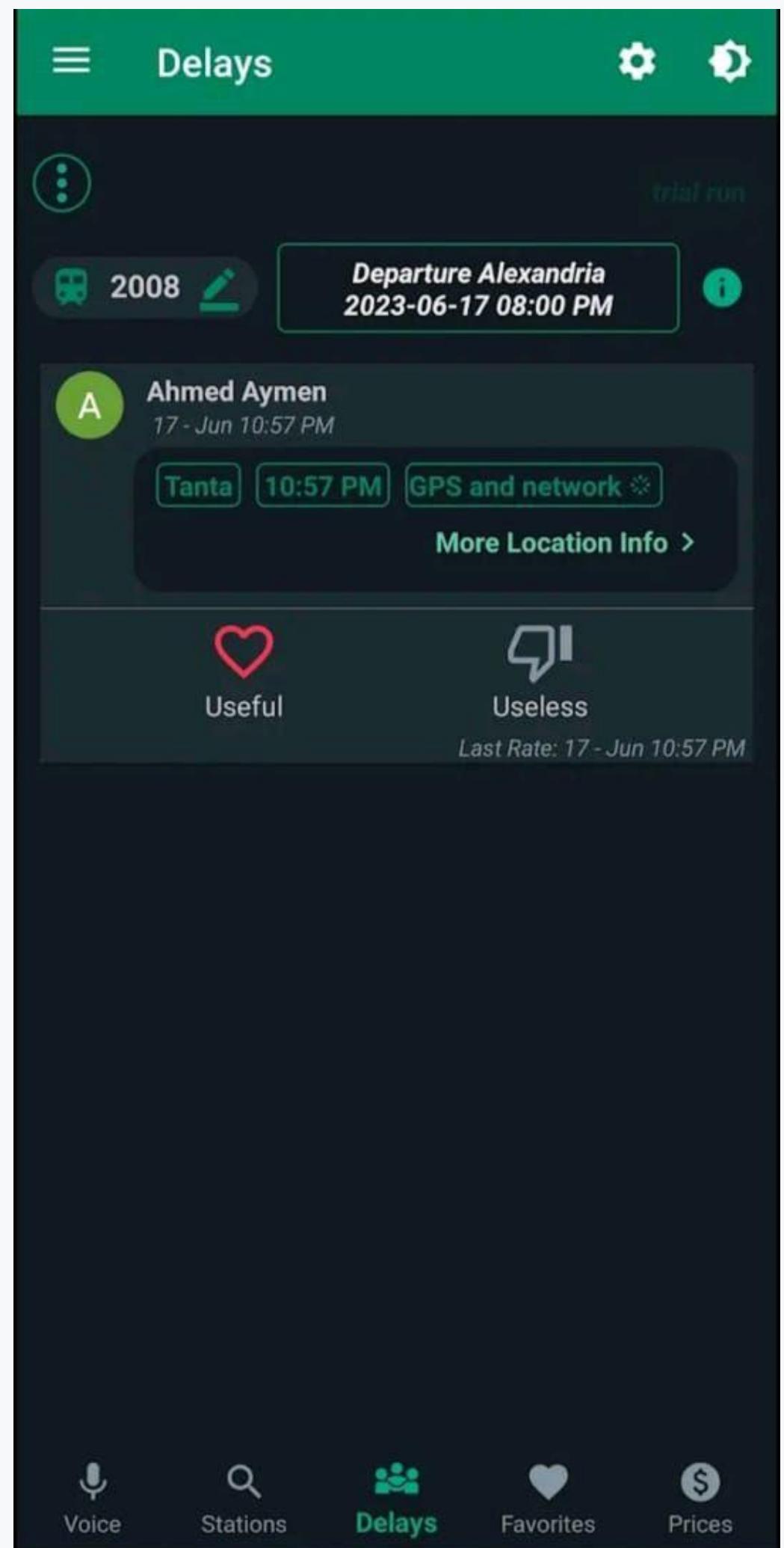
New Design



Old Design

Problems

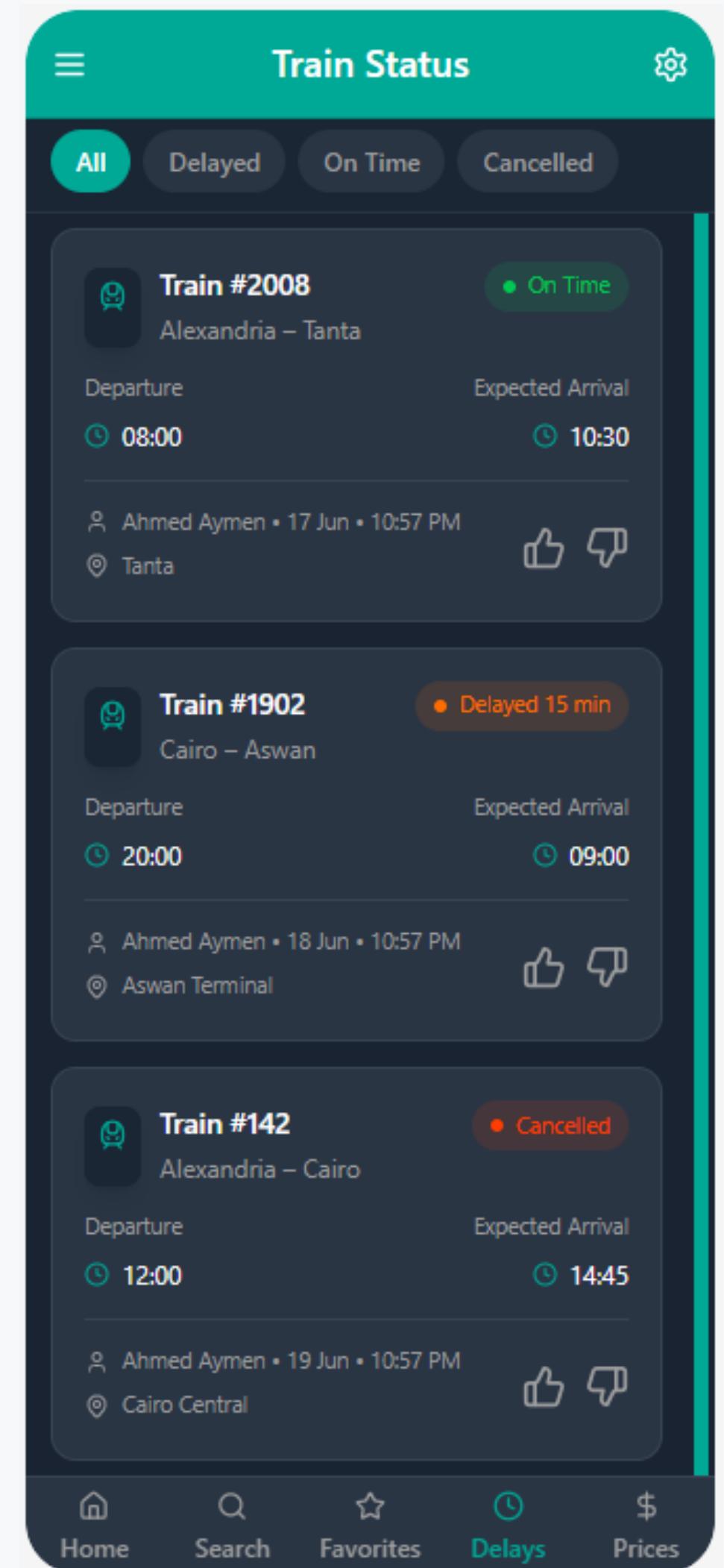
- Inconsistent layout and formatting (mixed fonts, alignment issues).
- Poor organization of information; sections not logically grouped.
- Confusing or unclear data (unlabeled numbers, ambiguous tables).
- Ineffective interactive elements or missing feedback.
- Navigation disorganized and inconsistent.
- inconsistent formatting



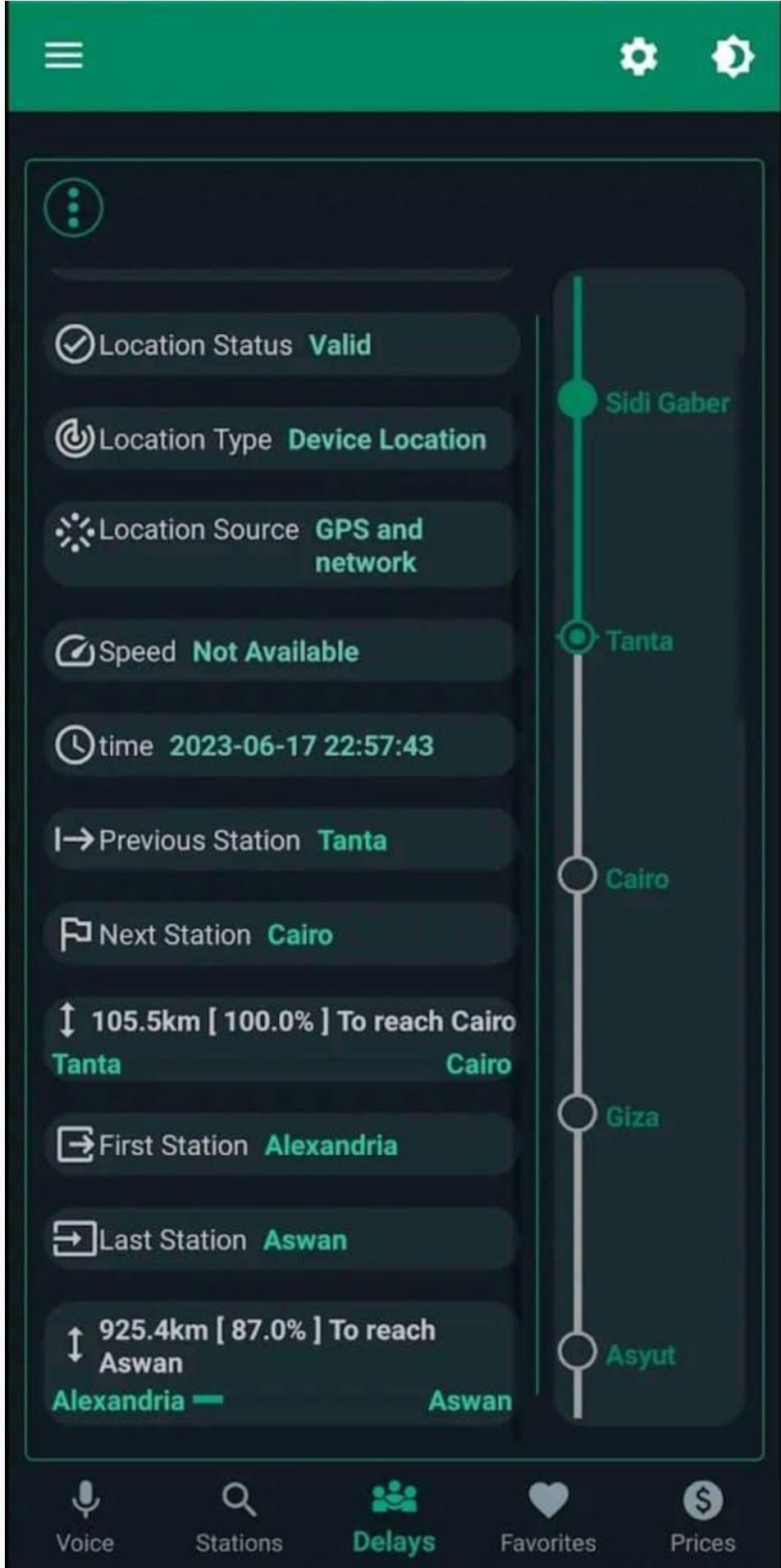
New Design

Key Improvements

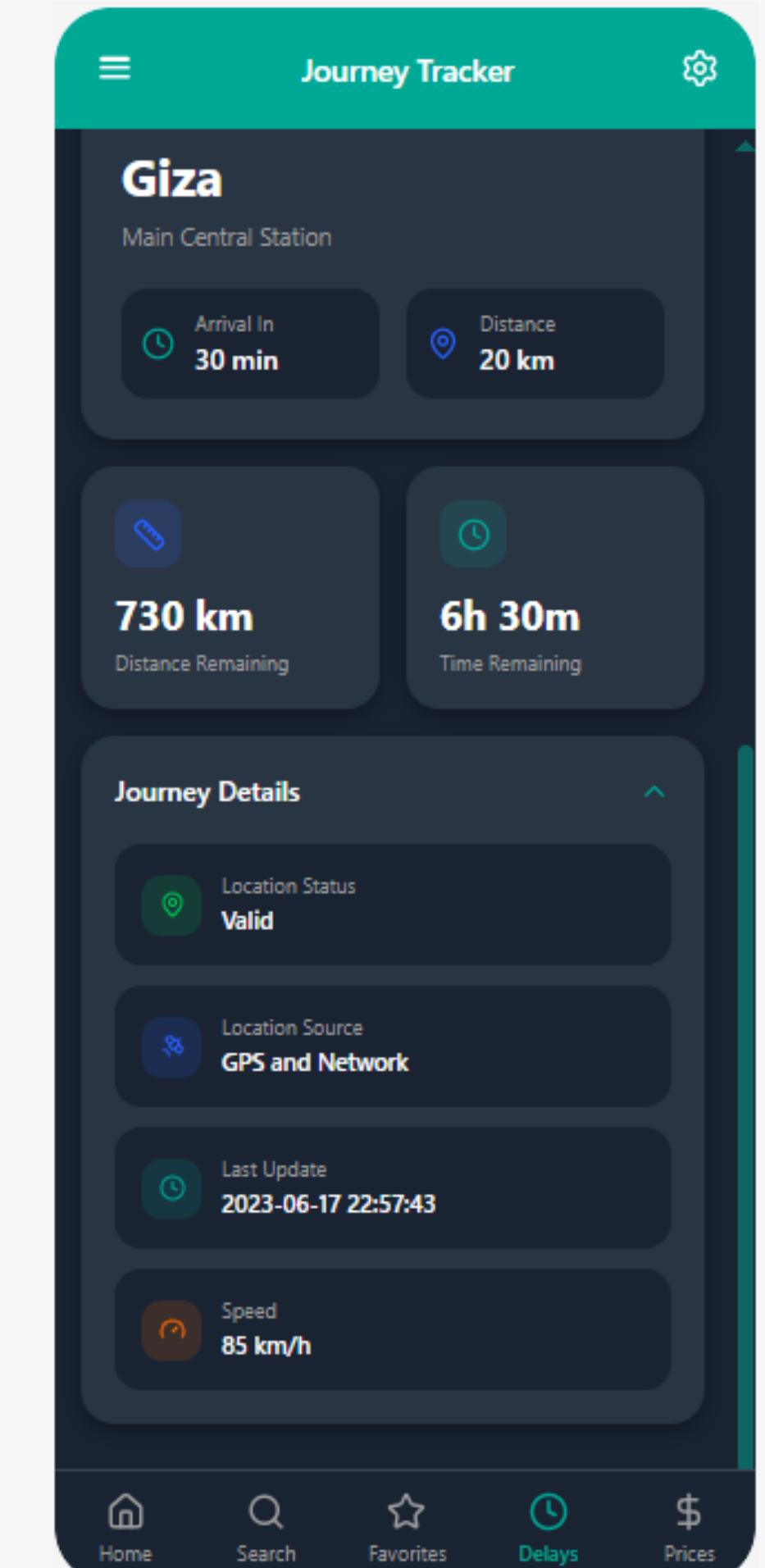
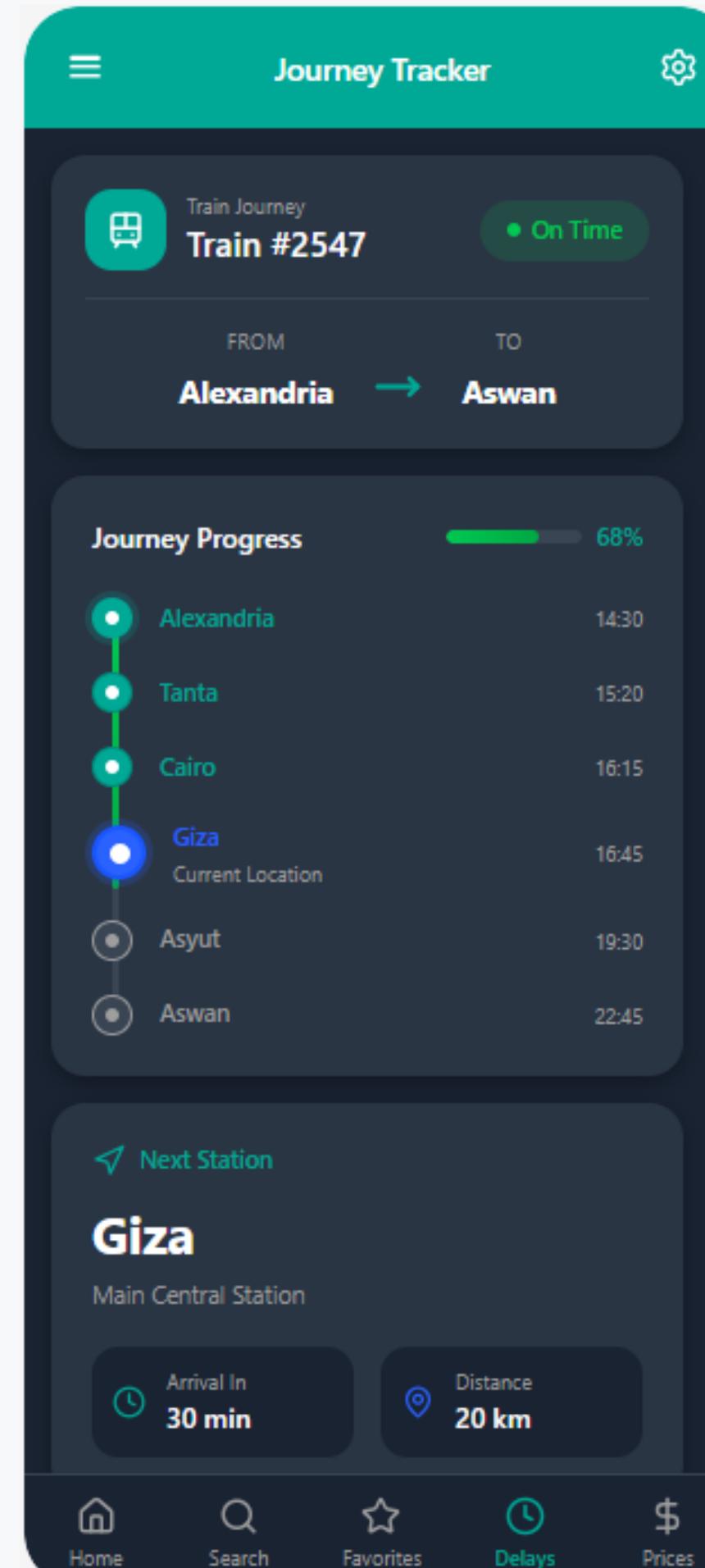
- Clear and organized layout with strong visual hierarchy.
- Interactive elements visible and intuitive (checkboxes, confirm selection).
- Logical grouping of information and sections.
- Consistent formatting and language.
- Easy to read, compare, and understand key data.
- Navigation aligned and visually separated.
- Helpful notes and feedback sections.



Old Design



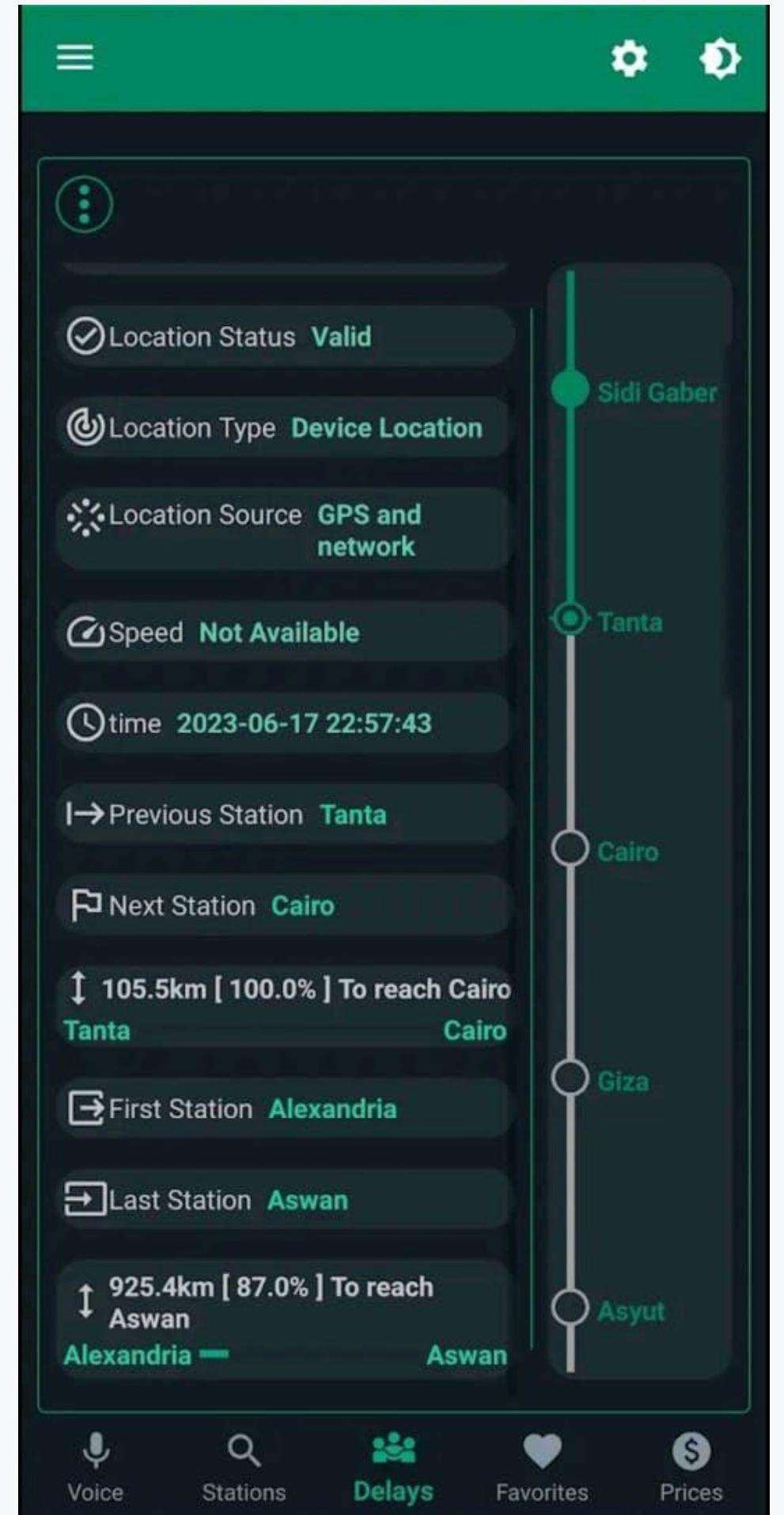
New design



Old Design

Problems

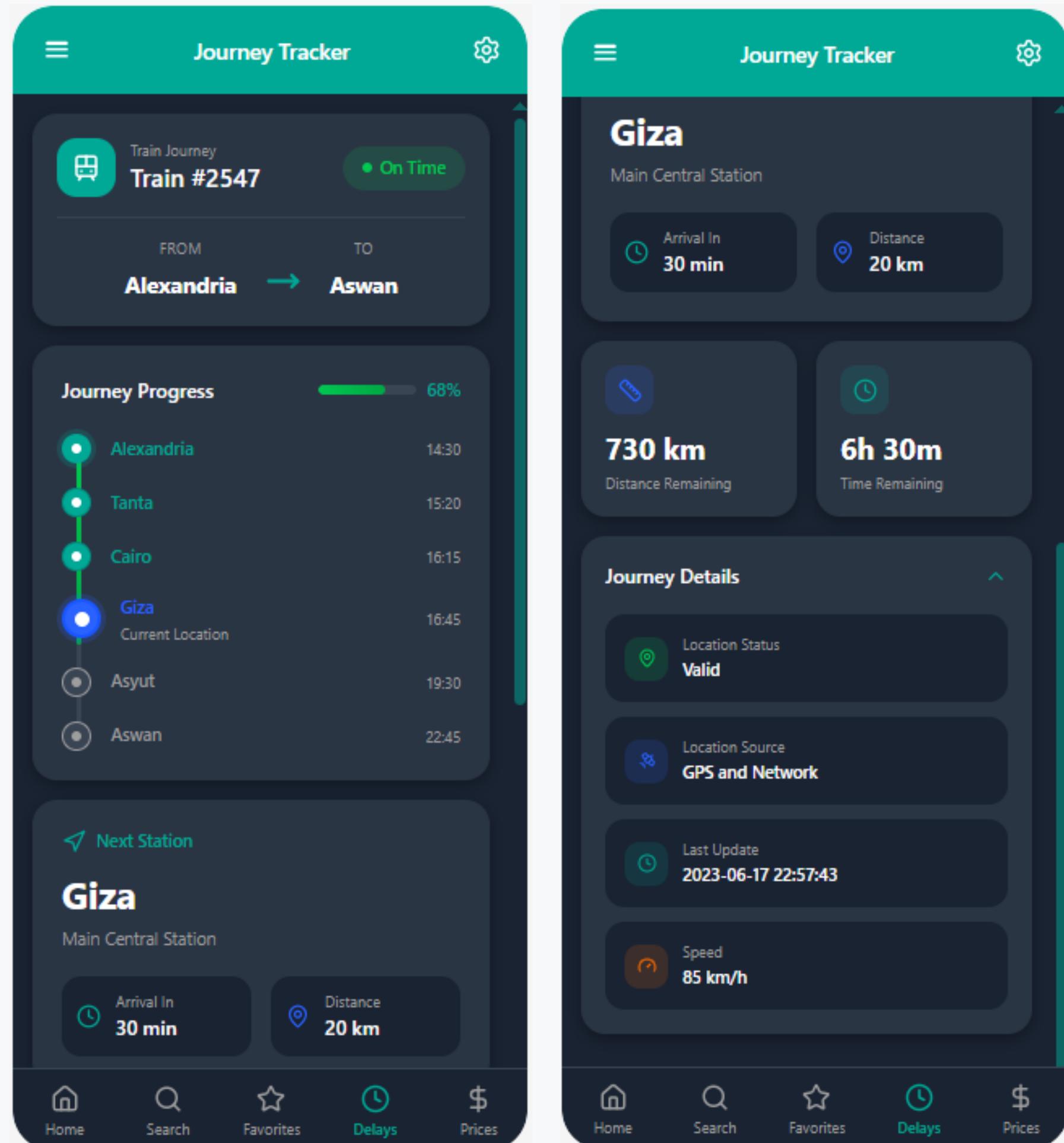
- Weak visual hierarchy with no clear distinction between elements.
- Poorly organized and crowded content.
- Unclear data presentation with high text density.
- Lack of separators and visual grouping.
- Weak user experience that requires extra effort



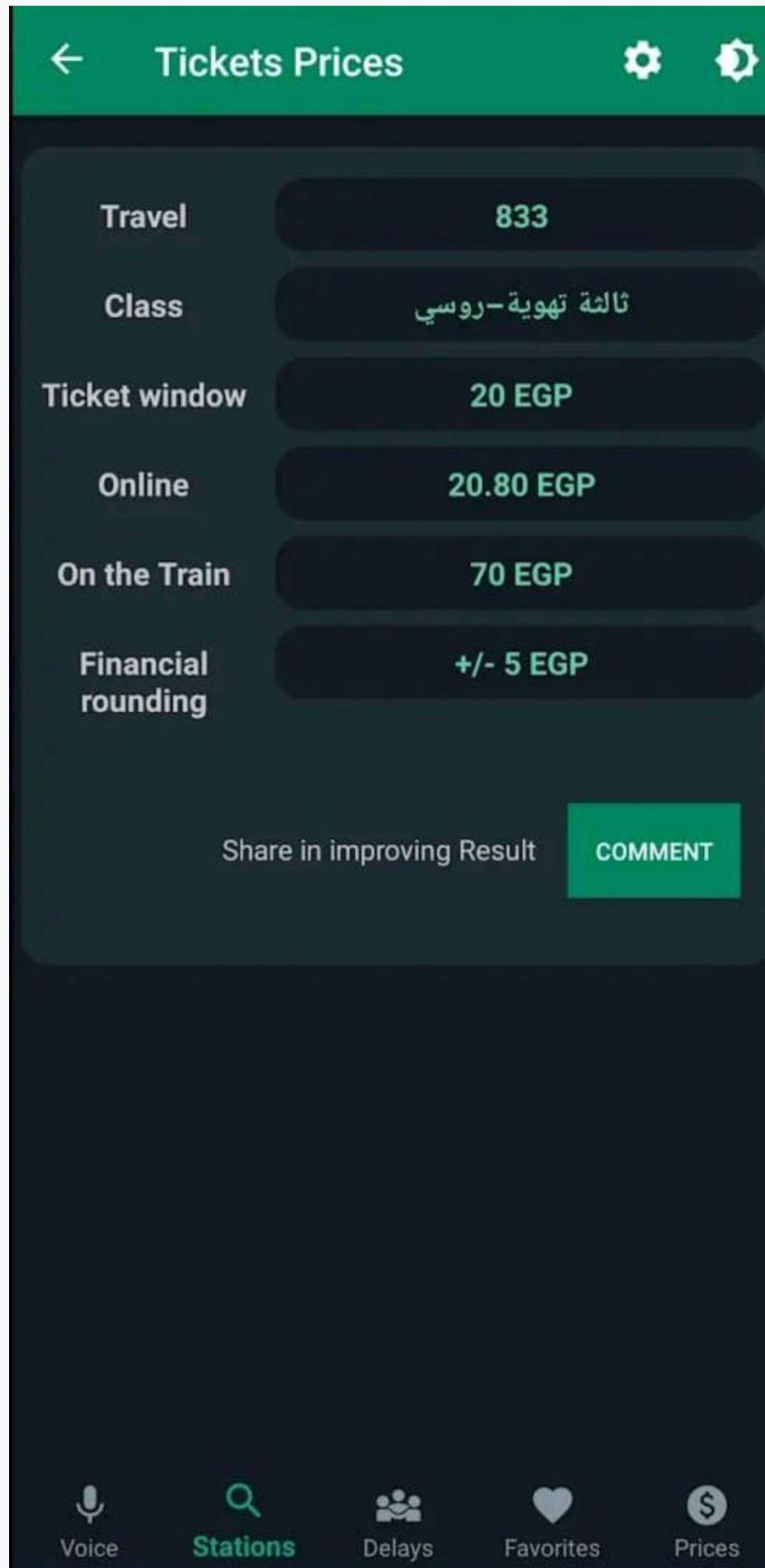
New Design

Key Improvements

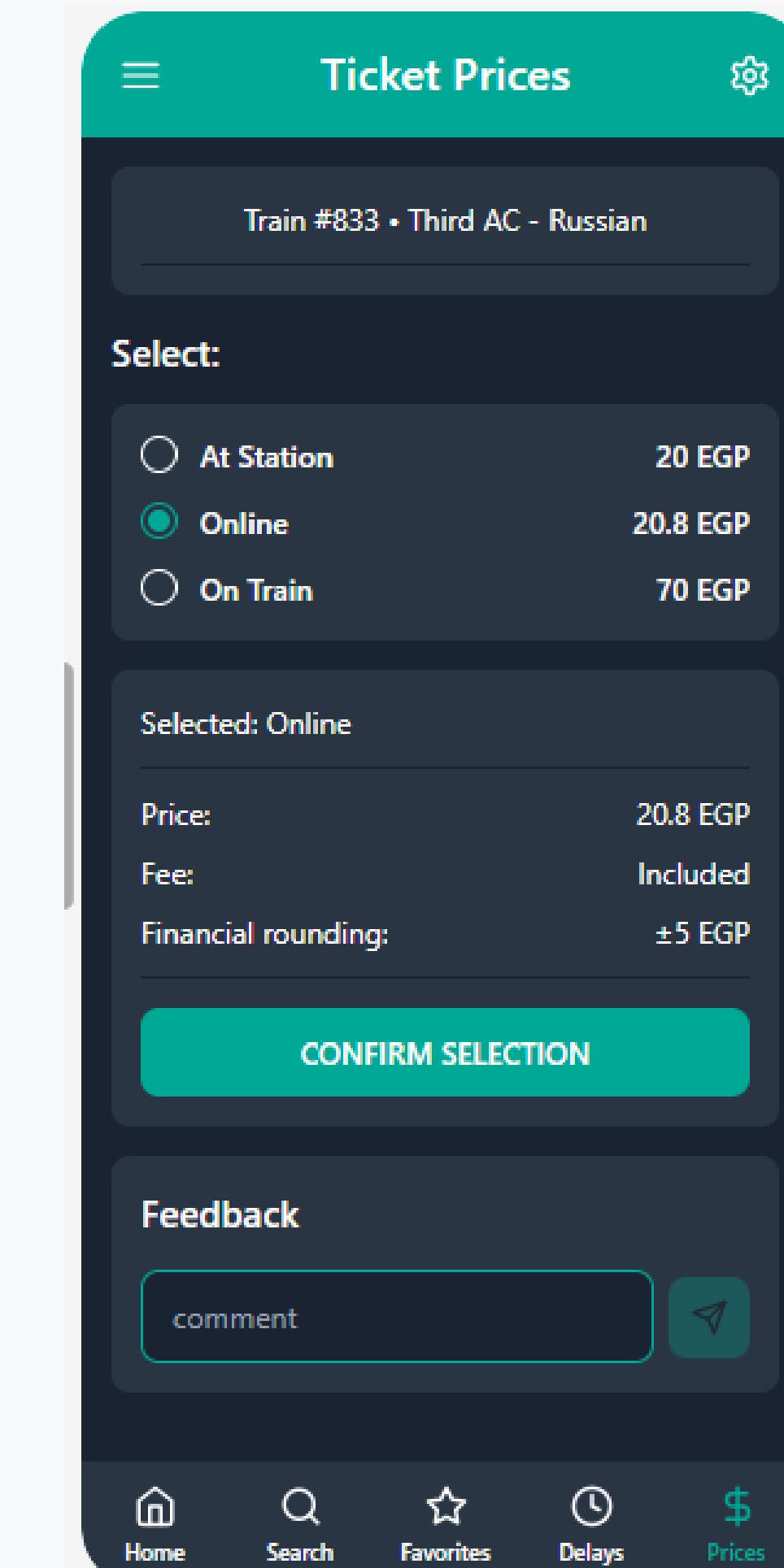
- Clear visual hierarchy that highlights important information.
- Well-organized content with logical sections and proper spacing.
- Easy and clear data presentation using labels and visual elements.
- Information arranged by priority for quick access.
- Smooth, professional, and user-friendly experience



Old Design



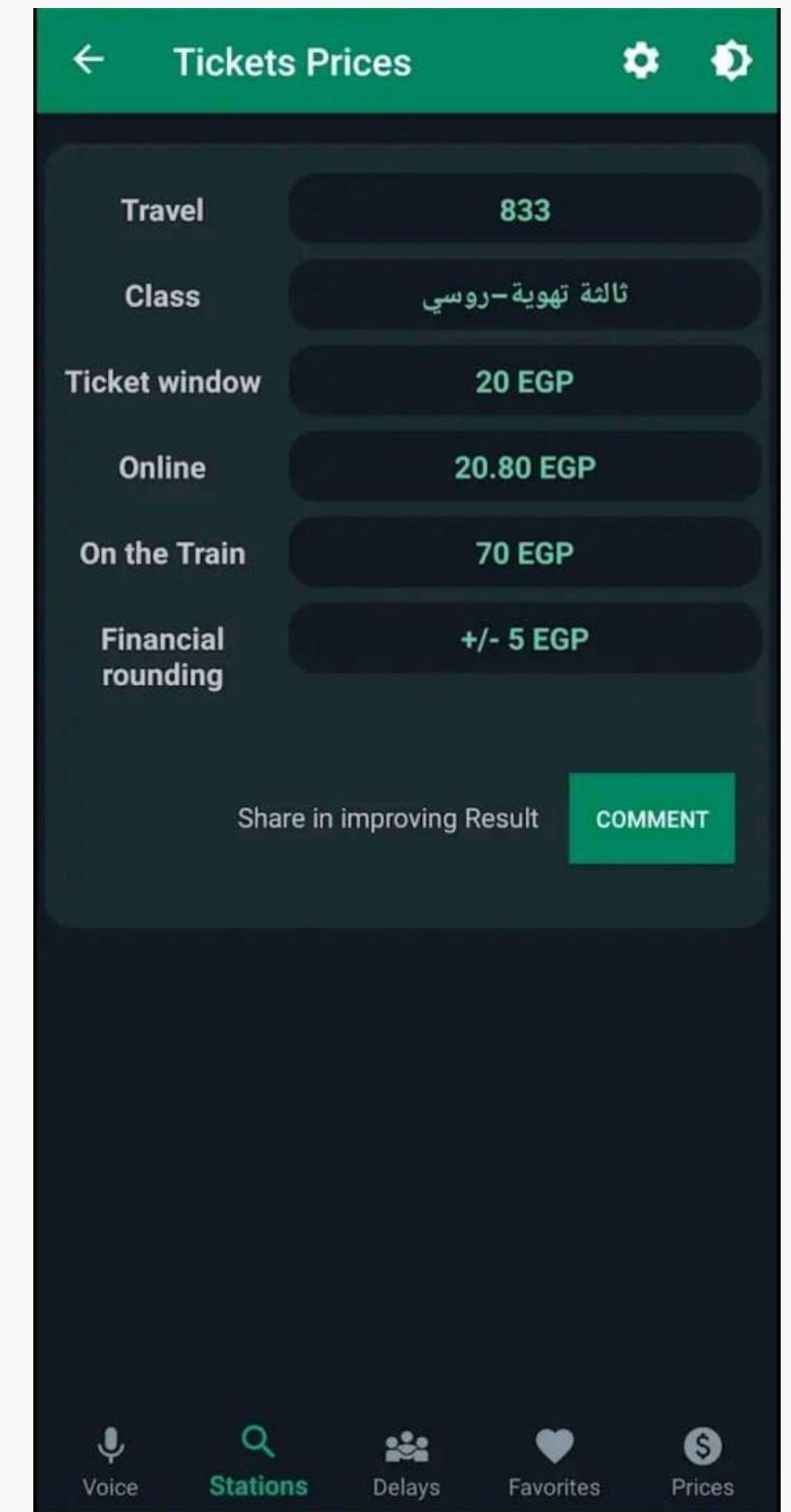
New Design



Old Design

Problems

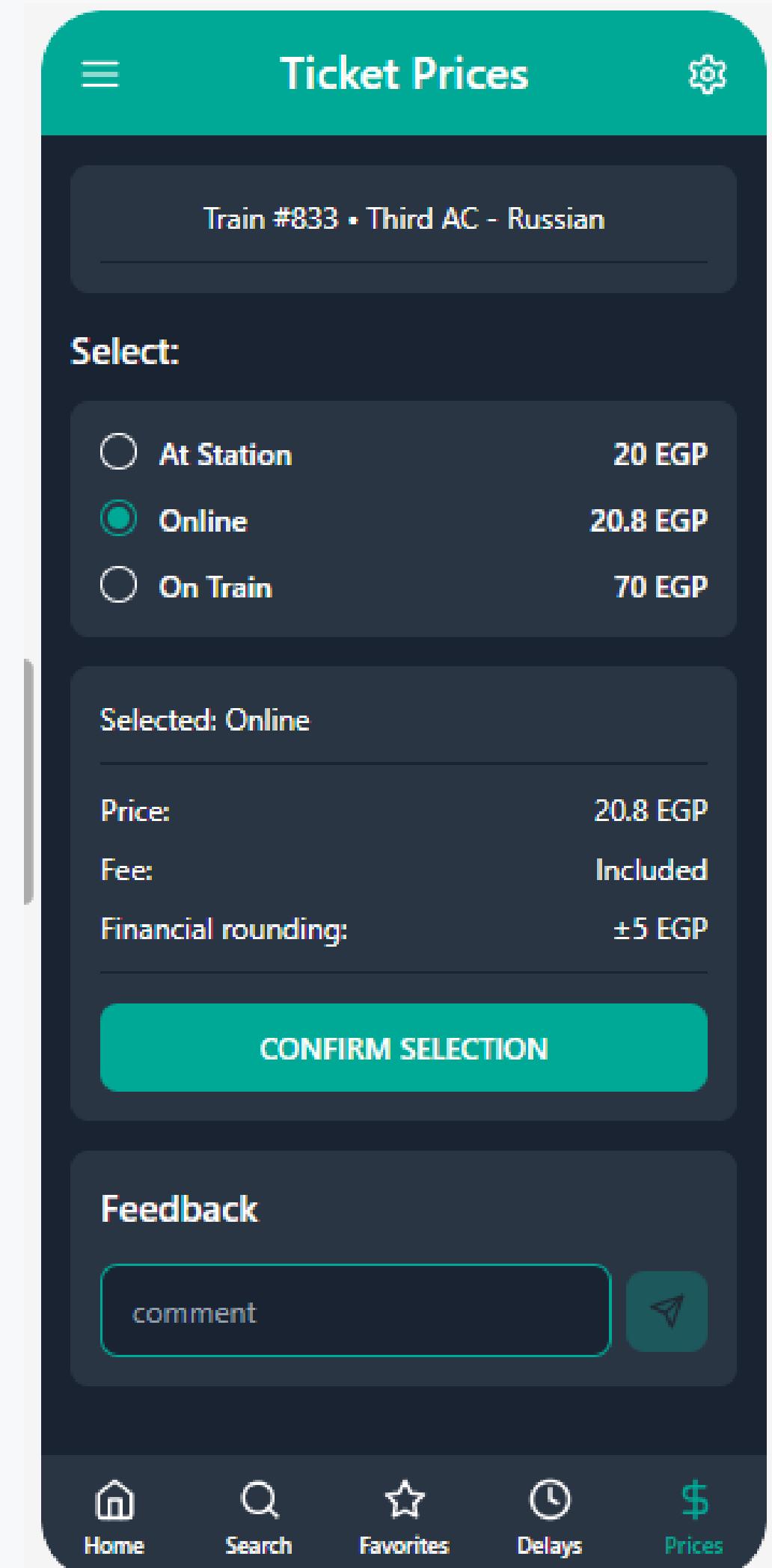
- Inconsistent layout and alignment.
- Poor and illogical information organization.
- Unclear interaction with no selection or confirmation feedback.
- Disorganized navigation and inconsistent formatting.
- Mixed language and price formats.
- Weak and tiring user experience.



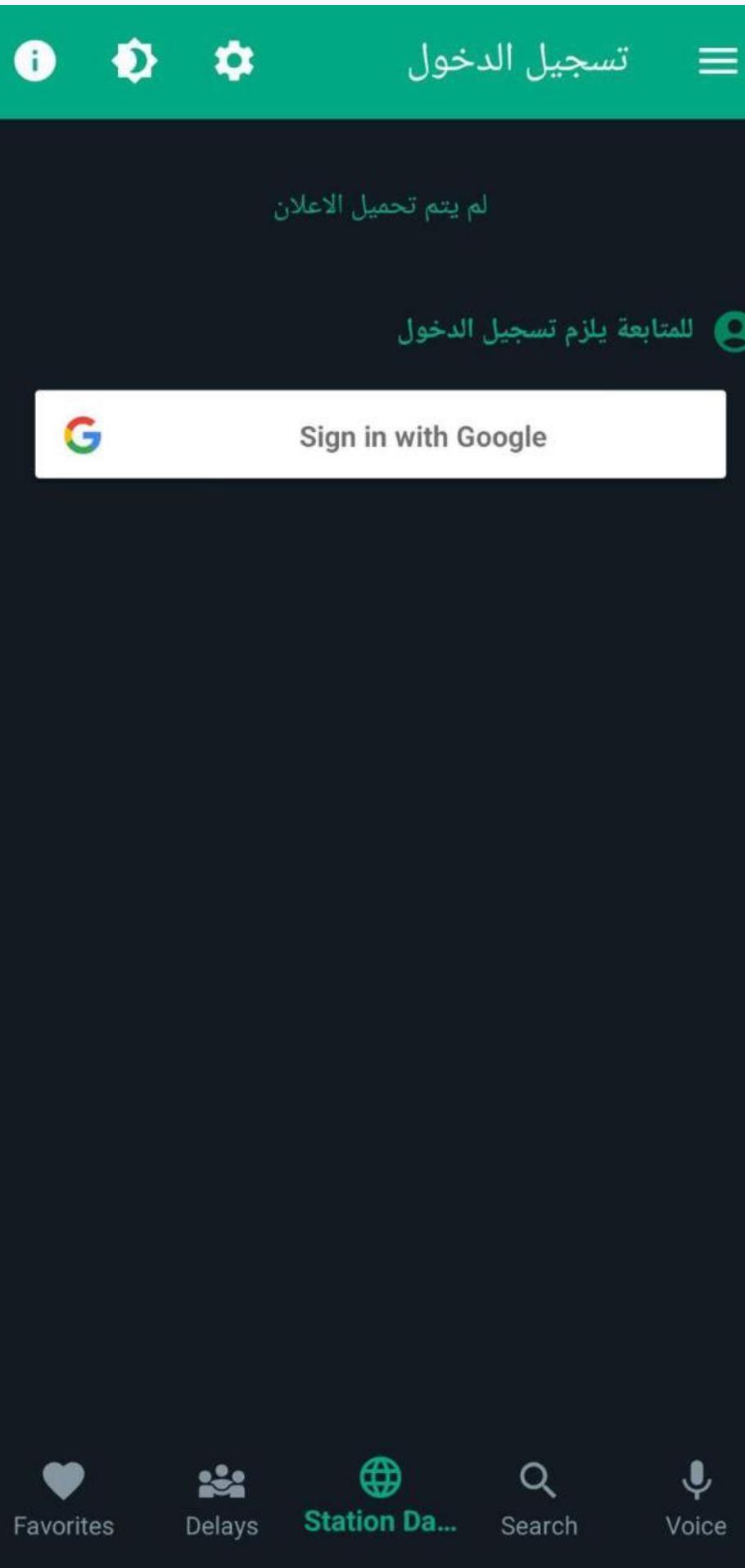
New Design

Key Improvements

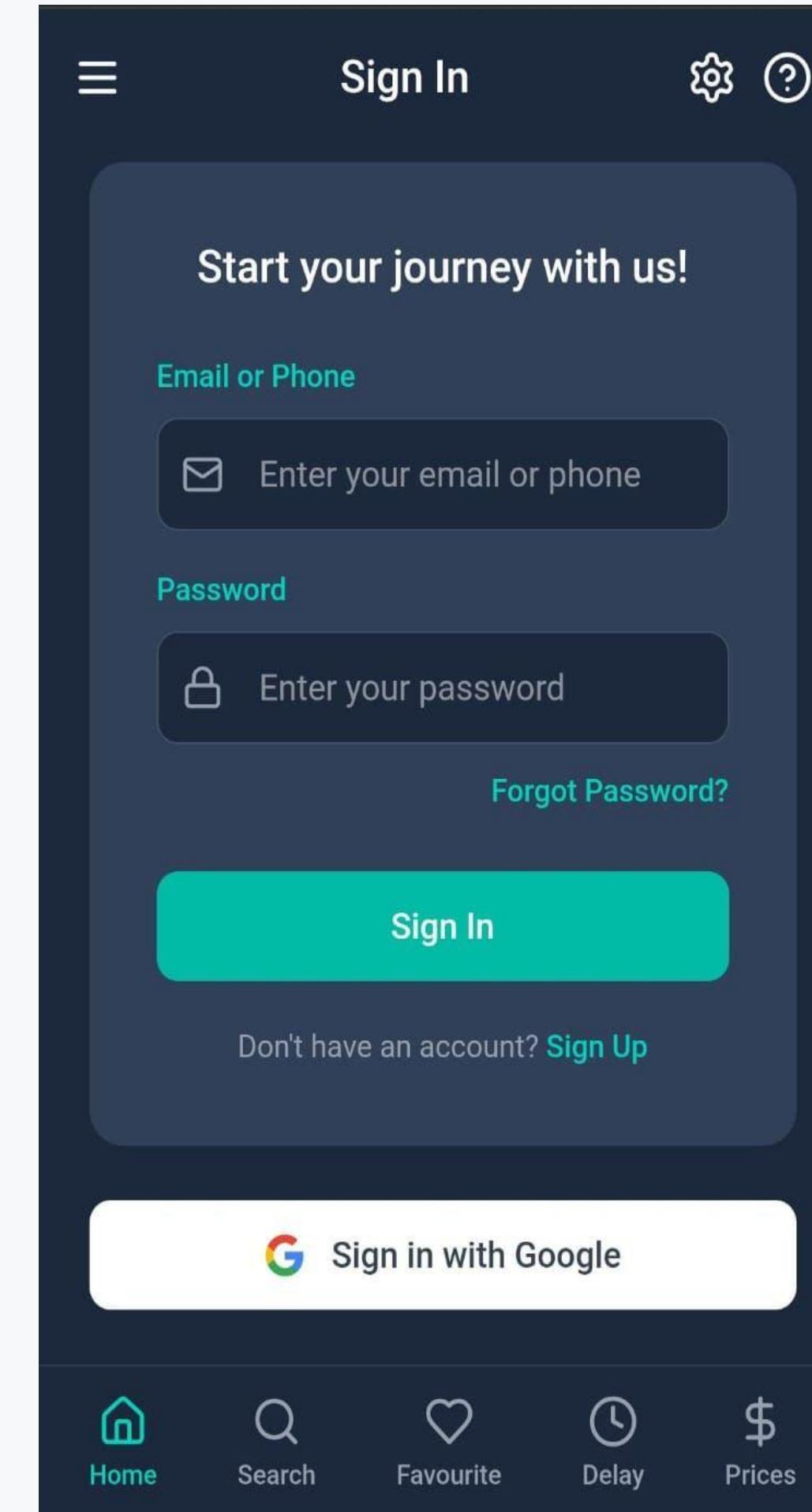
- Clear visual hierarchy and structured headings.
- Intuitive interaction with clear selection and confirmation.
- Well-organized information with grouped options and summary.
- Consistent language, spacing, and price formatting.
- Clear and organized navigation.
- Better overall user experience.



Old Design



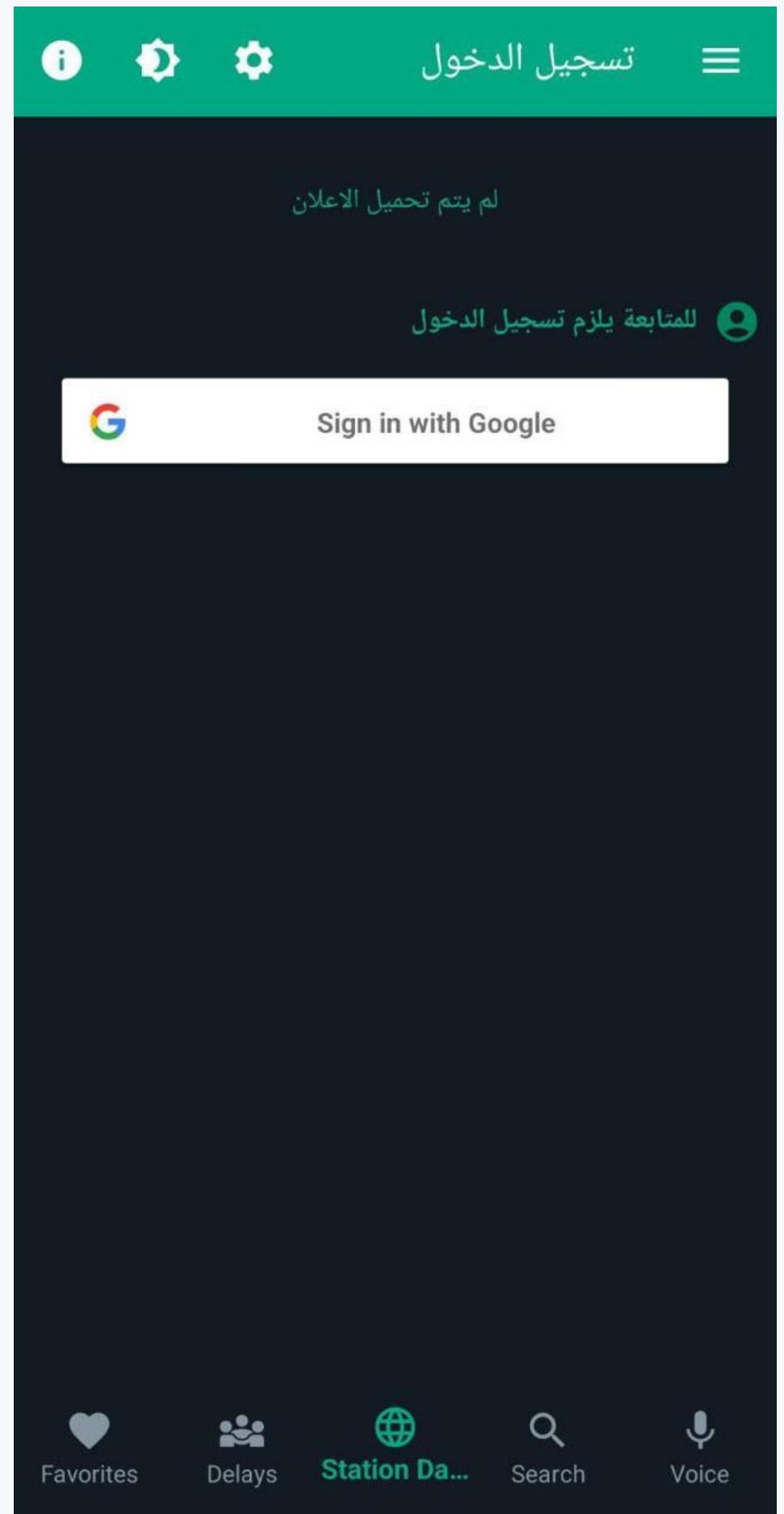
New Design



Old Design

Problems

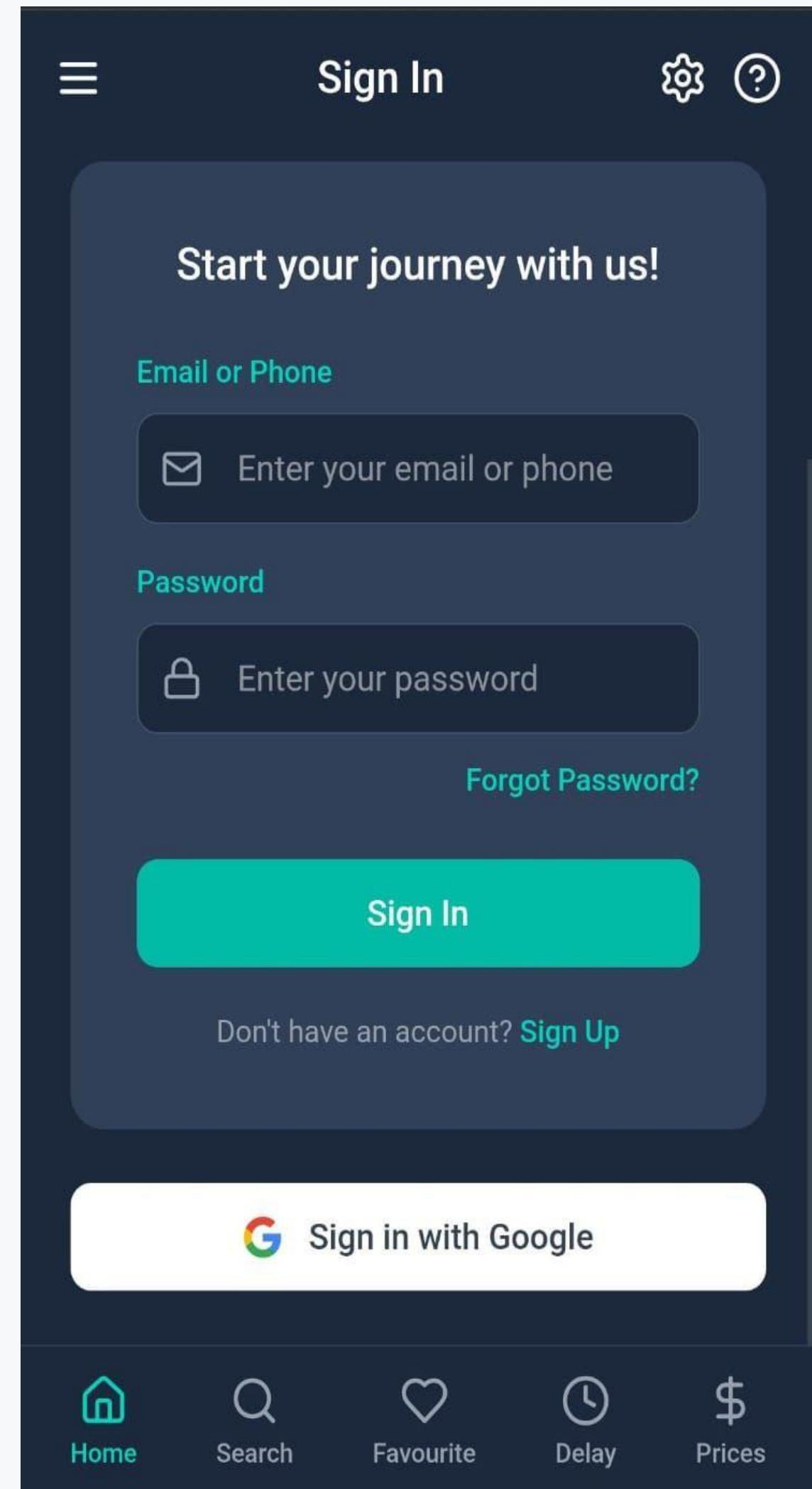
- Limited Login: Only Google sign-in; no sign-up or recovery options.
- Weak Layout: Disorganized elements and excessive empty space.
- Poor Aesthetics: Unbalanced colors and inconsistent language (Arabic/English).



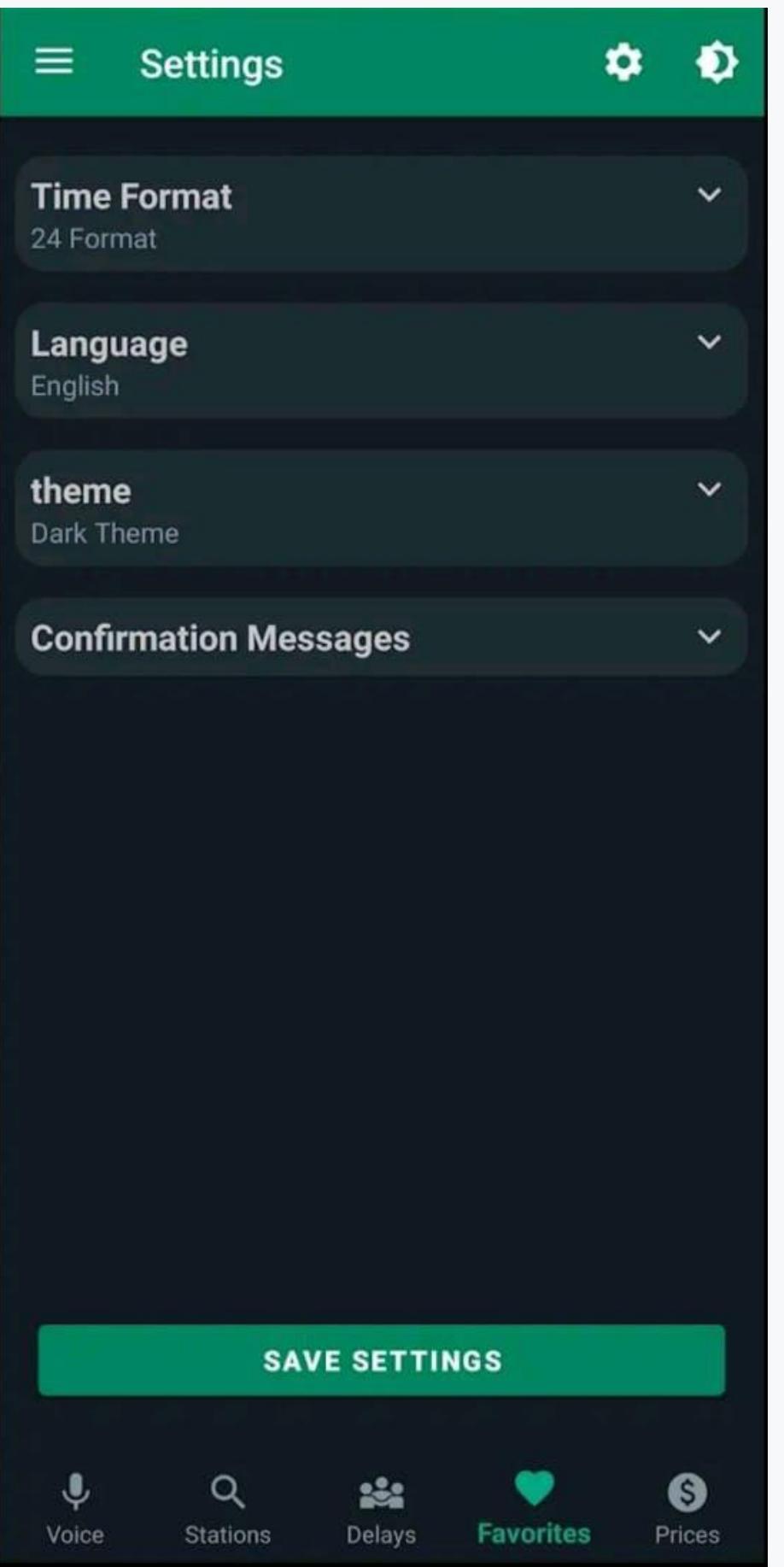
New Design

Key Improvements

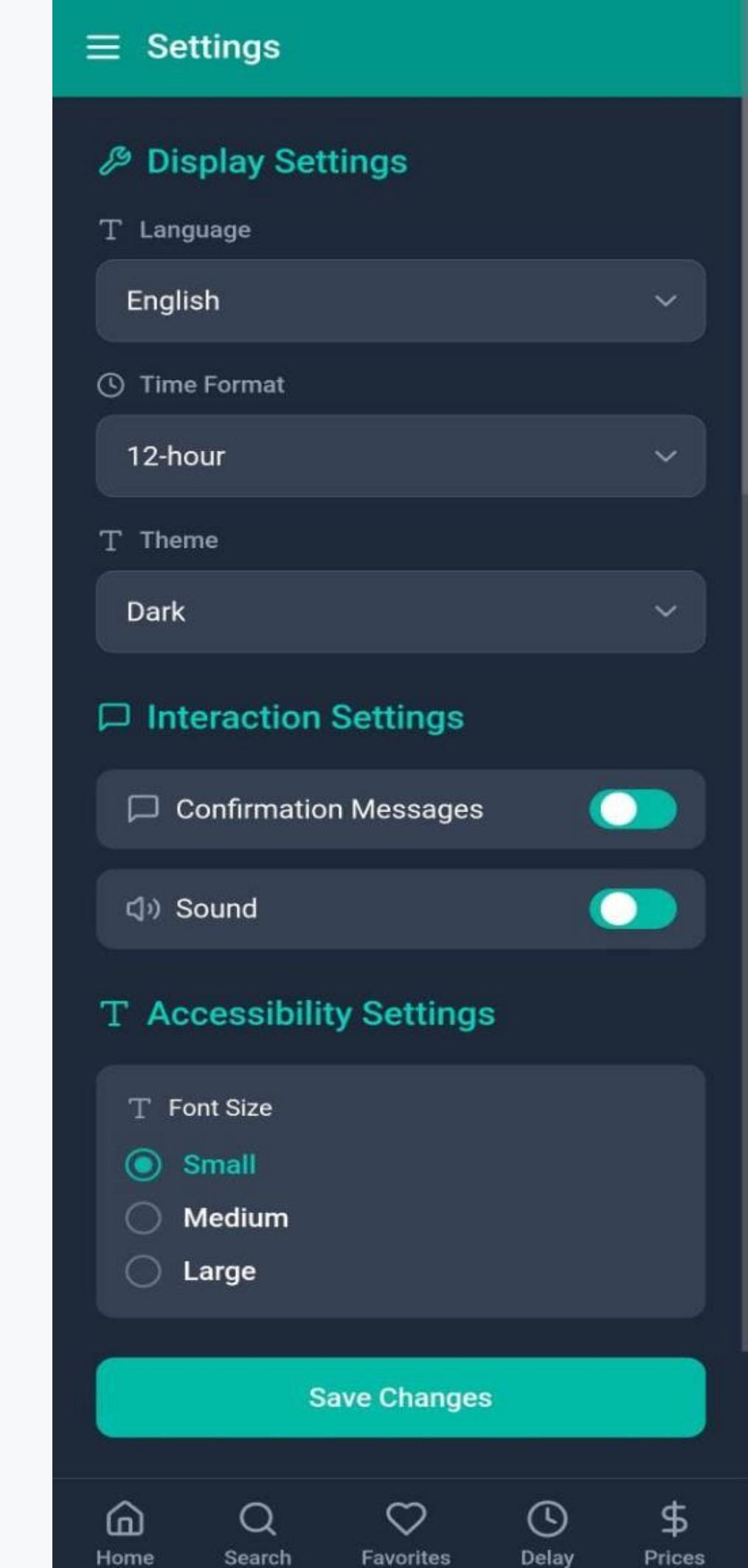
- Flexible Access: Added Email, Phone, and Google login options.
- Full User Flow: Included "Sign Up" and "Forgot Password" features.
- Clean Card UI: Grouped elements into a focused, centered card design.
- Optimized Layout: Removed empty spaces for better focus.
- Unified Language: Standardized to English for a professional, global feel.



Old Design



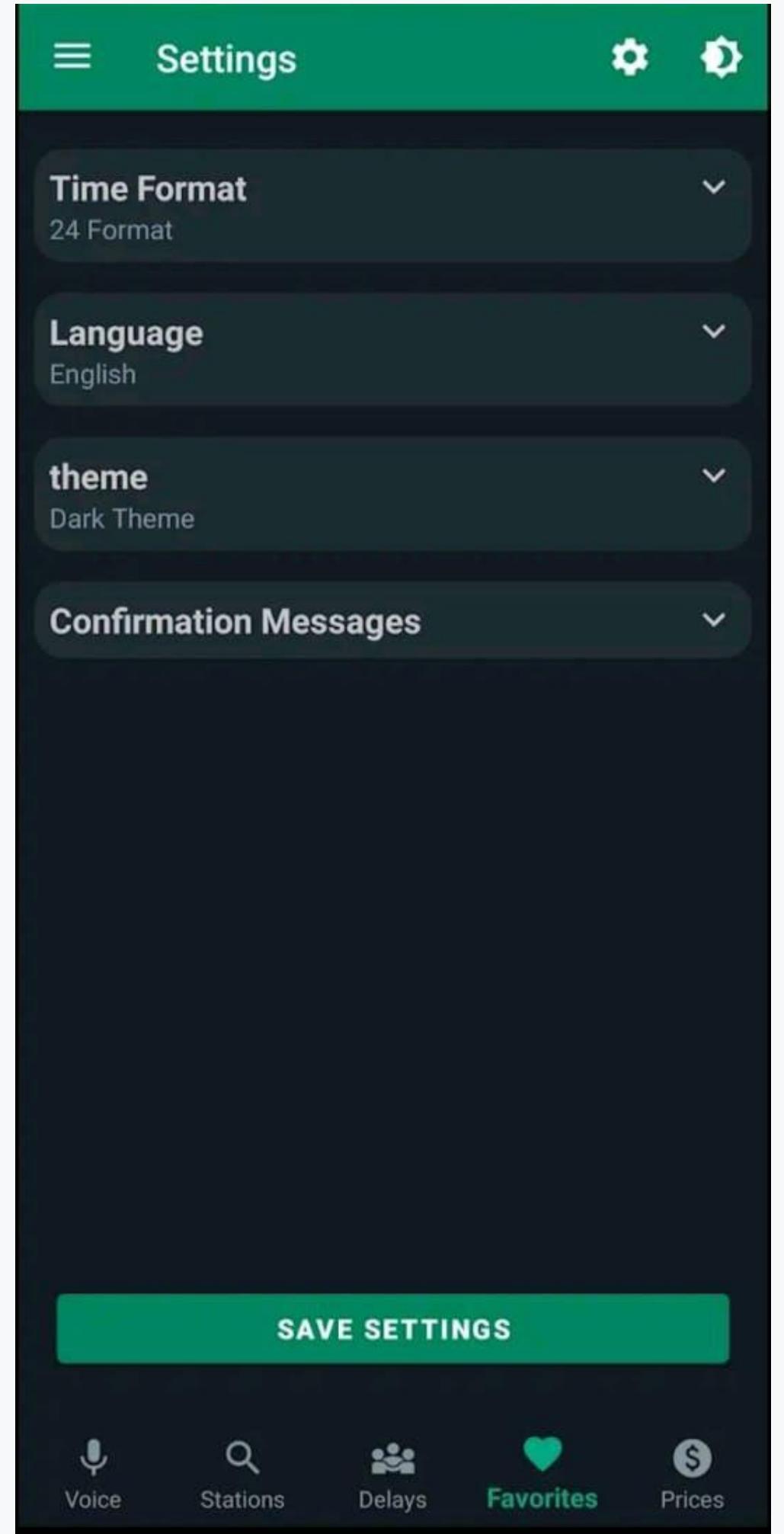
New Design



Old Design

Problems

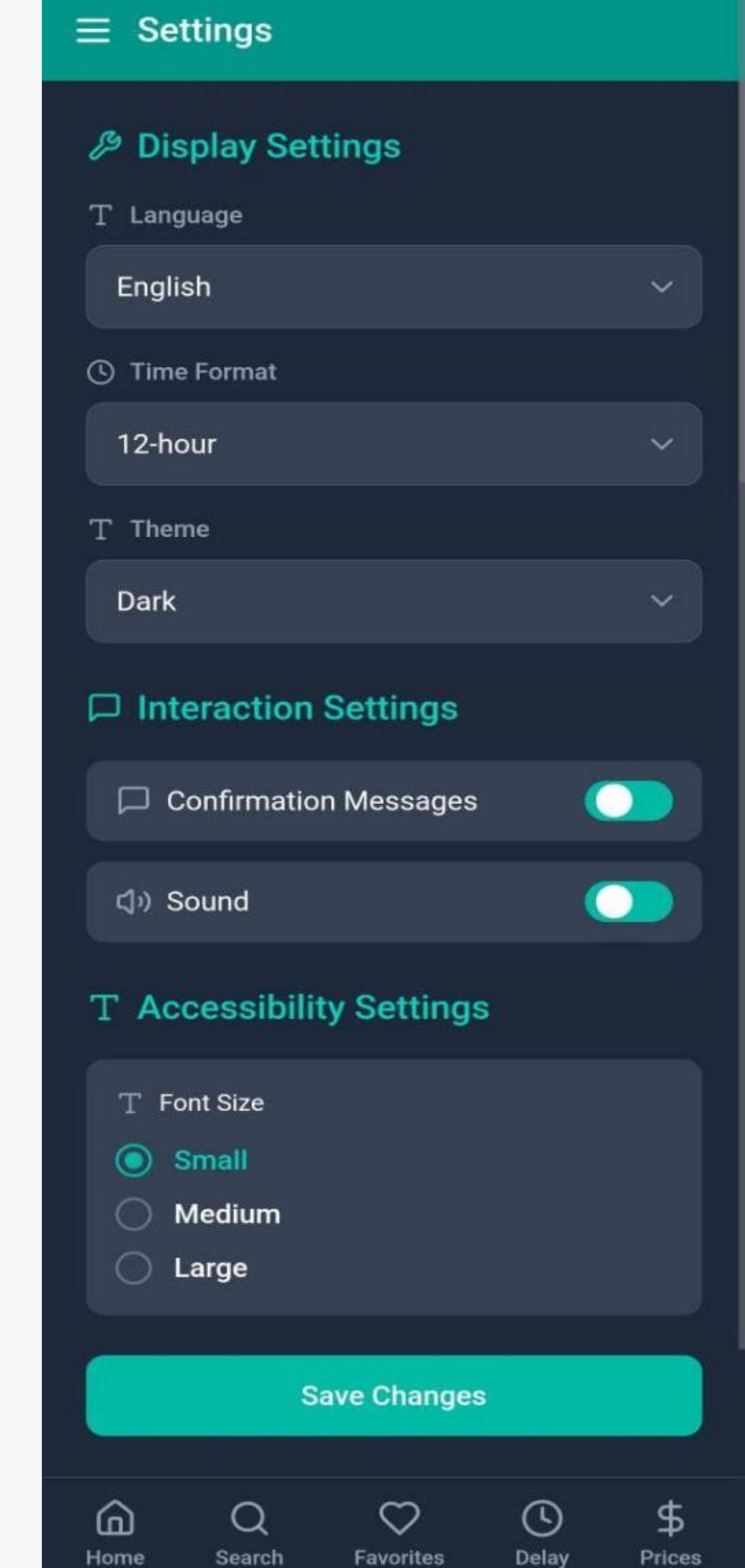
- Inefficient Inputs: Used dropdowns for simple "Yes/No" choices.
- High Friction: Too many clicks required for basic settings.
- Text-Heavy UI: Lack of icons makes navigation slow and boring.
- Cluttered Header: Too many unnecessary icons in the top bar.
- Poor Scaling: Ineffective use of available screen space.



New Design

Problems

- Smart Grouping: Organized settings into clear categories.
- Direct Access: Visible options and toggles instead of hidden menus.
- Enhanced Visuals: Added icons and a clear "Save" button.
- Clean Layout: Simplified header and better use of screen space



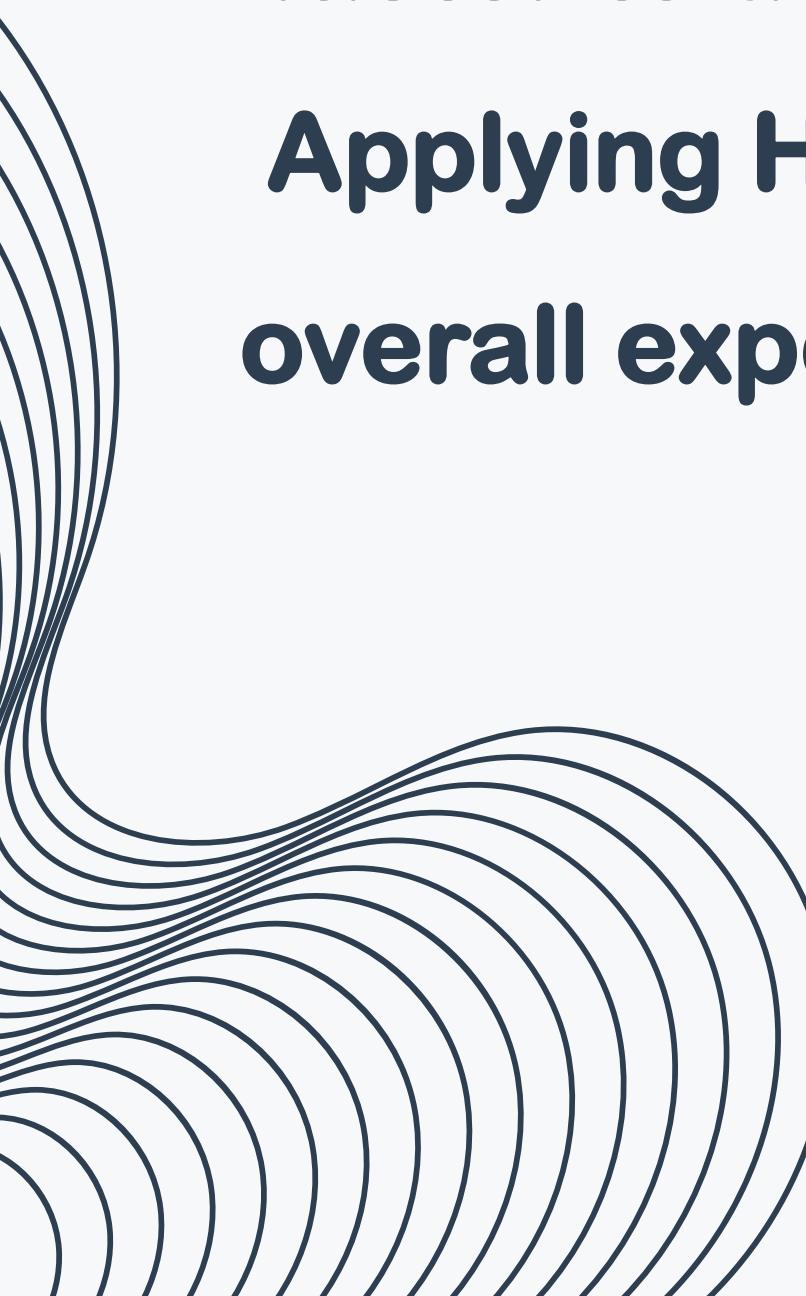
Impact of Redesign

- Tasks completed faster
- Fewer errors and confusion
- Less mental effort
- A more comfortable, professional feel

Conclusion

- The redesigned Egypt's Trains app is clearer, easier, and faster to use.

Applying HCI principles improved both usability and overall experience compared to the old design.





Thank You!