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

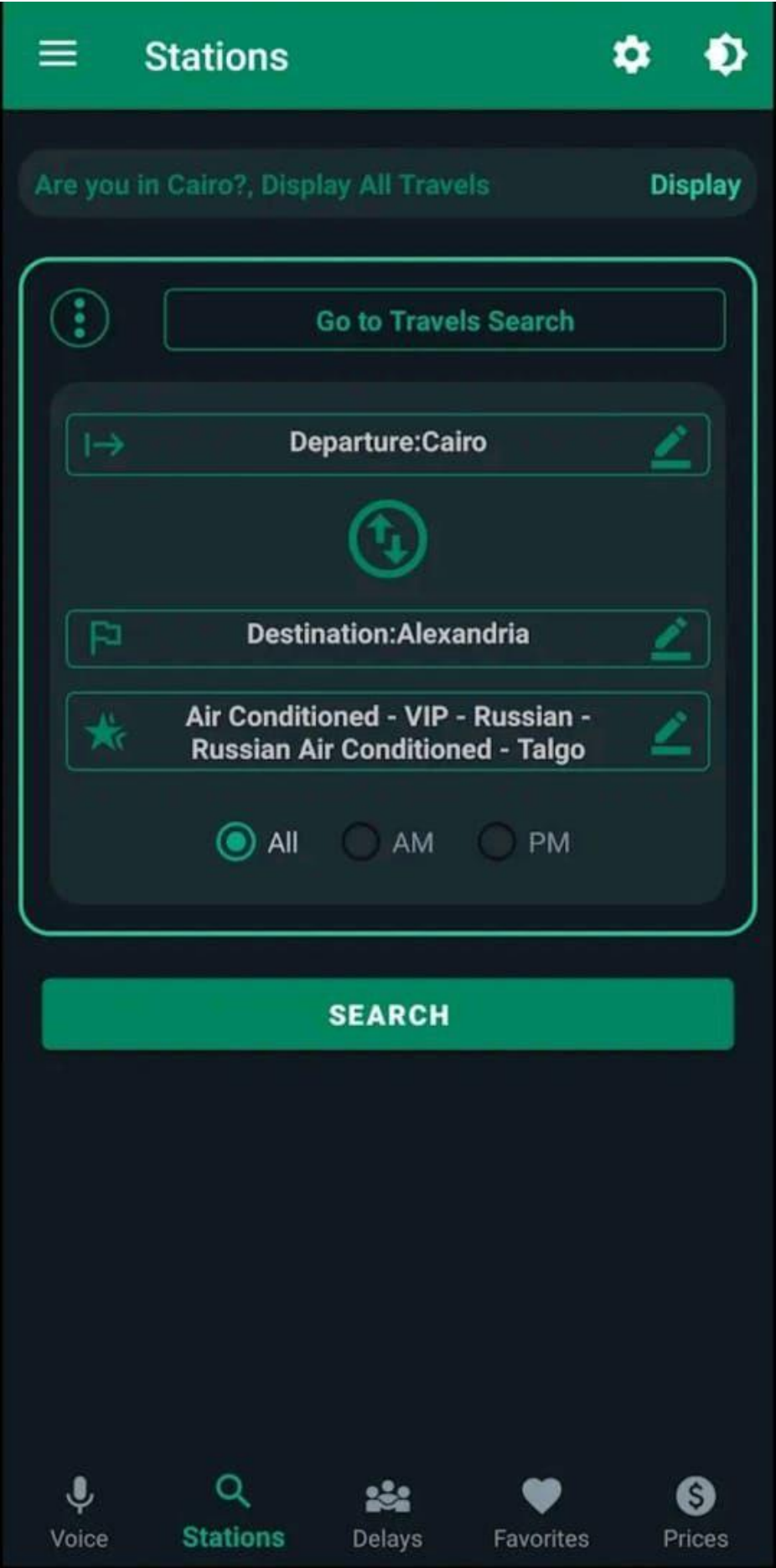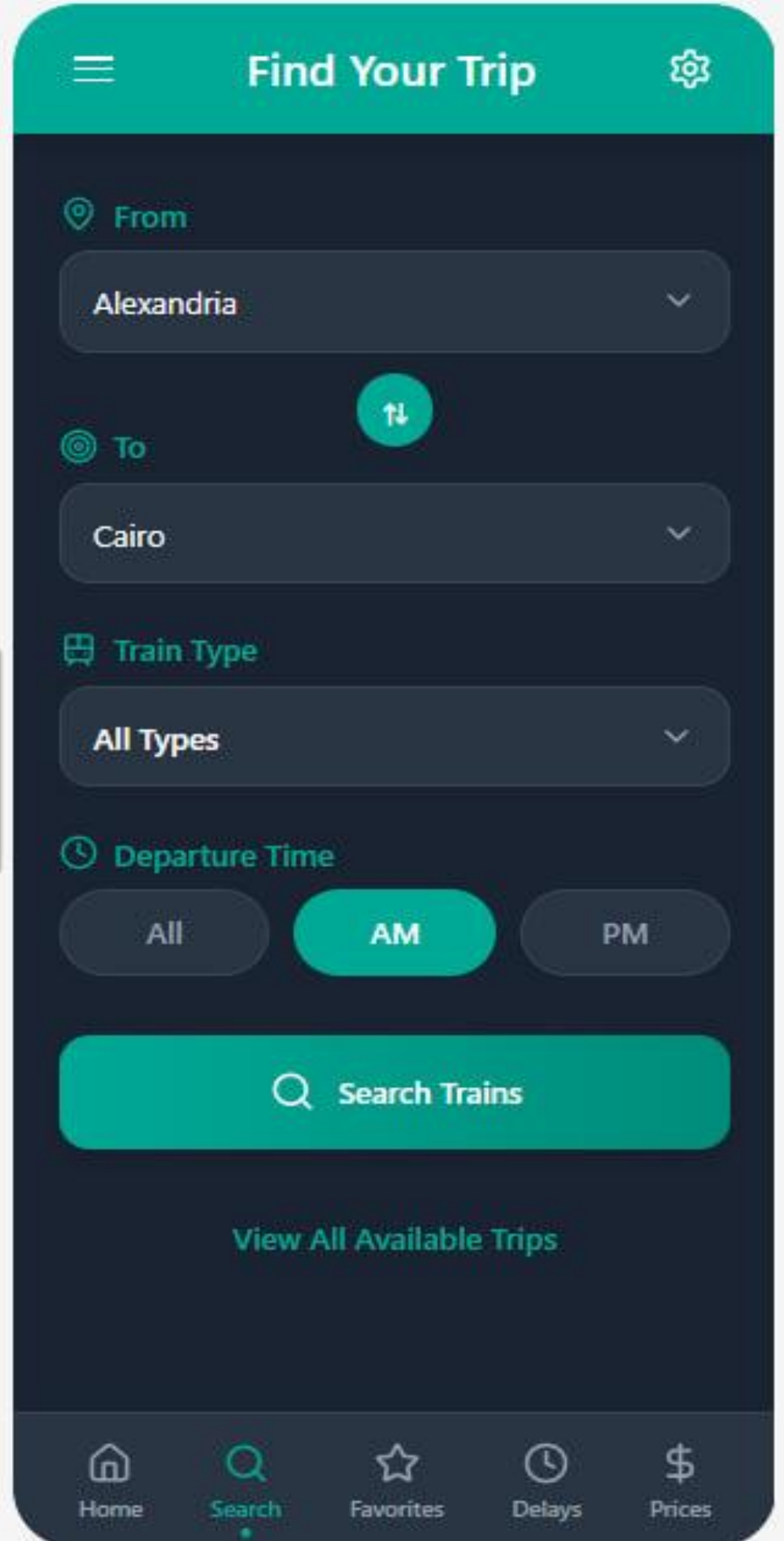• Large empty space with no useful content
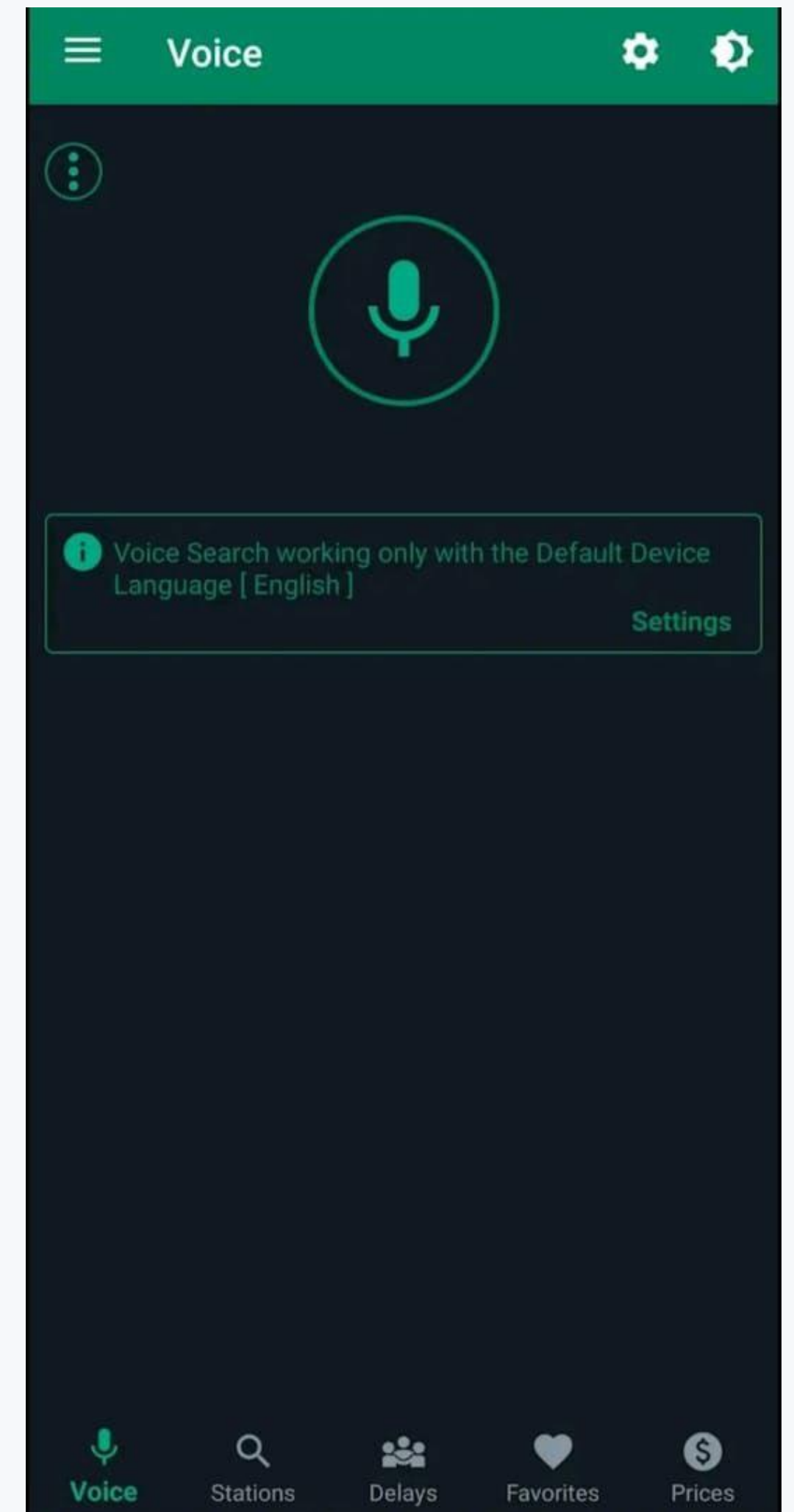
New Design
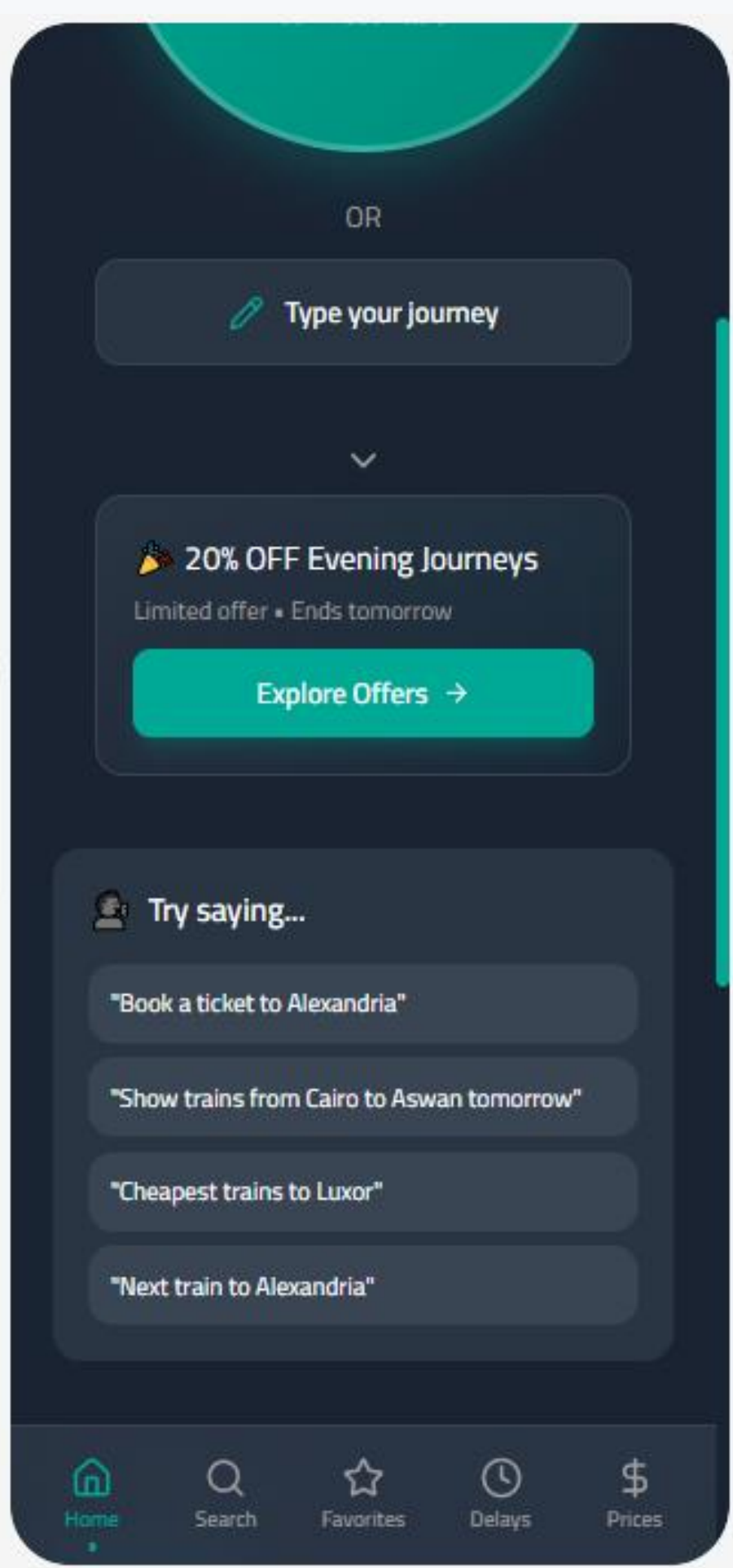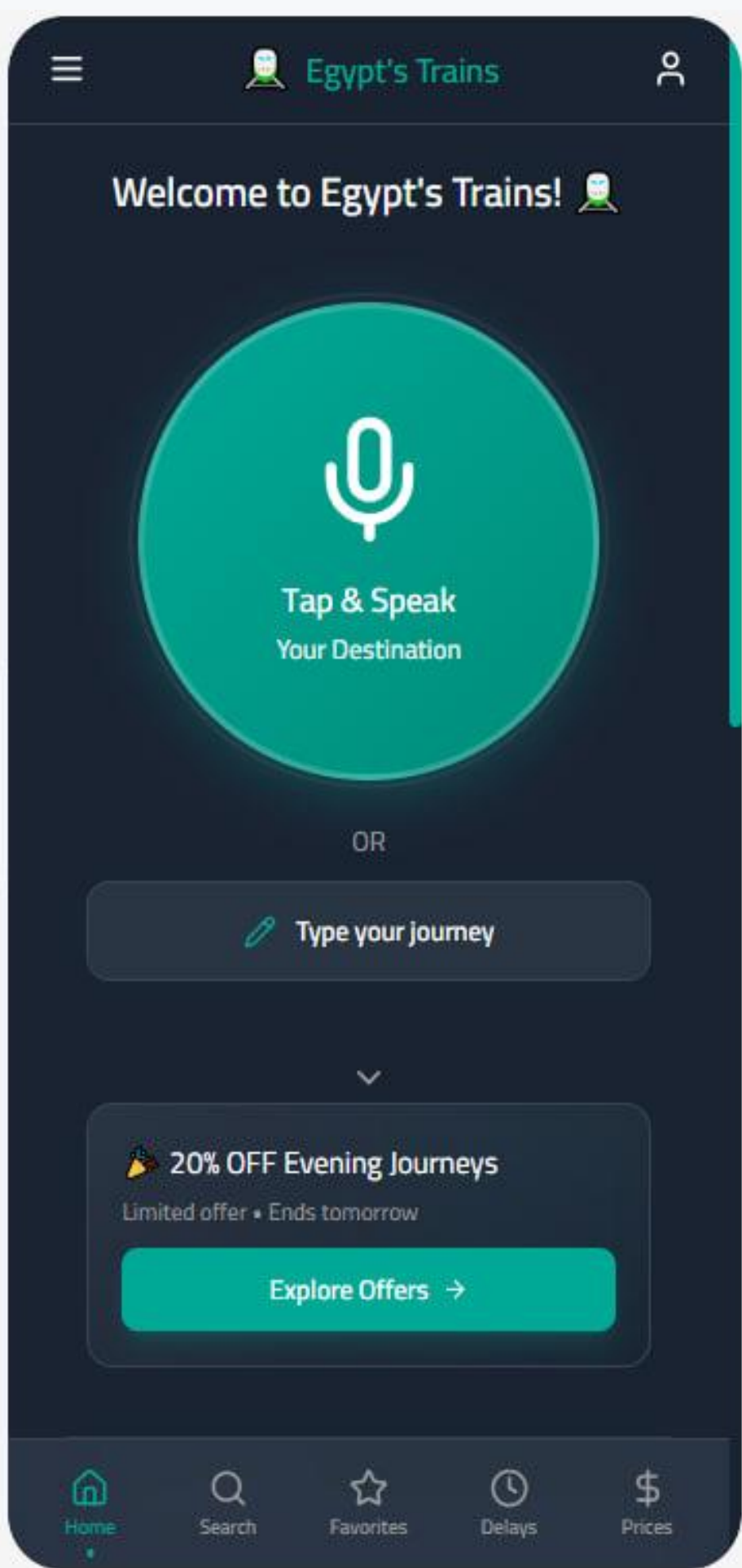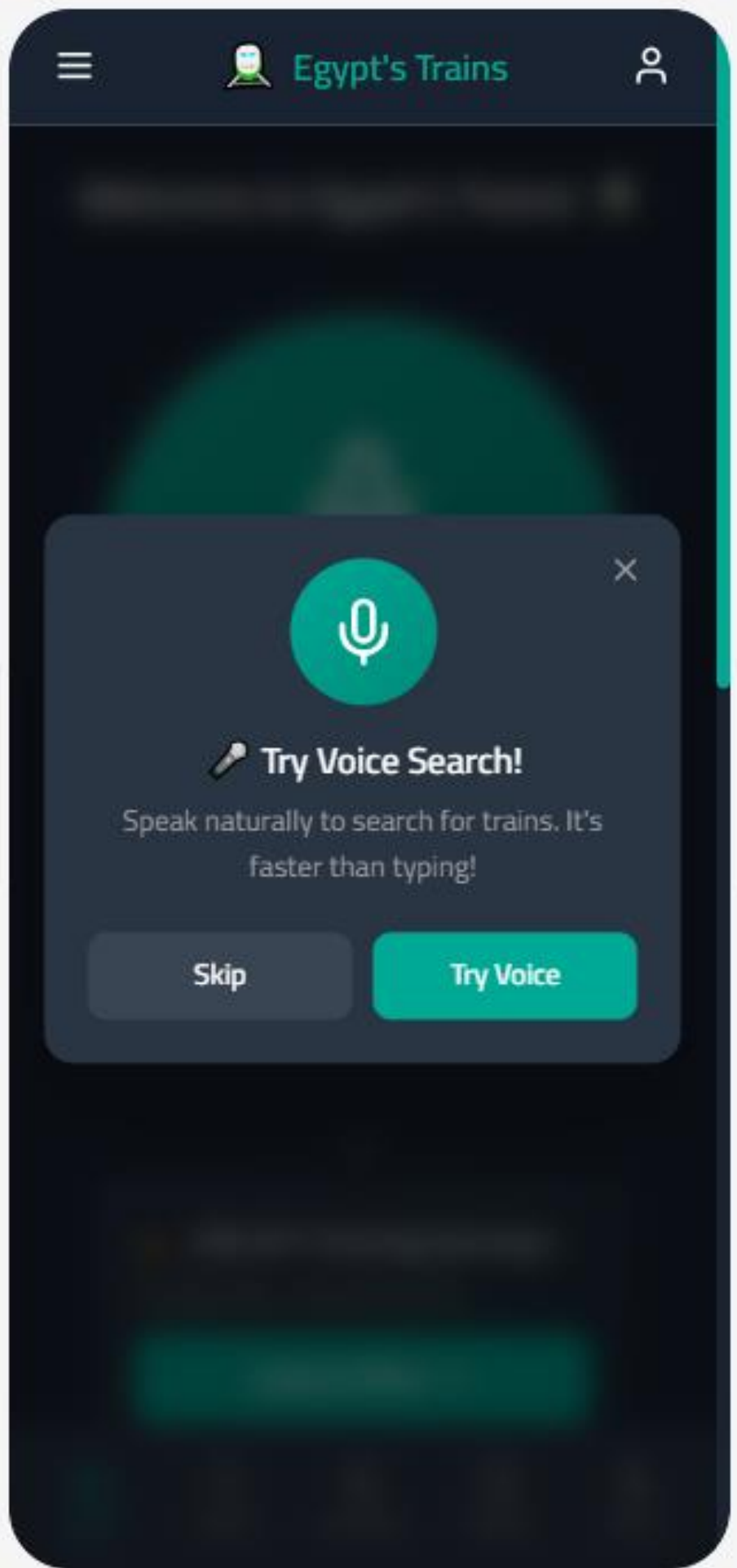
New Design

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

Stations

Are you in Cairo?, Display All Travels   Display

Go to Travels Search

Departure:Cairo

Destination:Alexandria

Air Conditioned - VIP - Russian -
Russian Air Conditioned - Talgo

◉ All   ○ AM   ○ PM

SEARCH

Voice   Stations   Delays   Favorites   Prices

New Design

Find Your Trip

From

Alexandria

To

Cairo

Train Type

All Types

Departure Time

All   AM   PM

🔍 Search Trains

View All Available Trips

Home   Search   Favorites   Delays   Prices
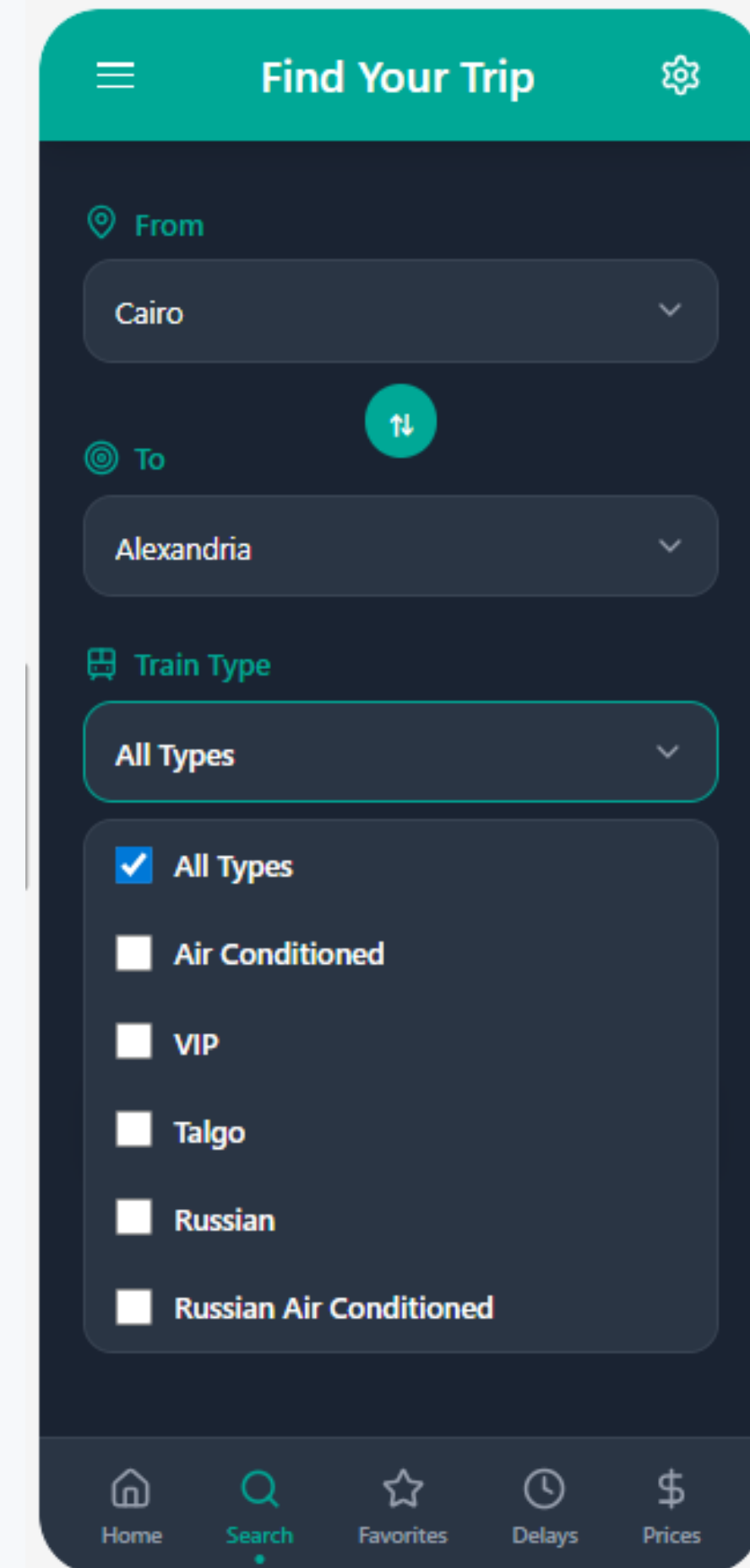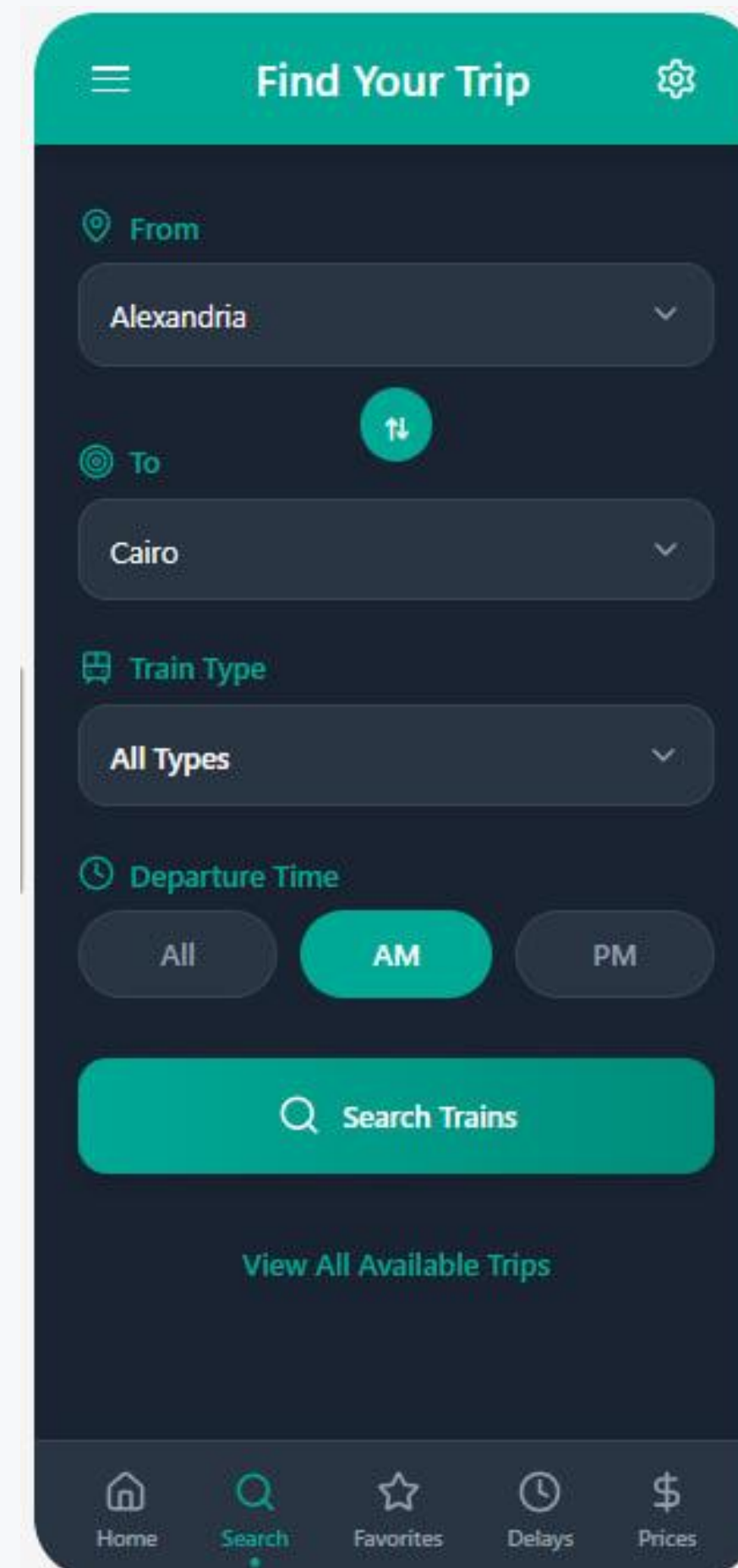
Old Design

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.
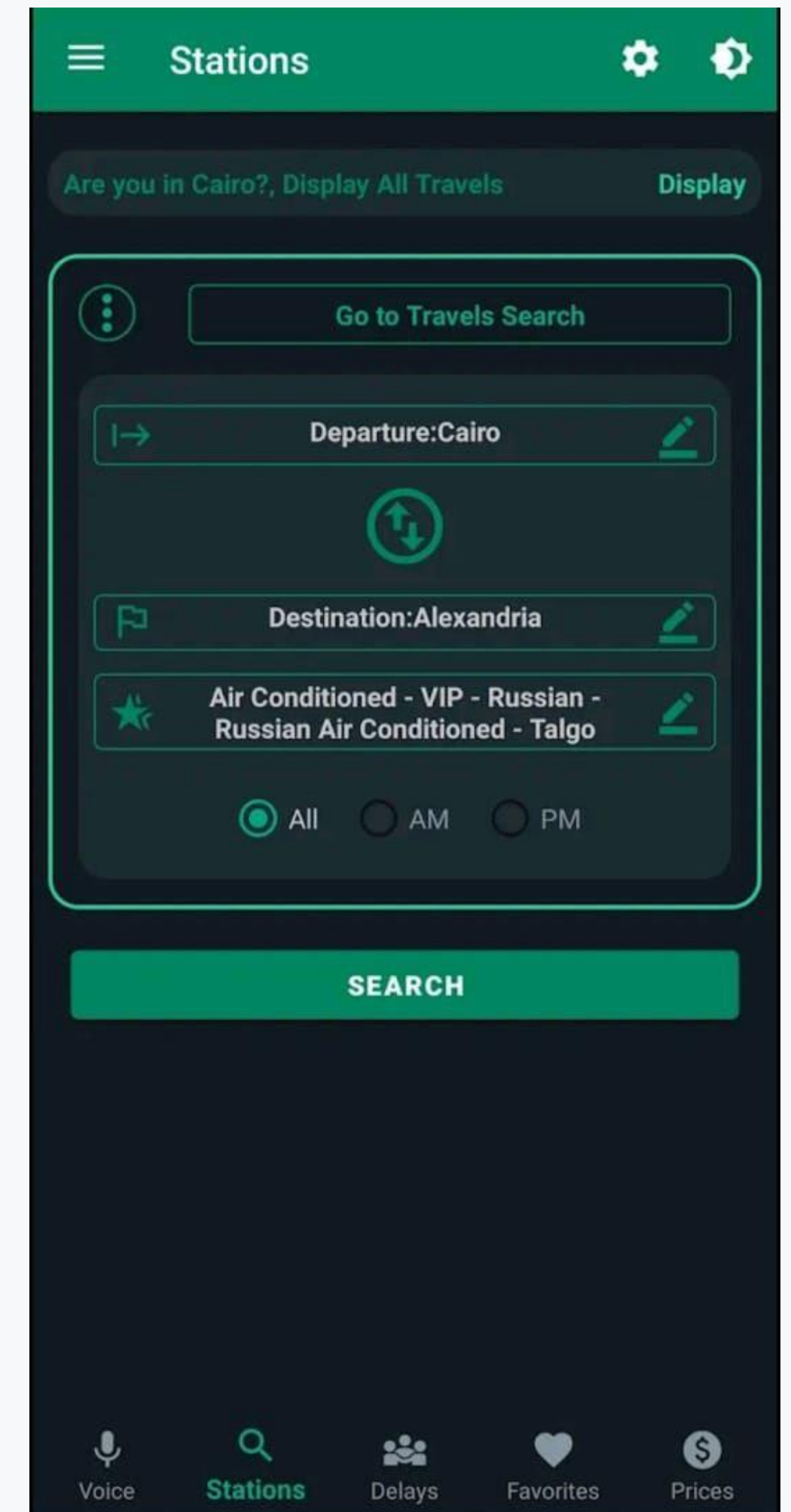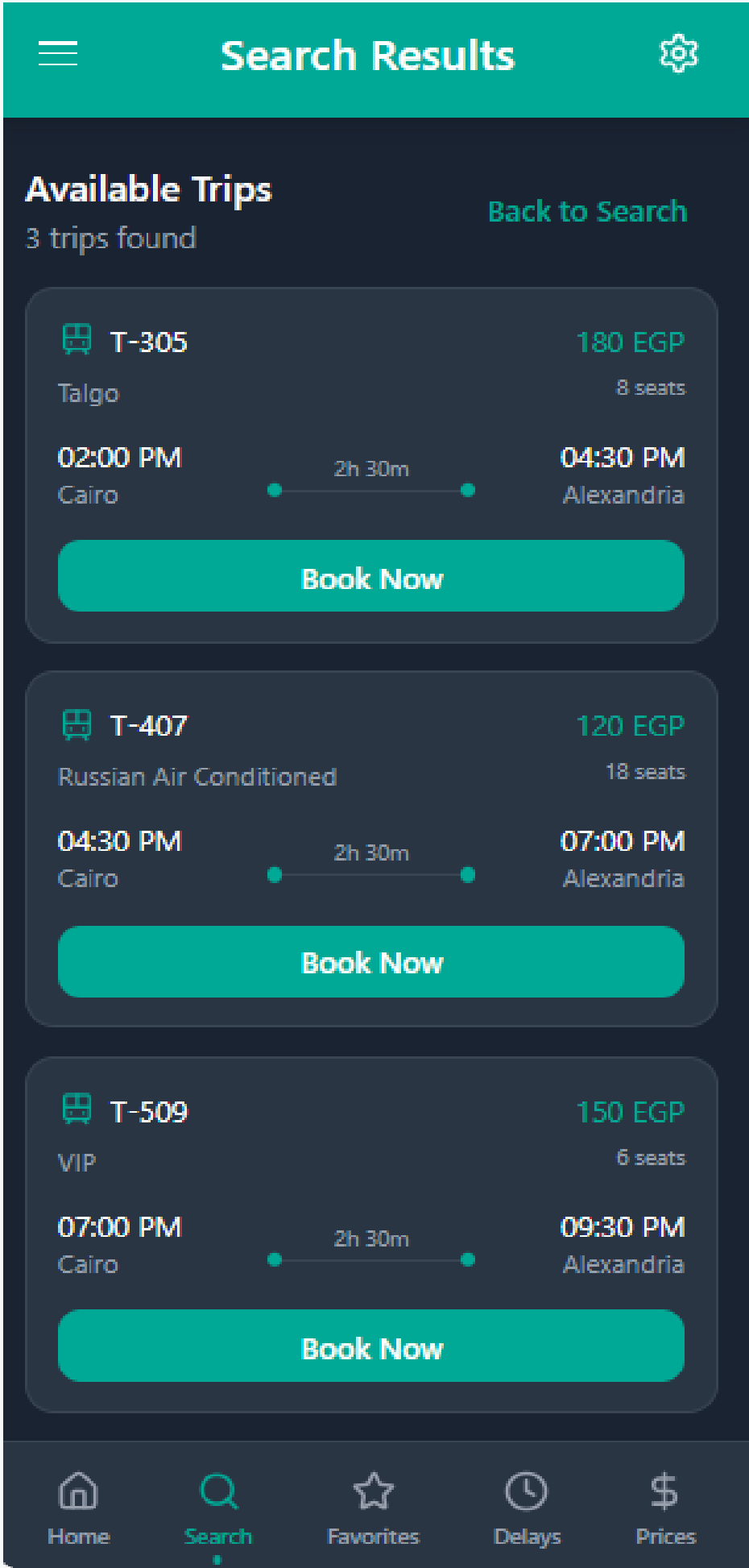
New Design

Key Improvements
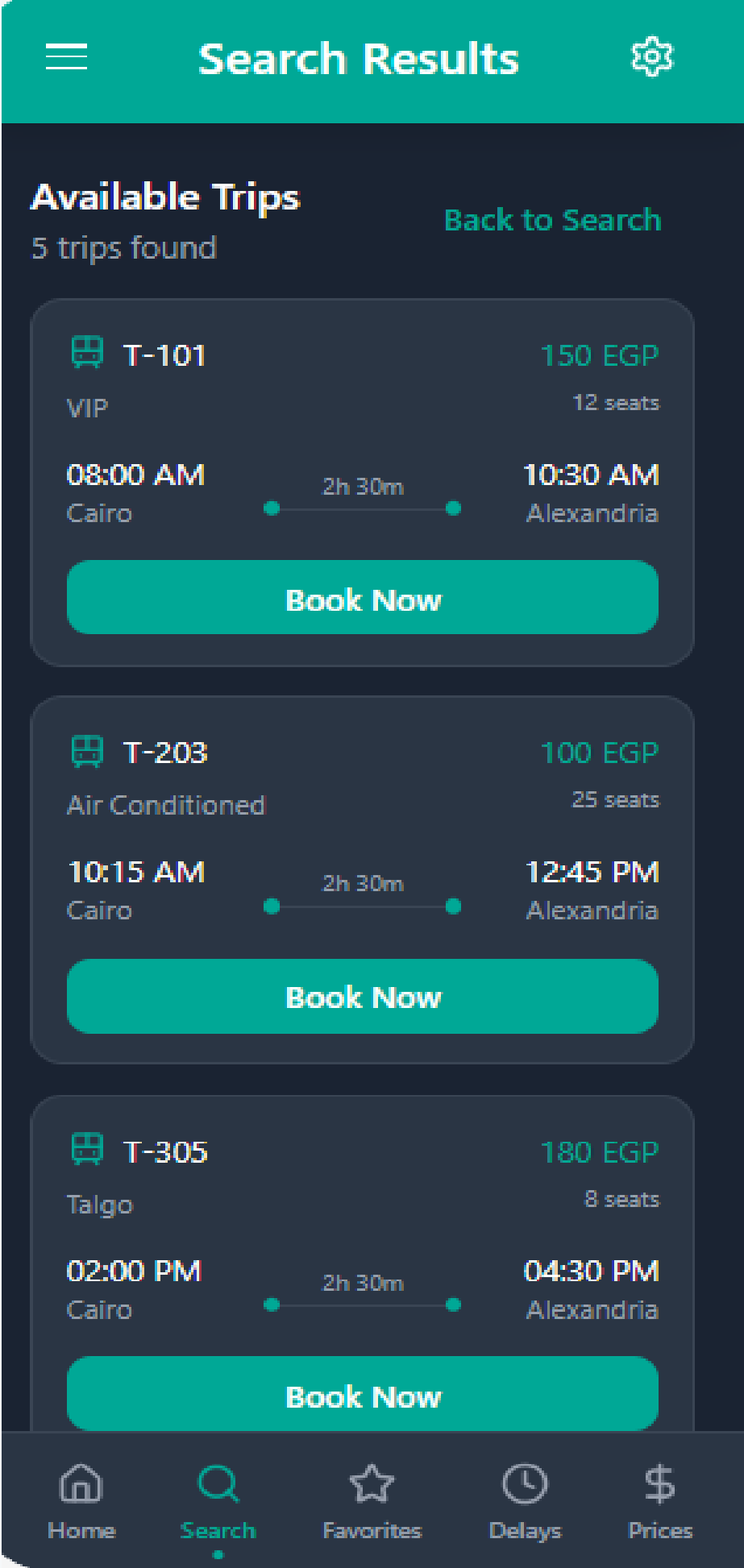
-Much better user experience

-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

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
5 trips found — Back to Search

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

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

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

Home · Search · Favorites · Delays · Prices

Search Results

Available Trips
3 trips found — Back to Search

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

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

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

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
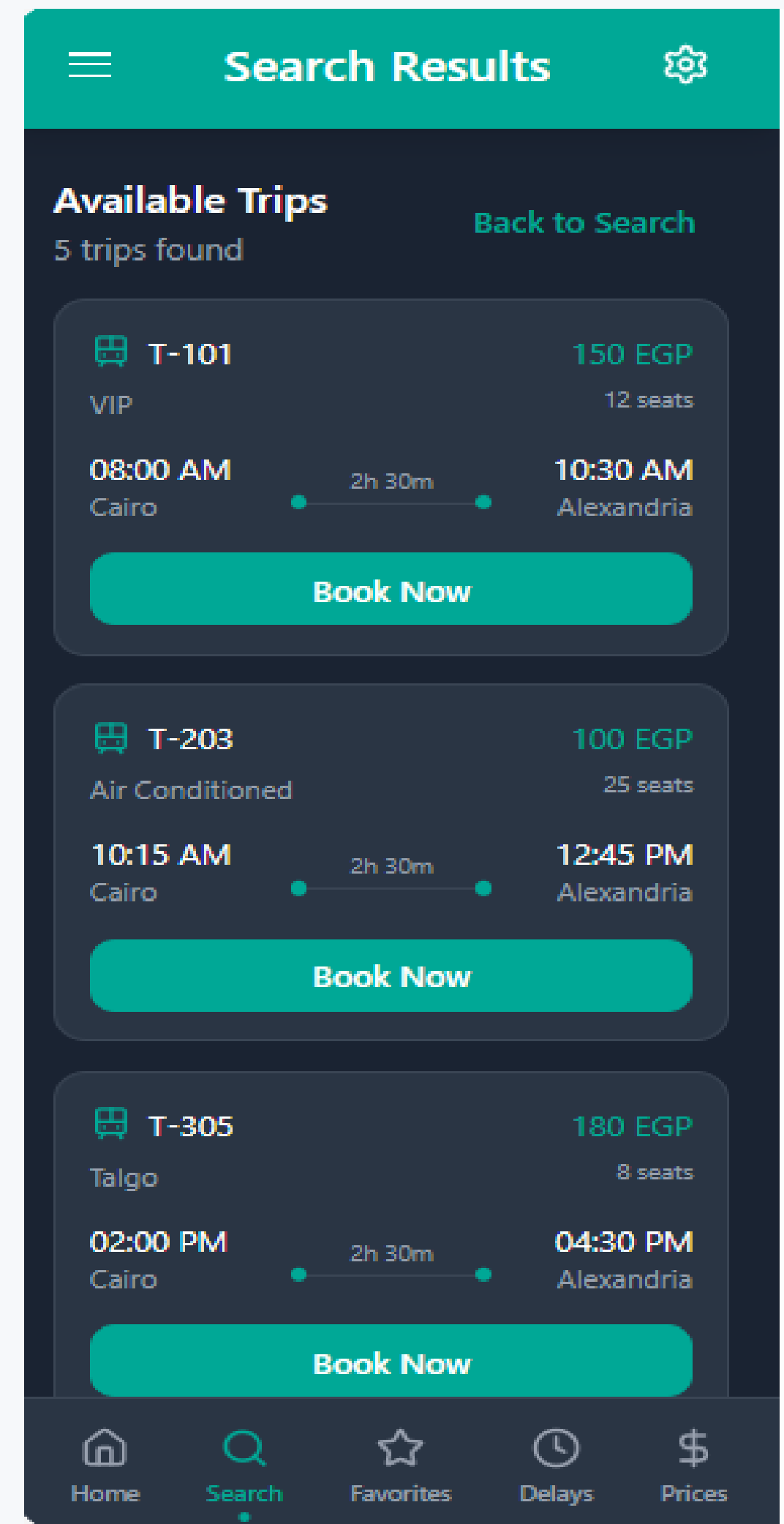
Old Design
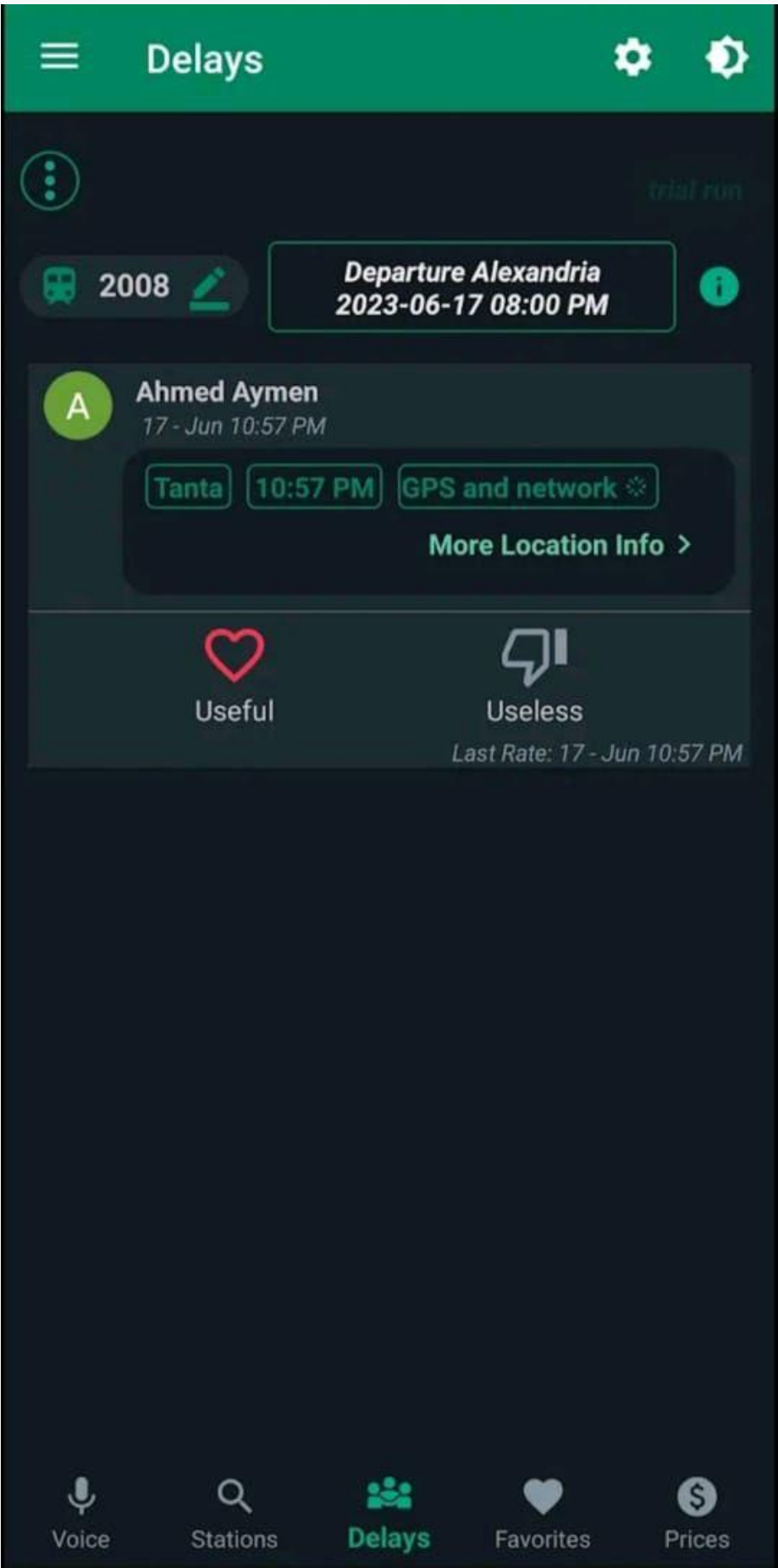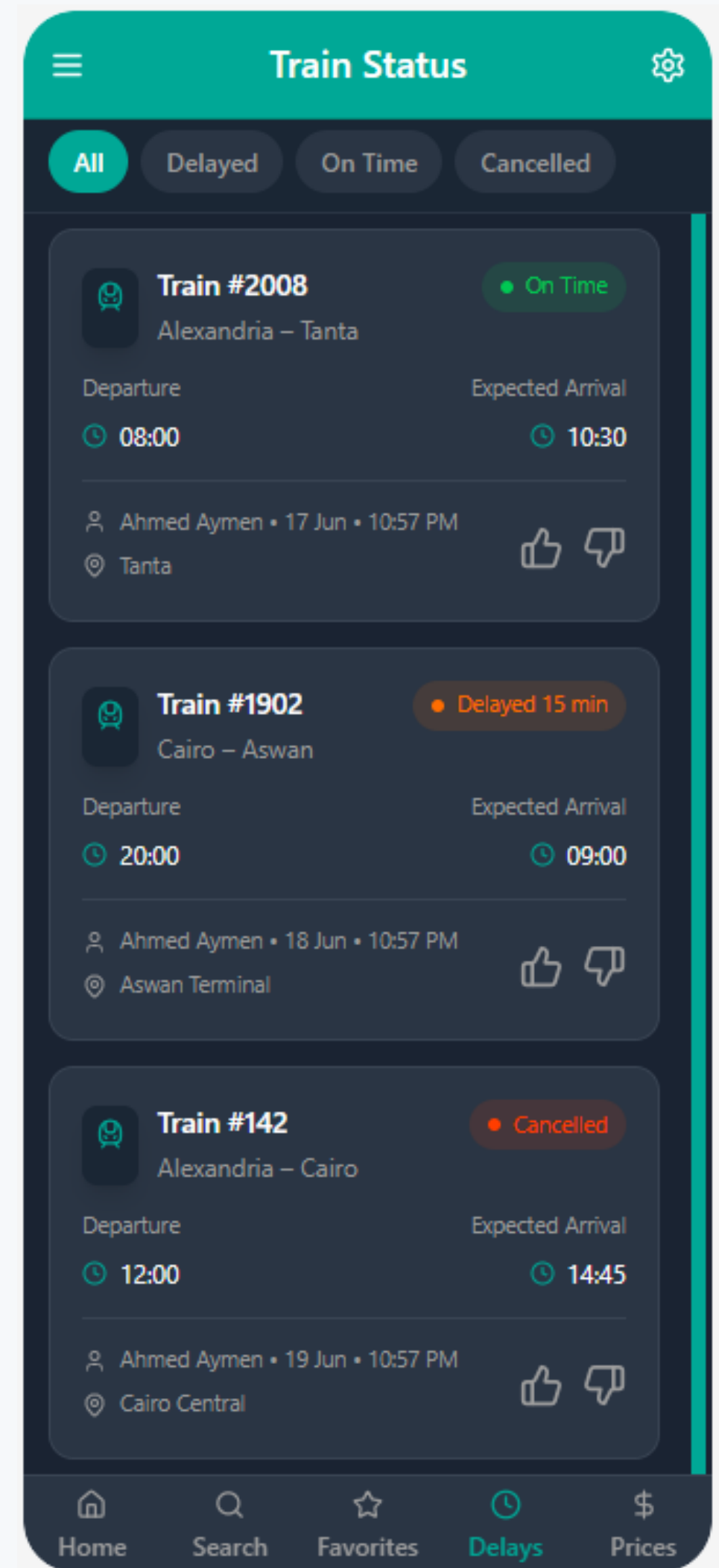
New Design
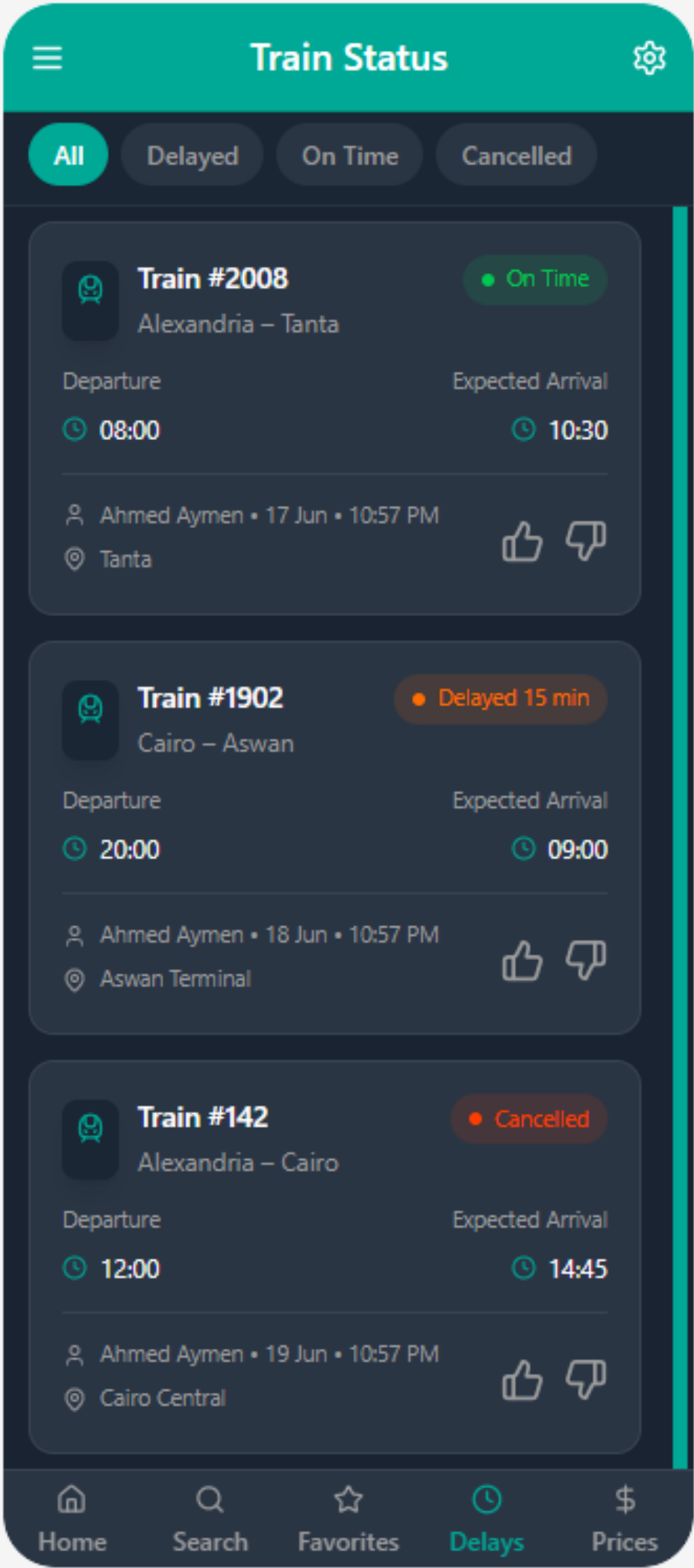
Old Design

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
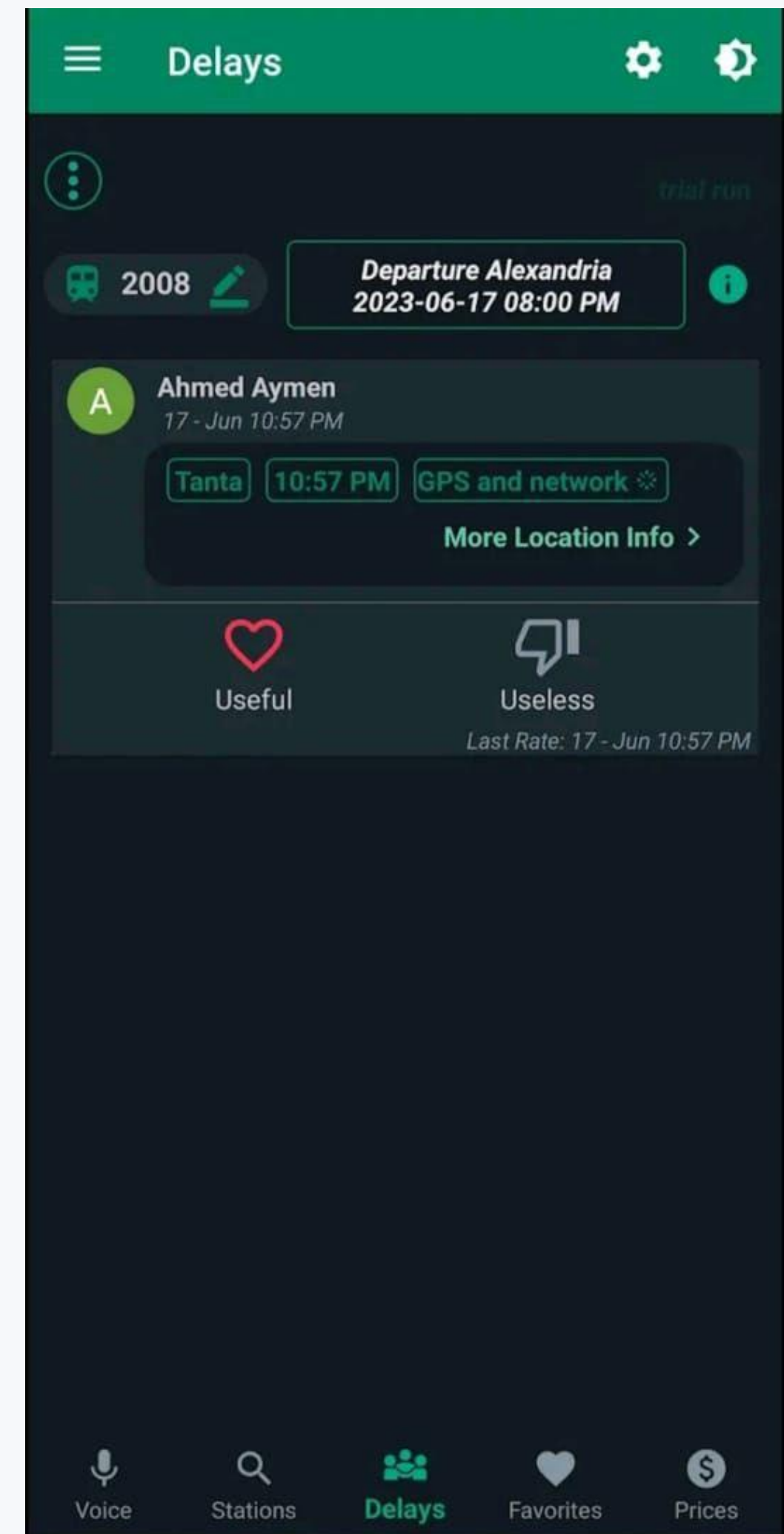
New Design

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.
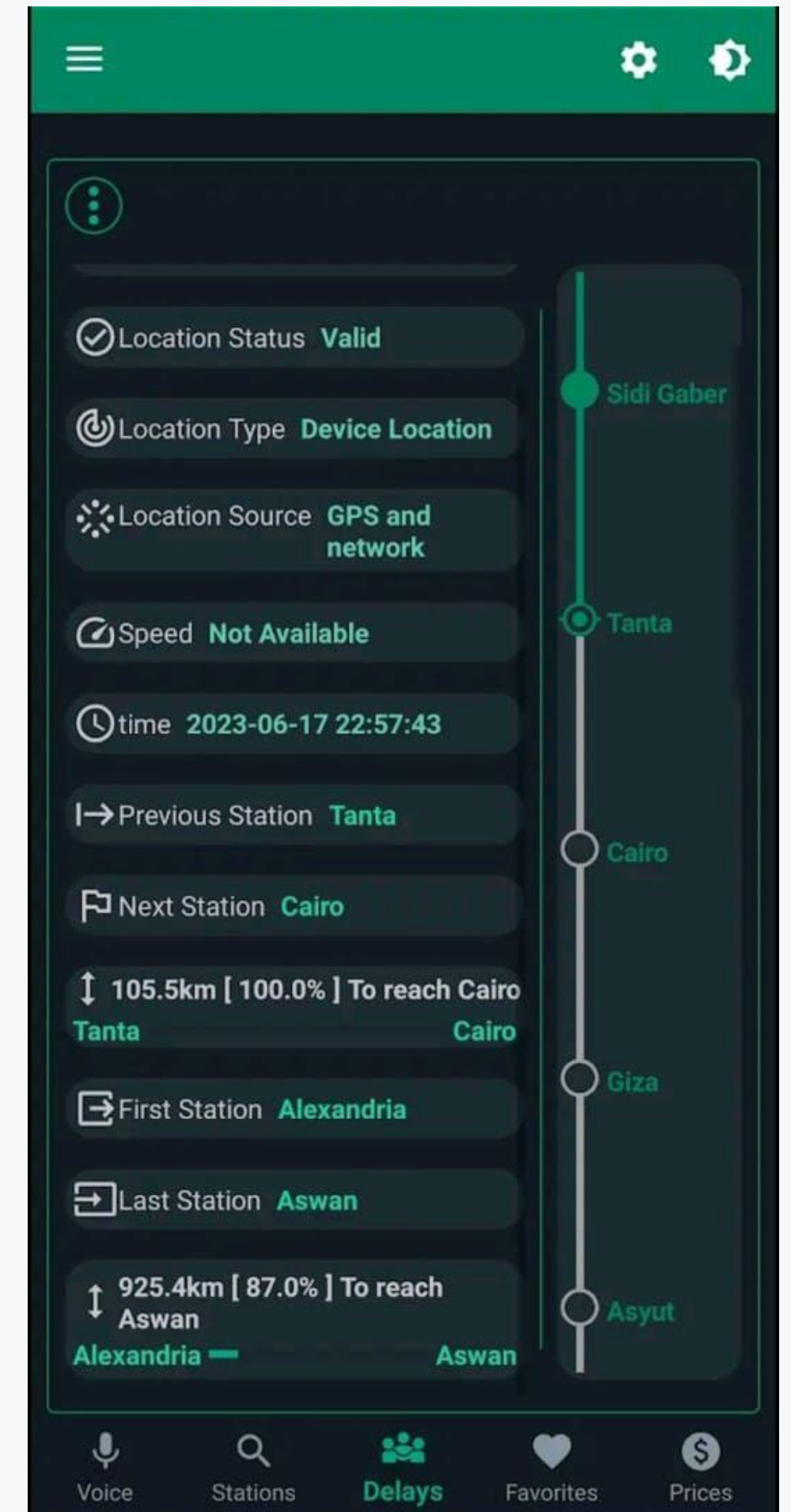
- Helpful notes and feedback sections.

Old Design
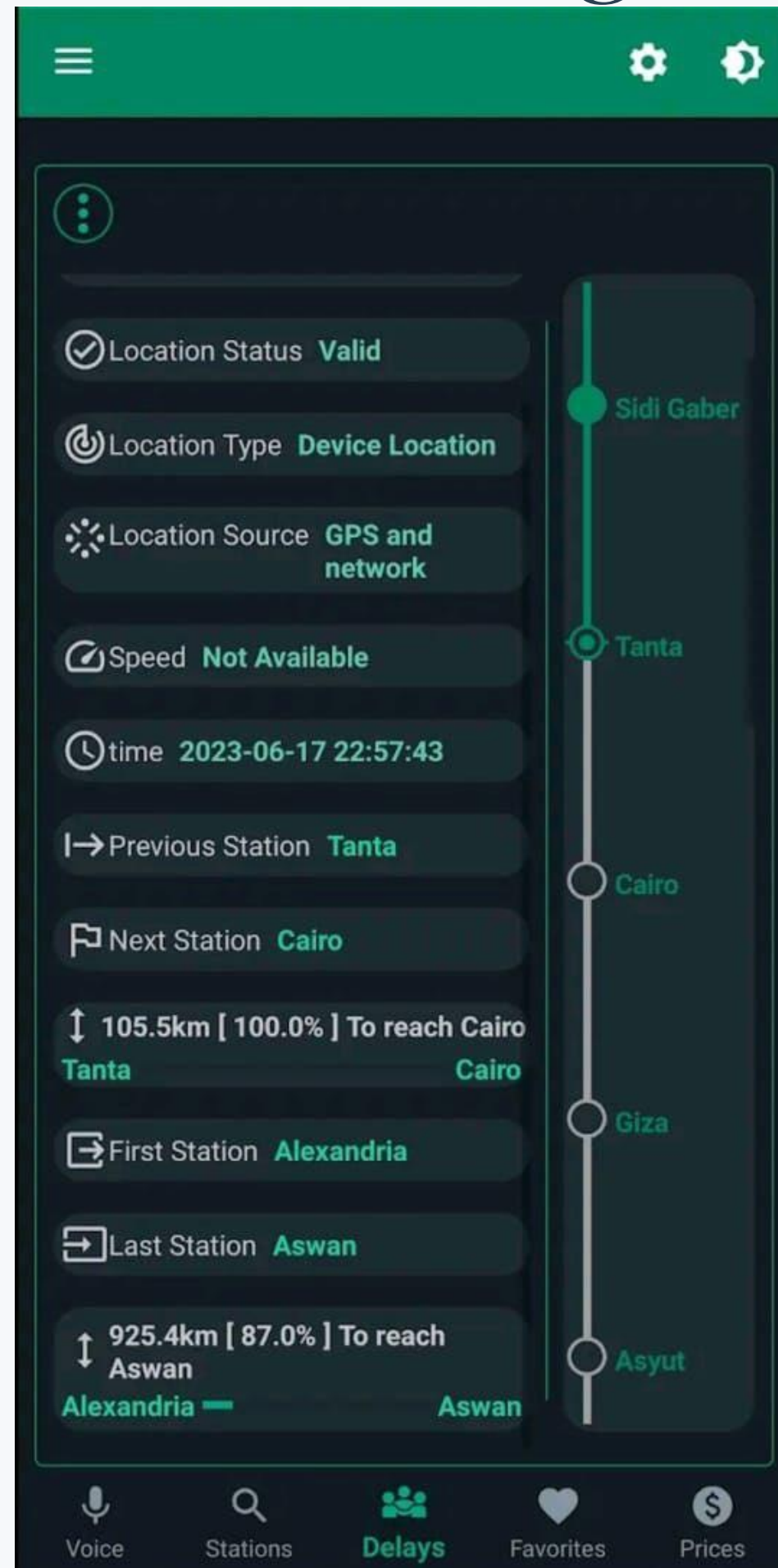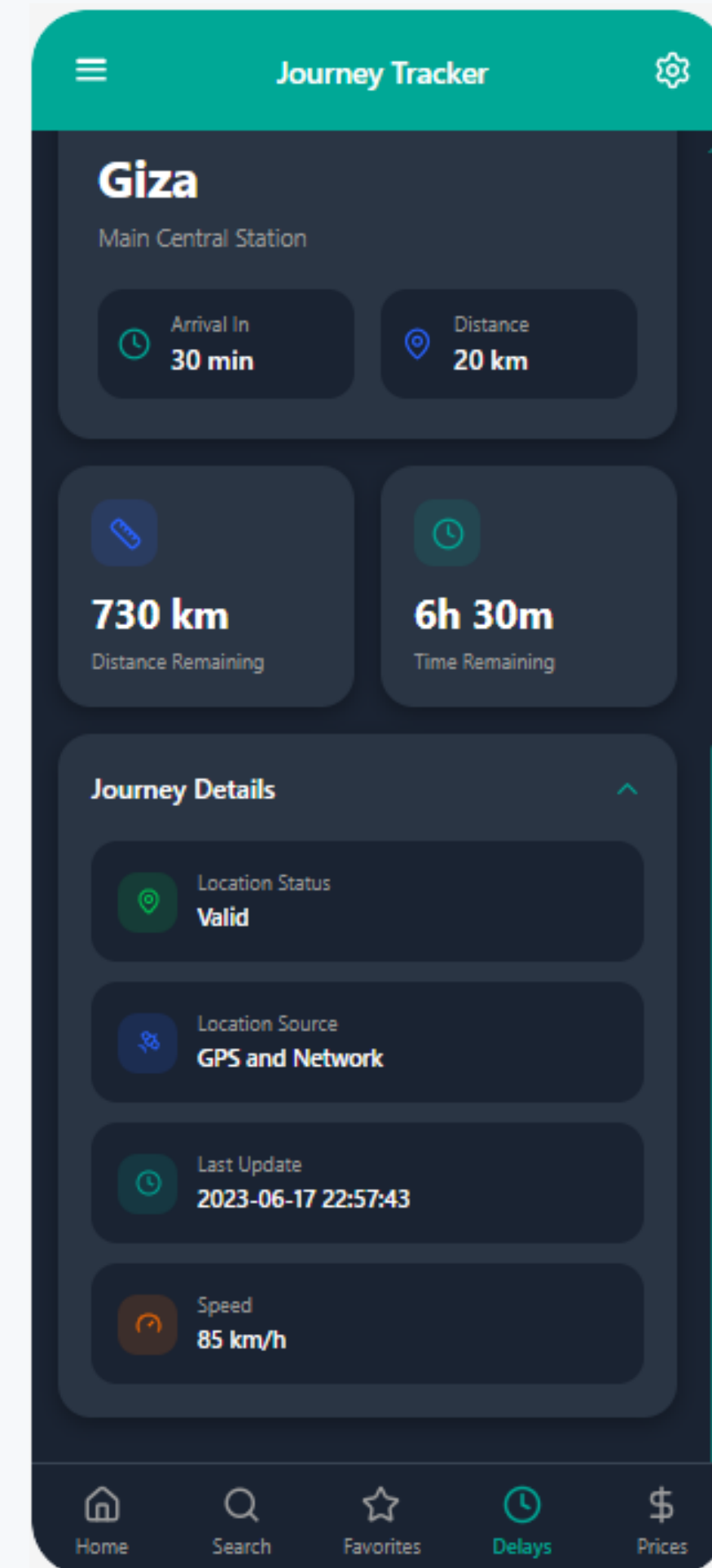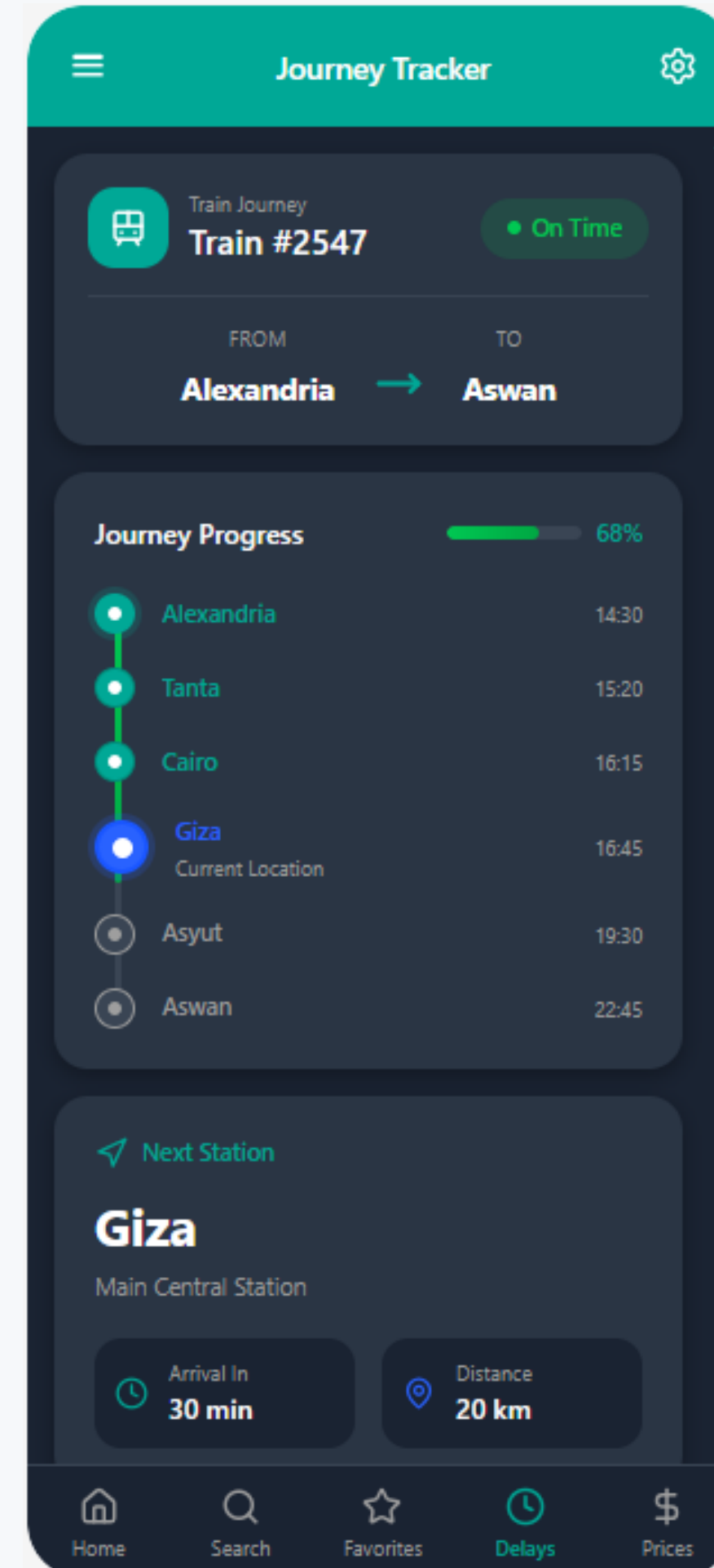
New design
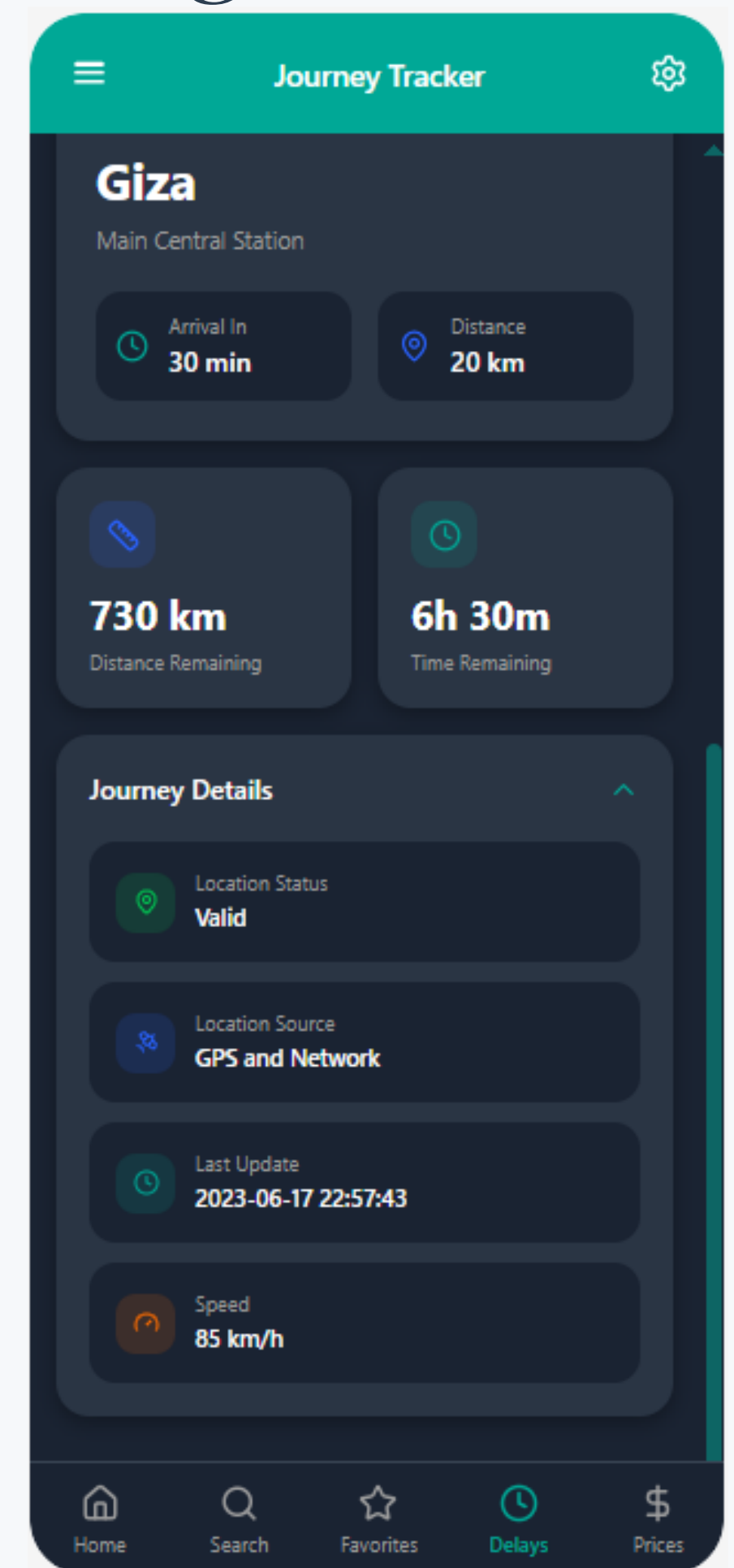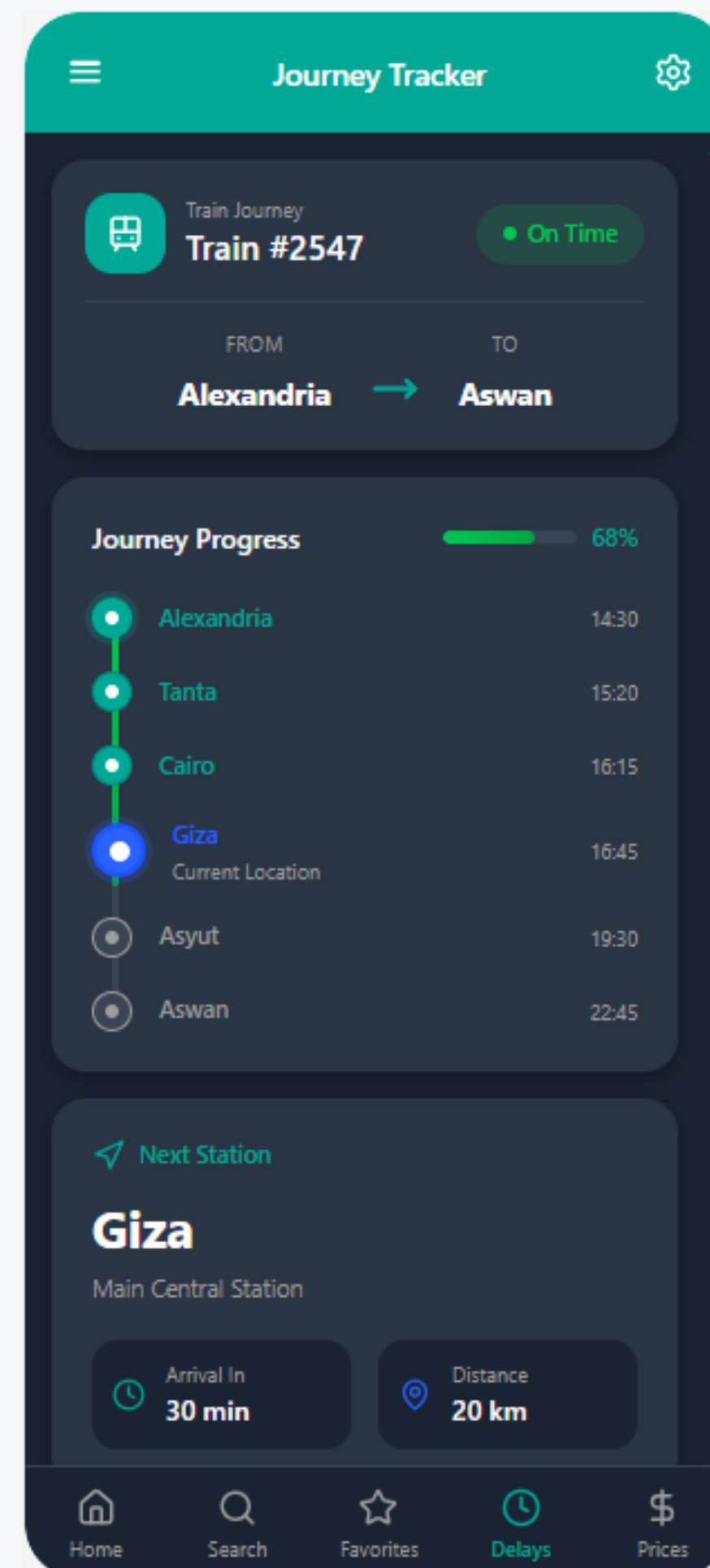
Old Design

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

Tickets Prices

Travel	833
Class	ثالثة تهوية-روسي
Ticket window	20 EGP
Online	20.80 EGP
On the Train	70 EGP
Financial rounding	+/- 5 EGP

Share in improving Result   COMMENT

Voice   Stations   Delays   Favorites   Prices

New Design

Ticket Prices

Train #833 • Third AC - Russian

Select:

○ At Station	20 EGP
● Online	20.8 EGP
○ On Train	70 EGP

Selected: Online

Price:	20.8 EGP
Fee:	Included
Financial rounding:	±5 EGP

CONFIRM SELECTION

Feedback
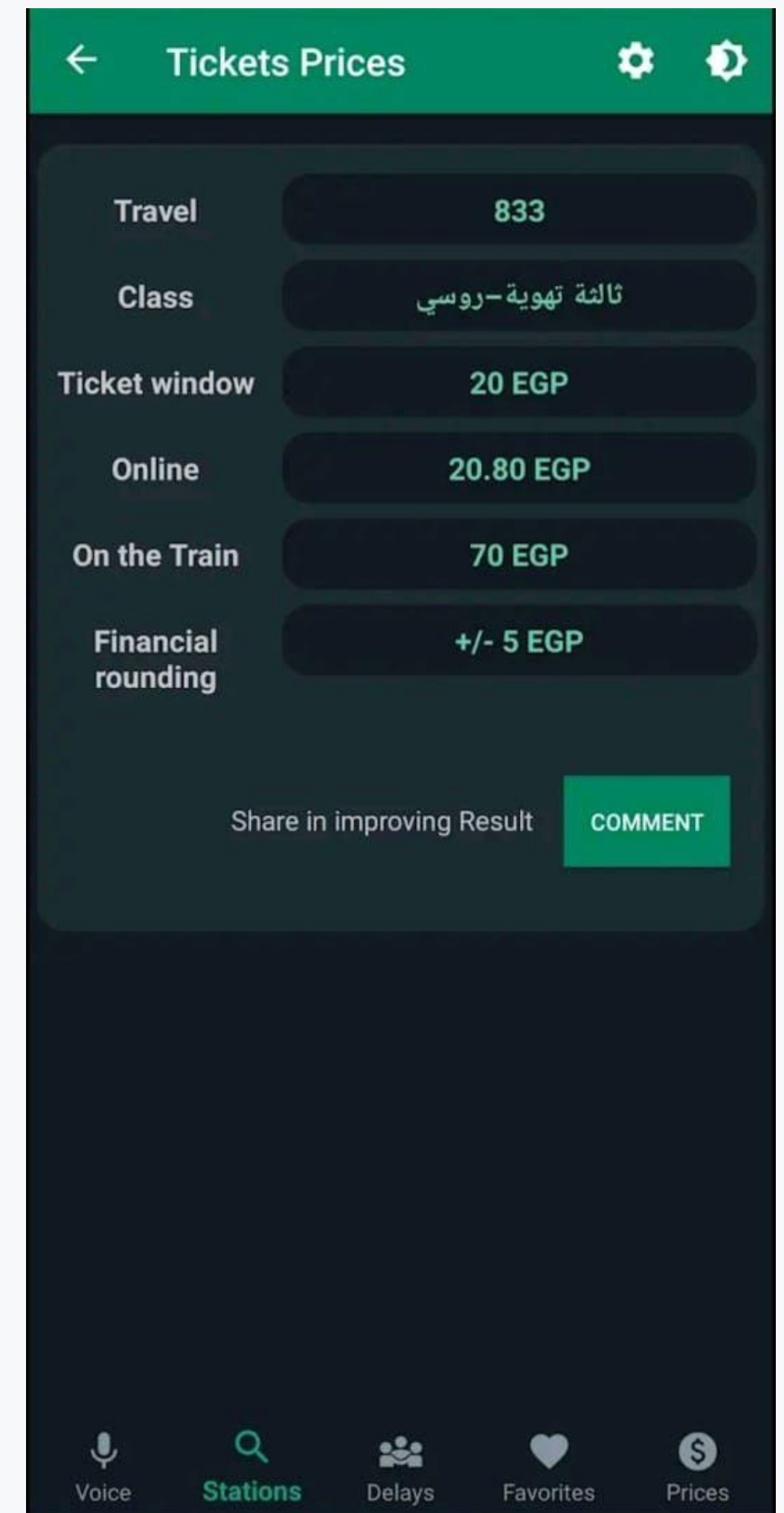
comment

Home   Search   Favorites   Delays   Prices
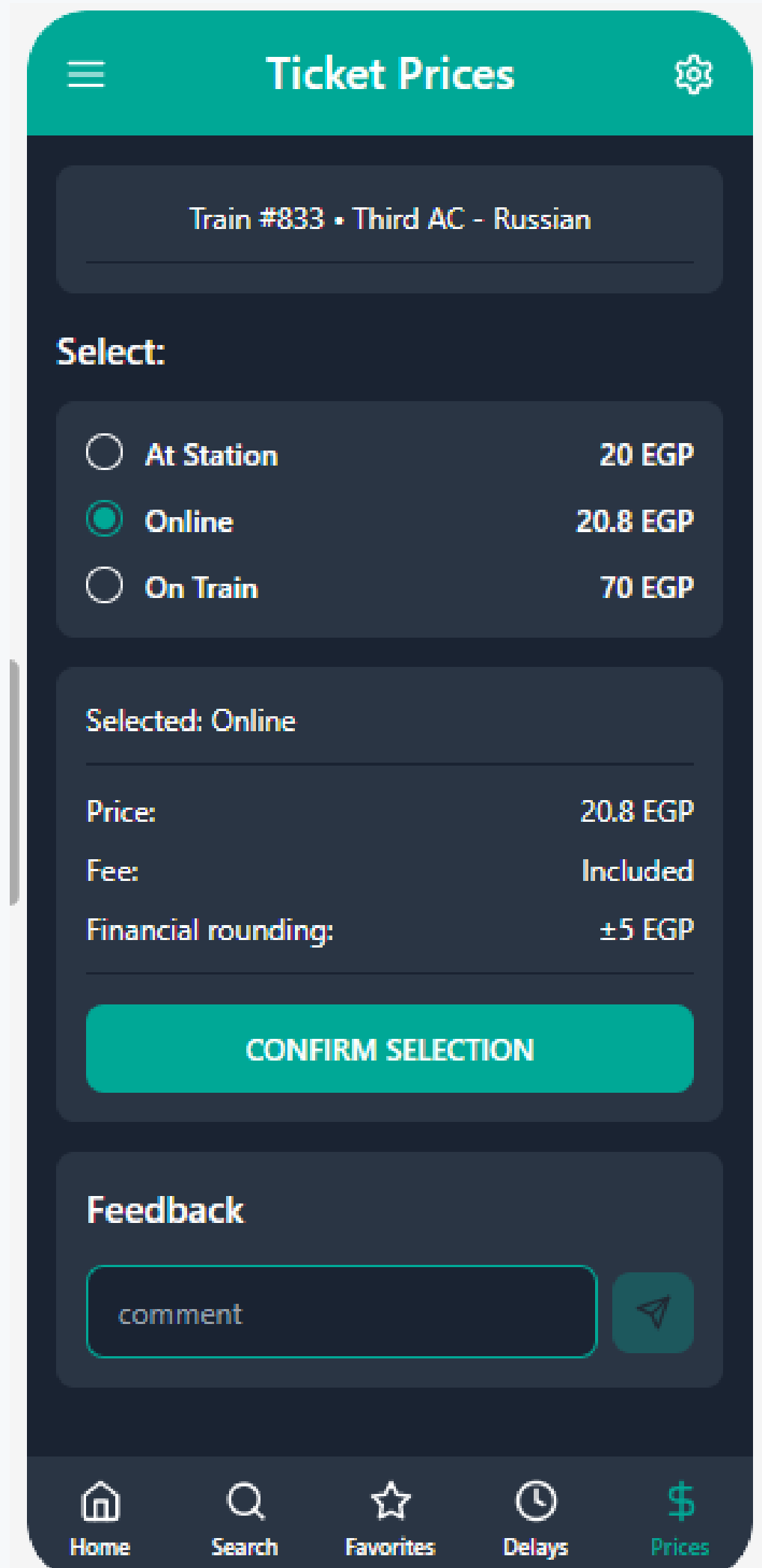
Old Design

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.
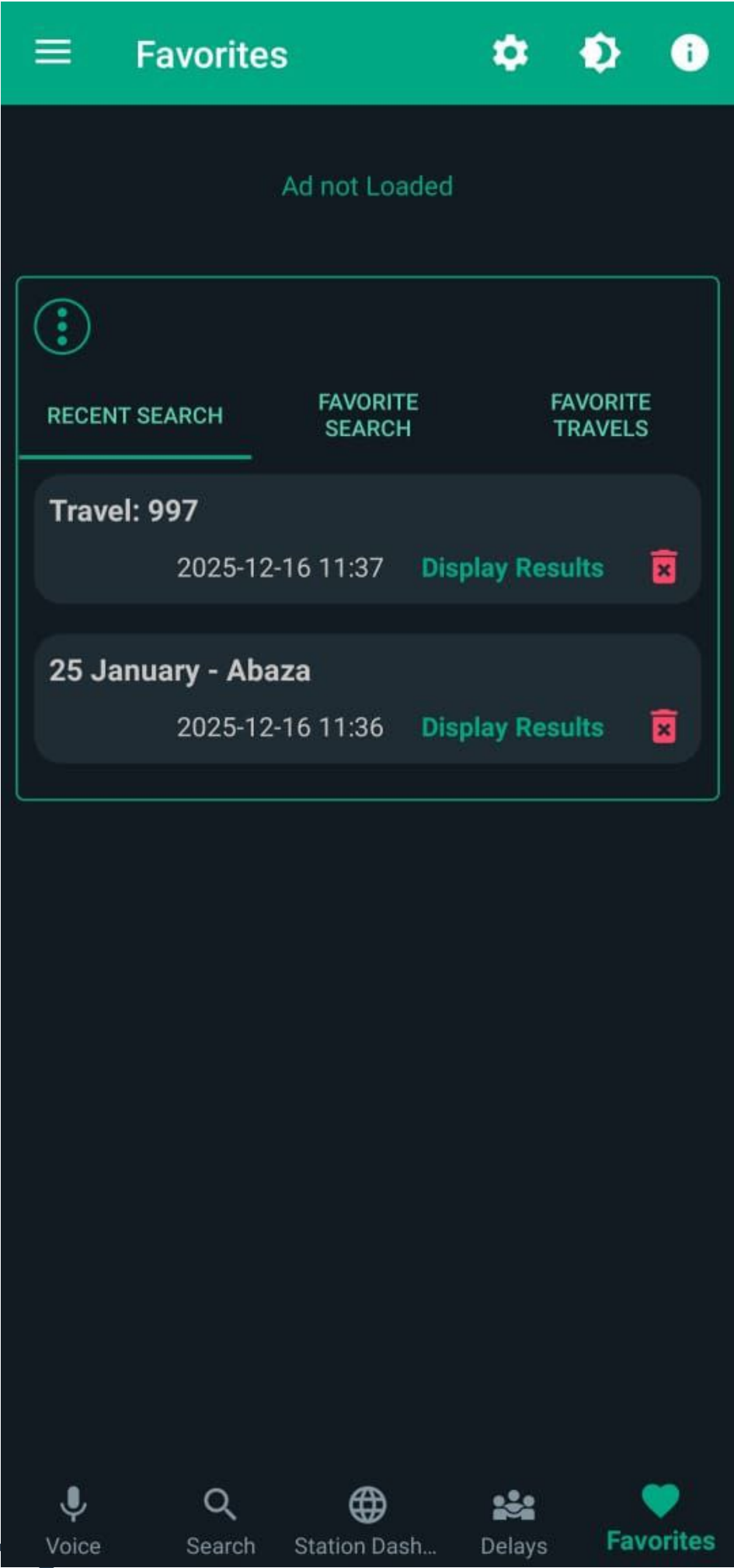
- Weak and tiring user experience.
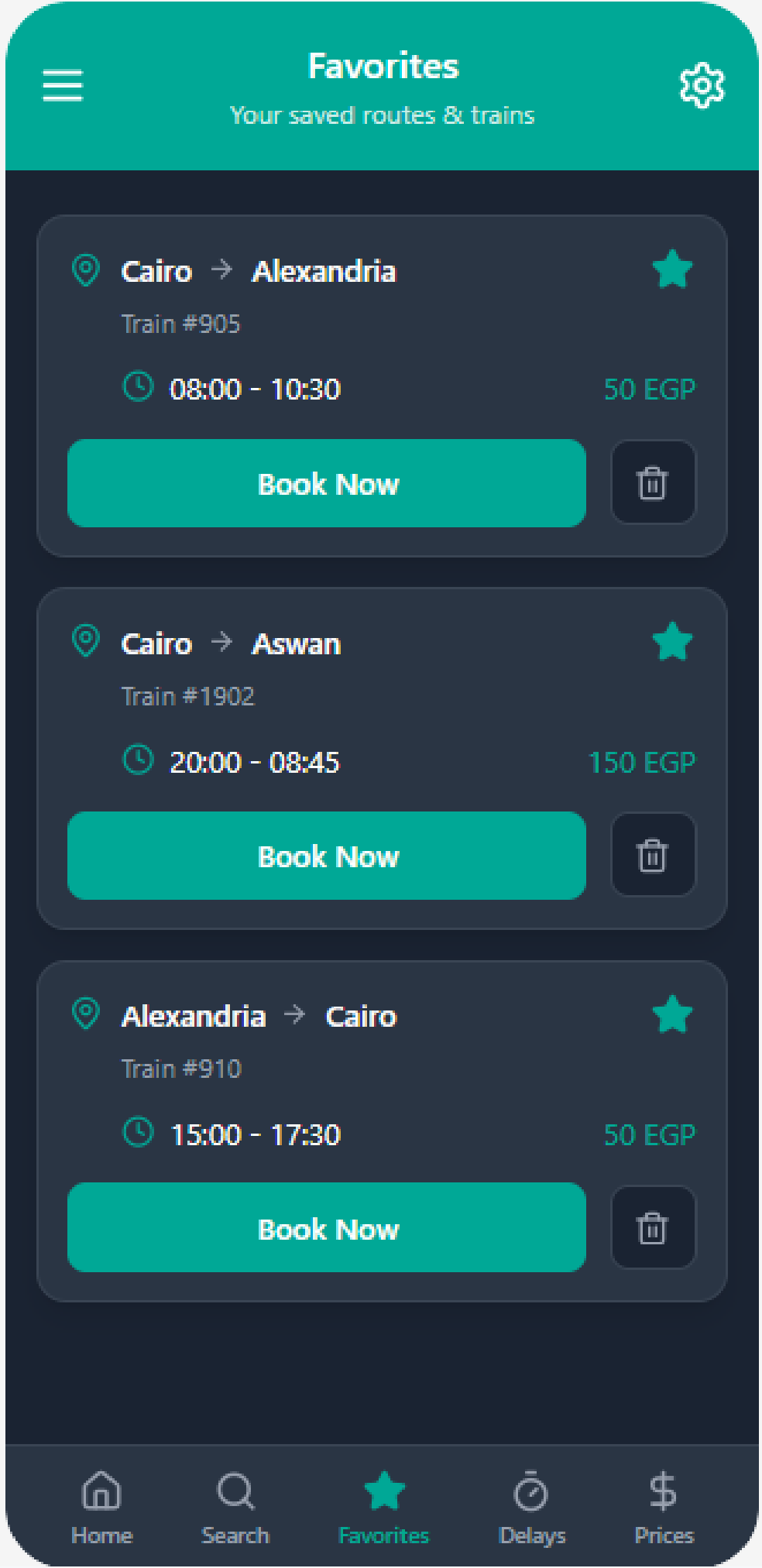
New Design

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.
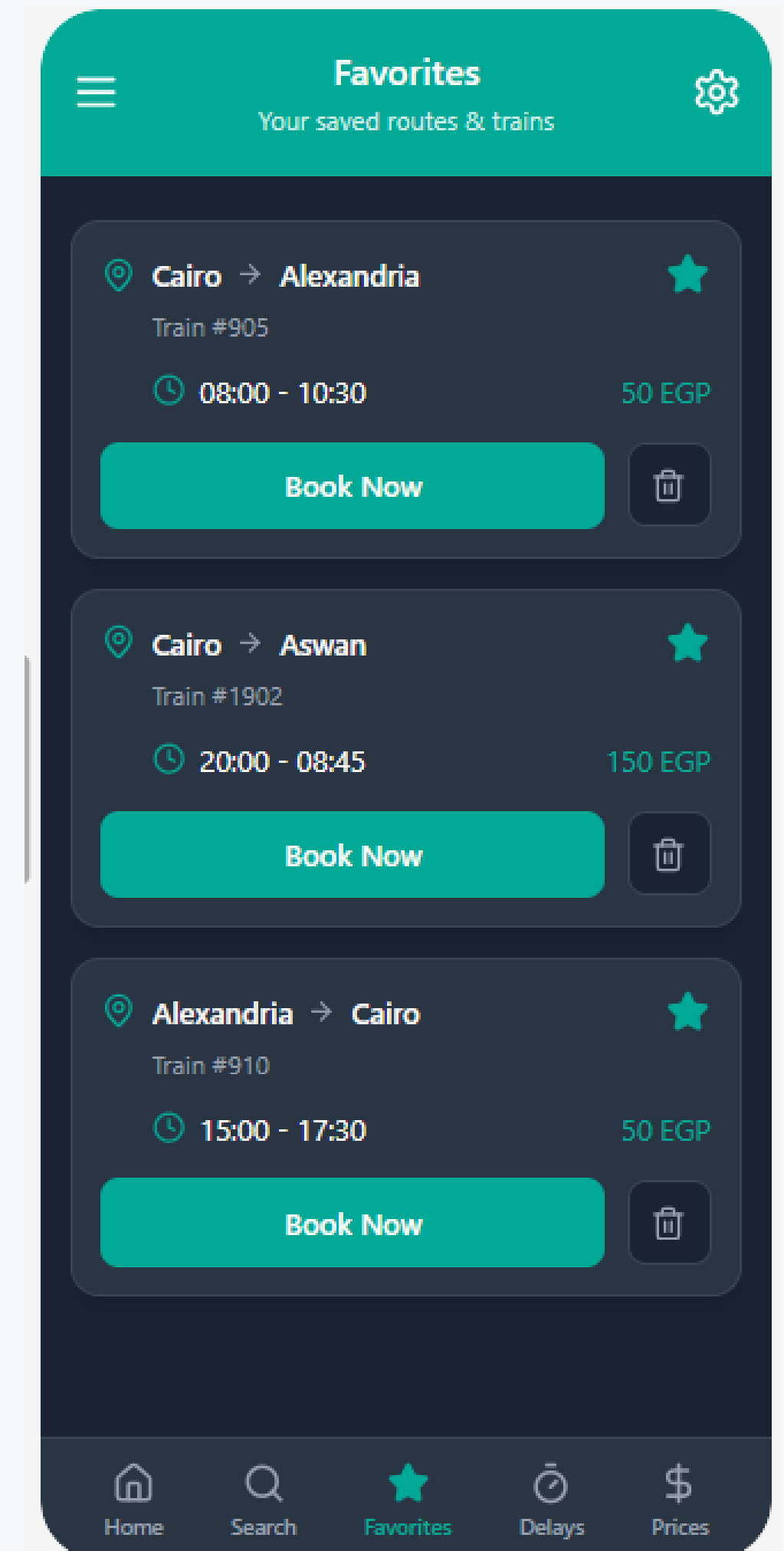
- Better overall user experience.

Old Design
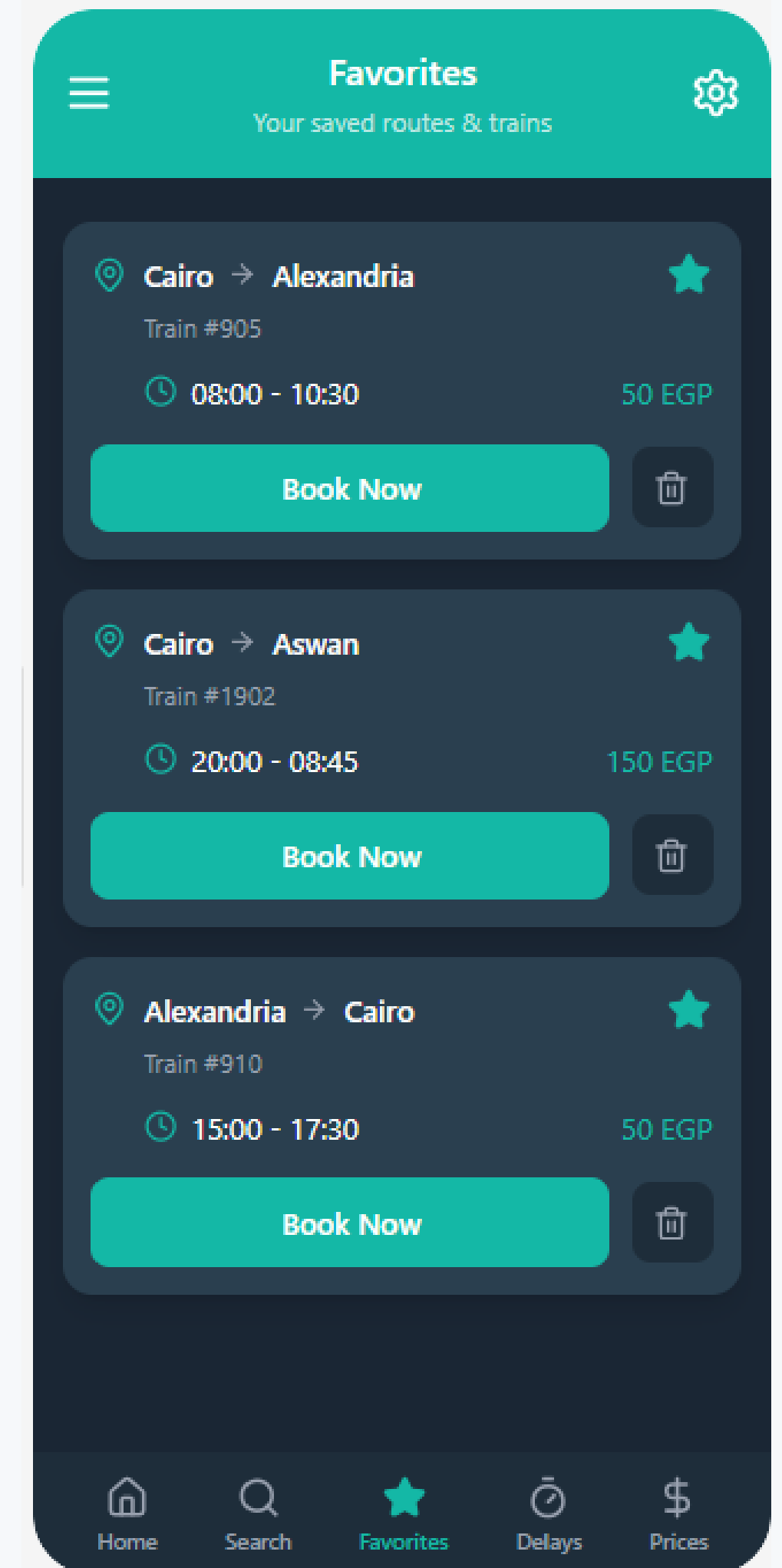

New Design

Old Design

Problems

- Text-heavy interface that is hard to scan quickly.

- Lack of clear interactive elements for booking or selection.

- Poor visual hierarchy with minimal formatting.

- Journey details (time, train number) are not clearly highlighted.
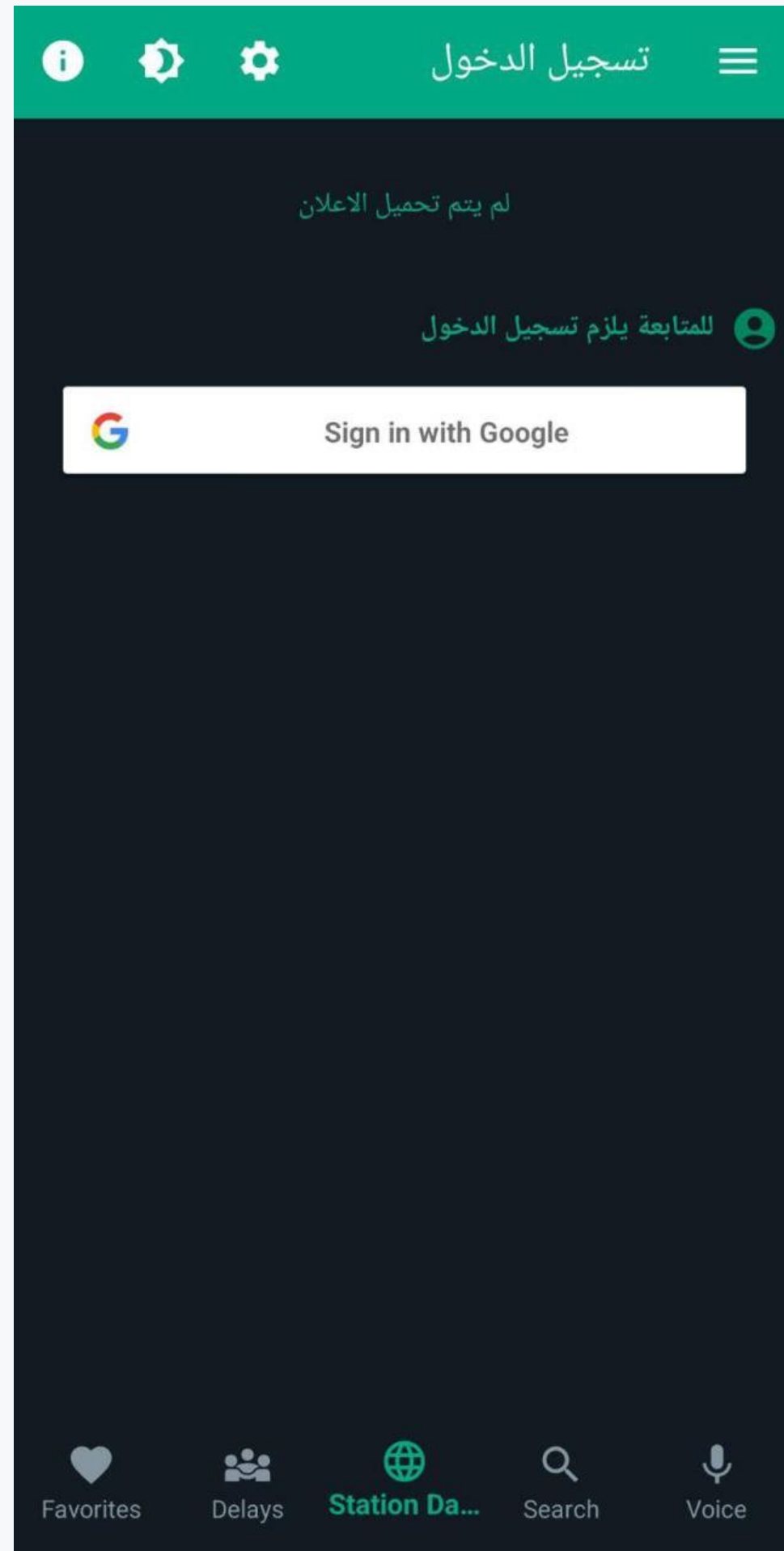
- Overall design feels outdated and less user-friendly.
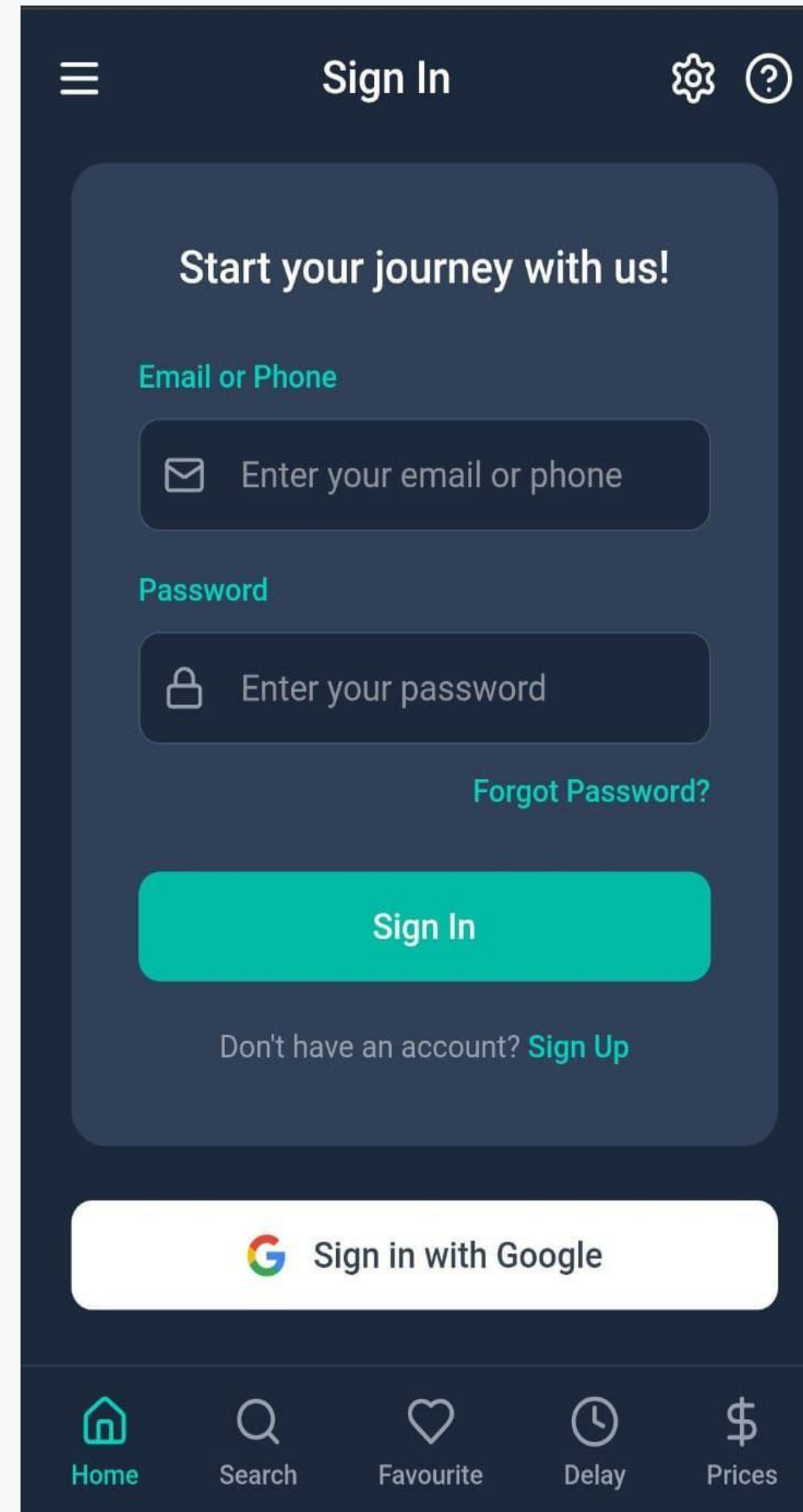
New Design

Key Improvements

- Clear and well-structured layout with separated journey blocks.

- Visible interactive elements such as Book Now buttons and checkboxes.

- Better visual timeline showing departure and arrival times.

- Modern and attractive design with proper spacing and typography.

- Booking status clearly displayed for each journey.

Favorites
Your saved routes & trains

Cairo → Alexandria
Train #905
08:00 - 10:30   50 EGP
Book Now

Cairo → Aswan
Train #1902
20:00 - 08:45   150 EGP
Book Now

Alexandria → Cairo
Train #910
15:00 - 17:30   50 EGP
Book Now

Home   Search   Favorites   Delays   Prices

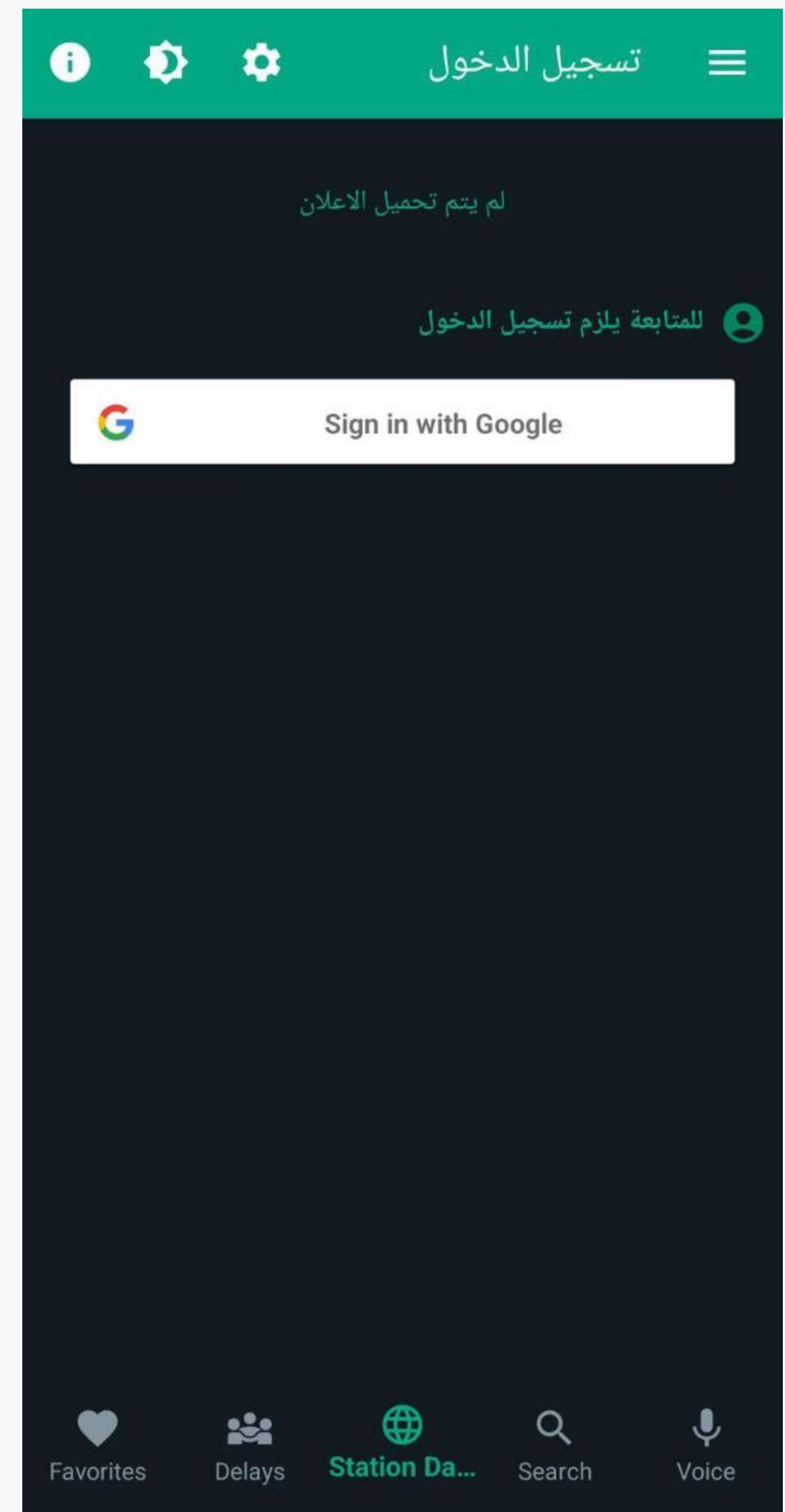# Old Design

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.

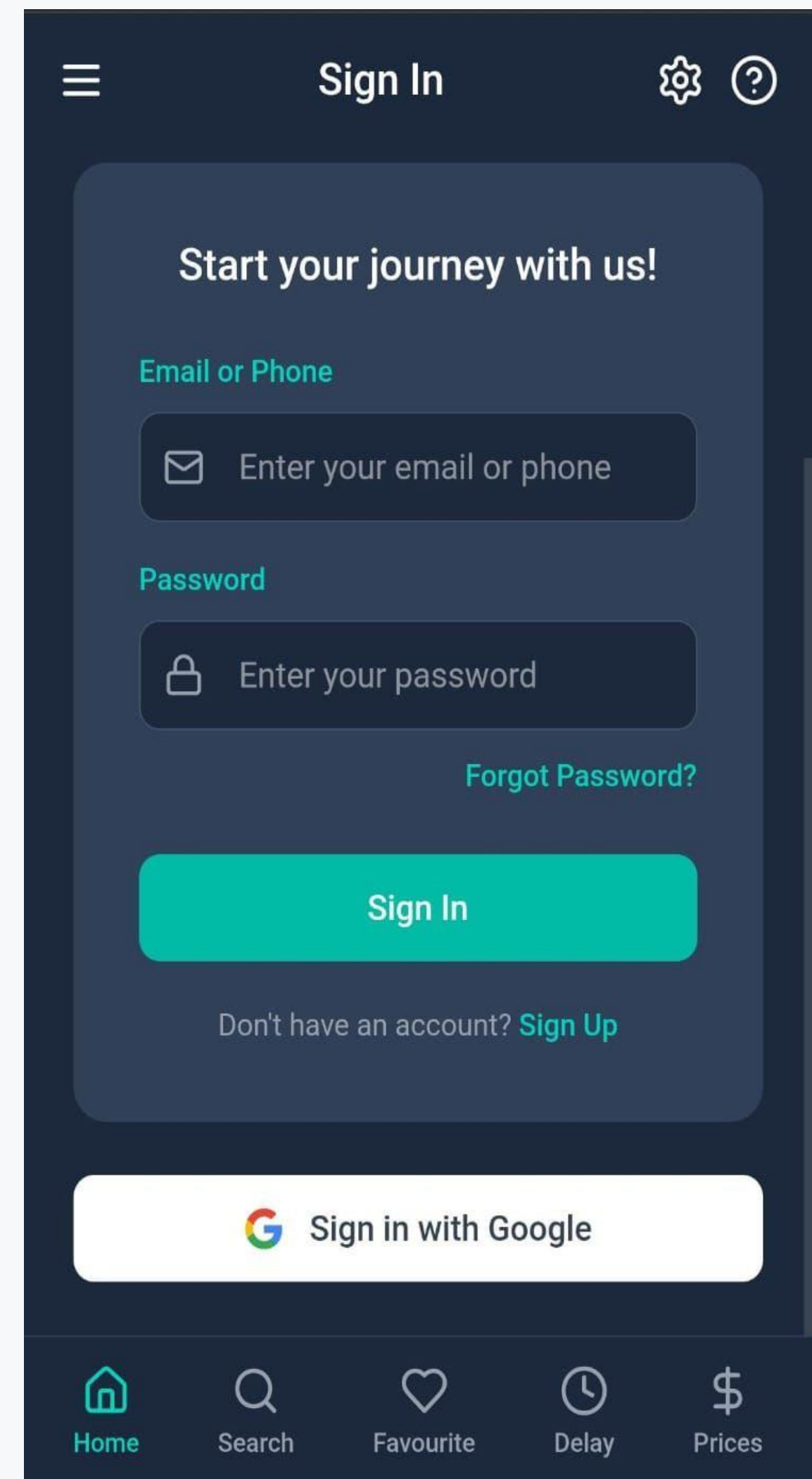- Poor Aesthetics: Unbalanced colors and inconsistent language
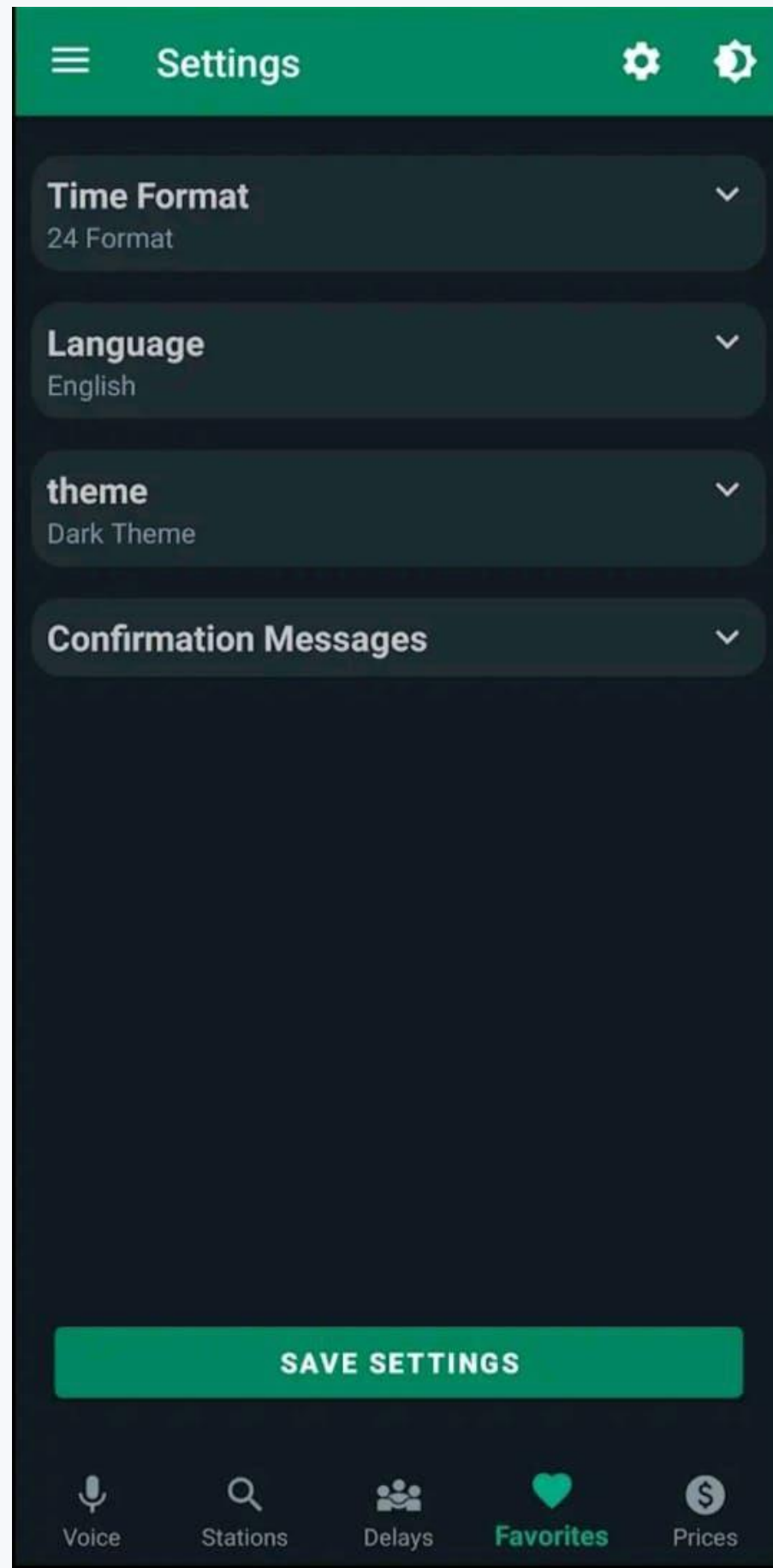
(Arabic/English).
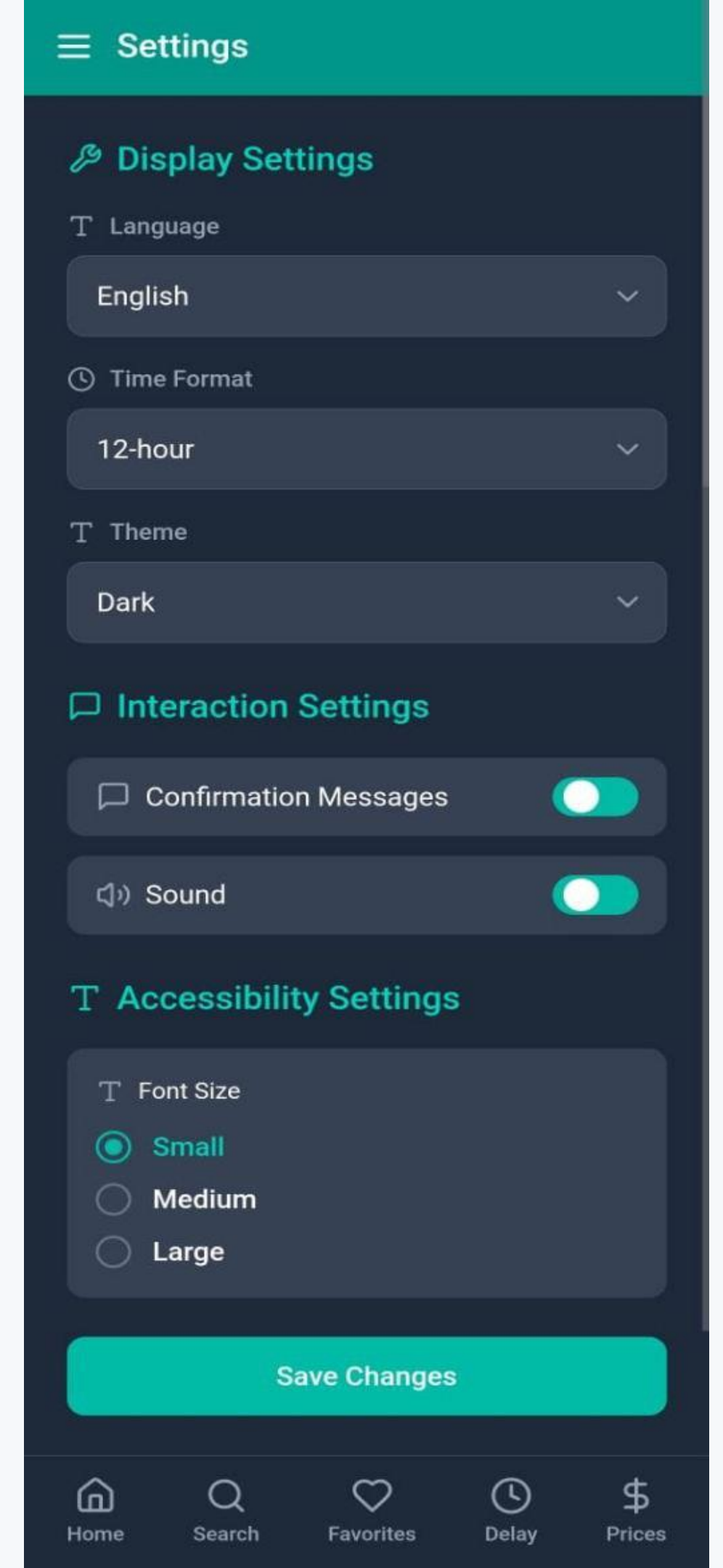
New Design

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

Settings

Time Format
24 Format

Language
English

theme
Dark Theme

Confirmation Messages

SAVE SETTINGS

Voice | Stations | Delays | Favorites | Prices

New Design

Settings

Display Settings

T Language

English

🕐 Time Format

12-hour

T Theme

Dark

Interaction Settings

💬 Confirmation Messages ⬤

🔊 Sound ⬤

Accessibility Settings

T Font Size
◉ Small
○ Medium
○ Large

Save Changes

Home | Search | Favorites | Delay | Prices

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.

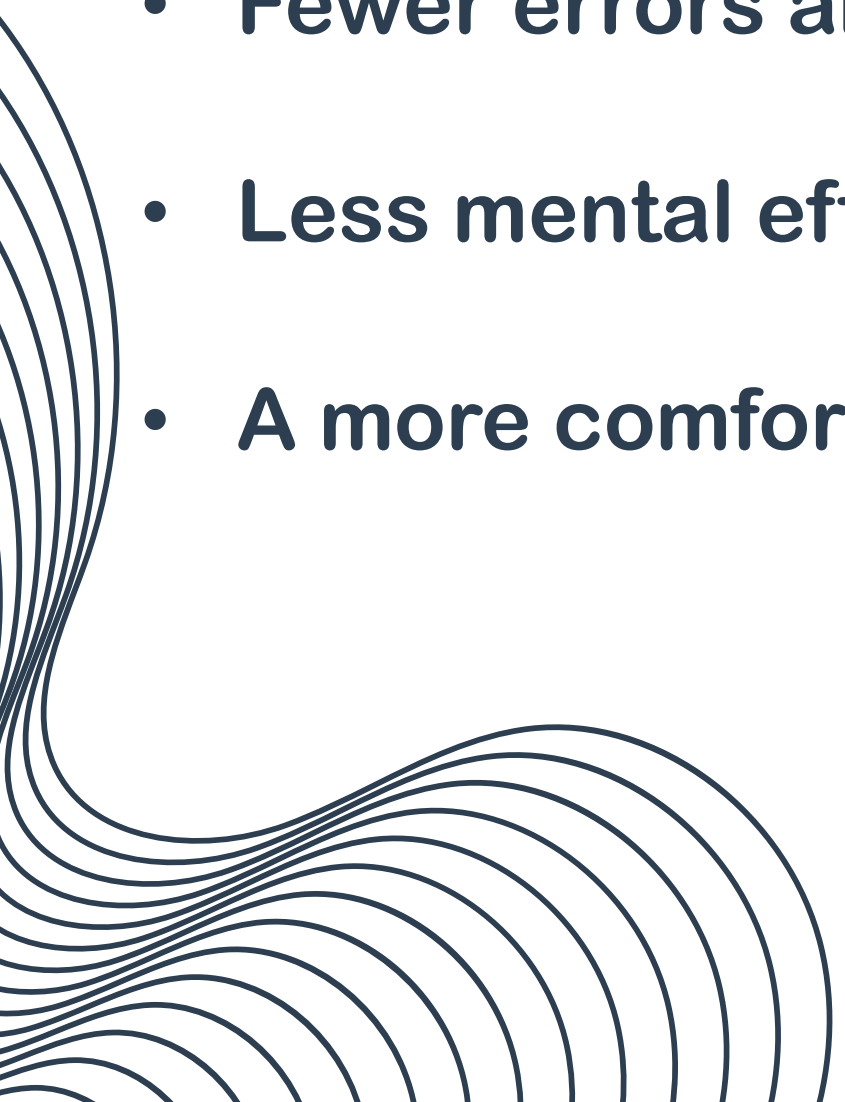- Poor Scaling: Ineffective use of available screen space.
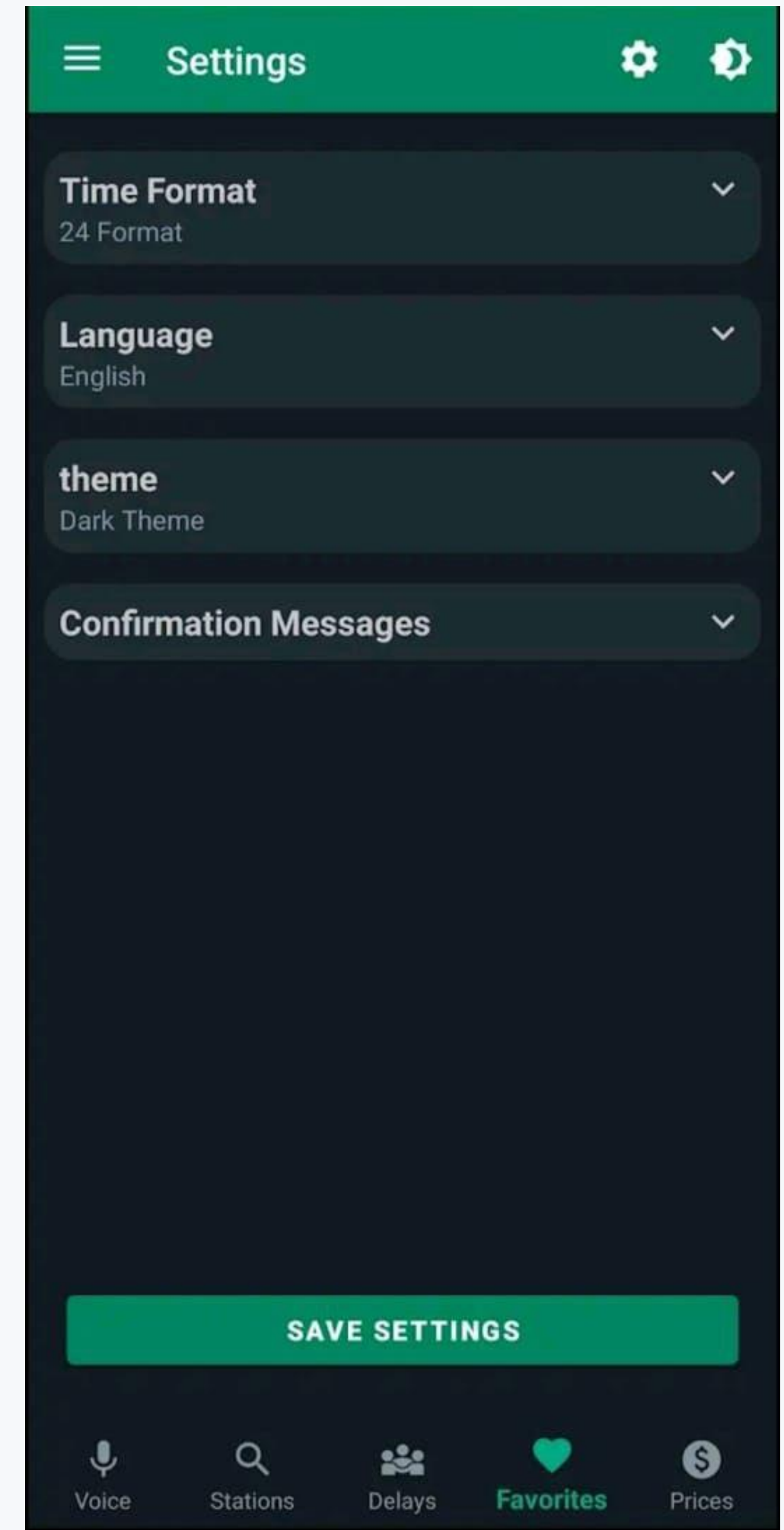
New Design

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.

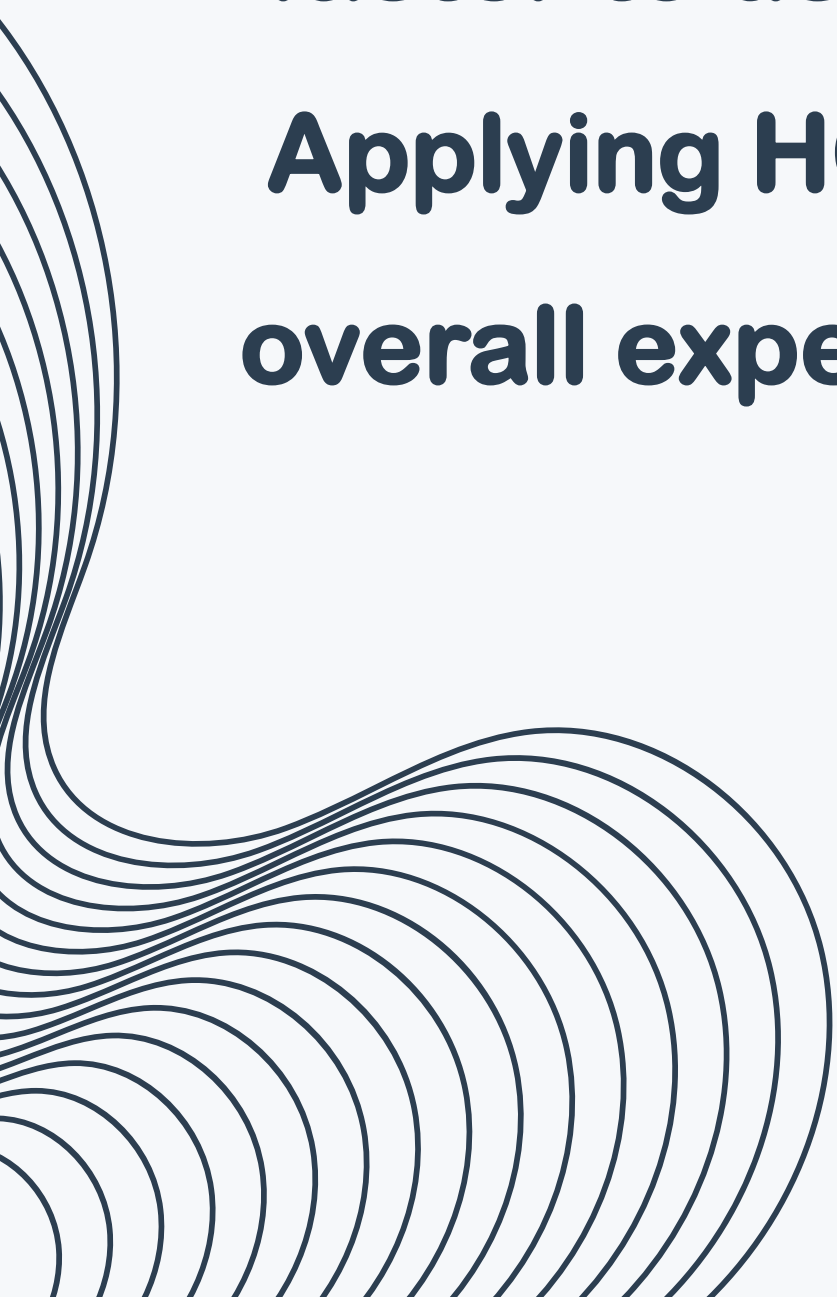- Clean Layout: Simplified header and better use of screen space
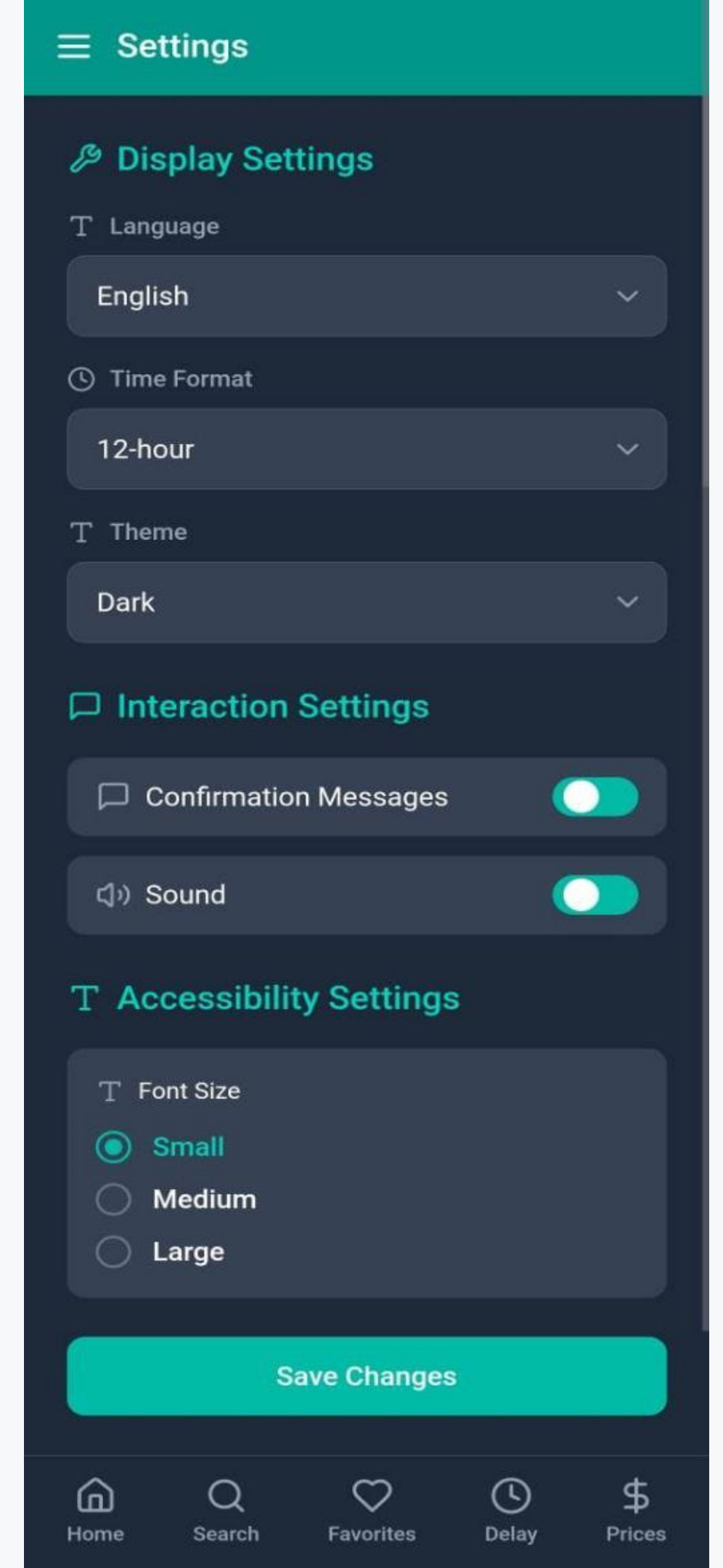
Impact of Redesign

- 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!