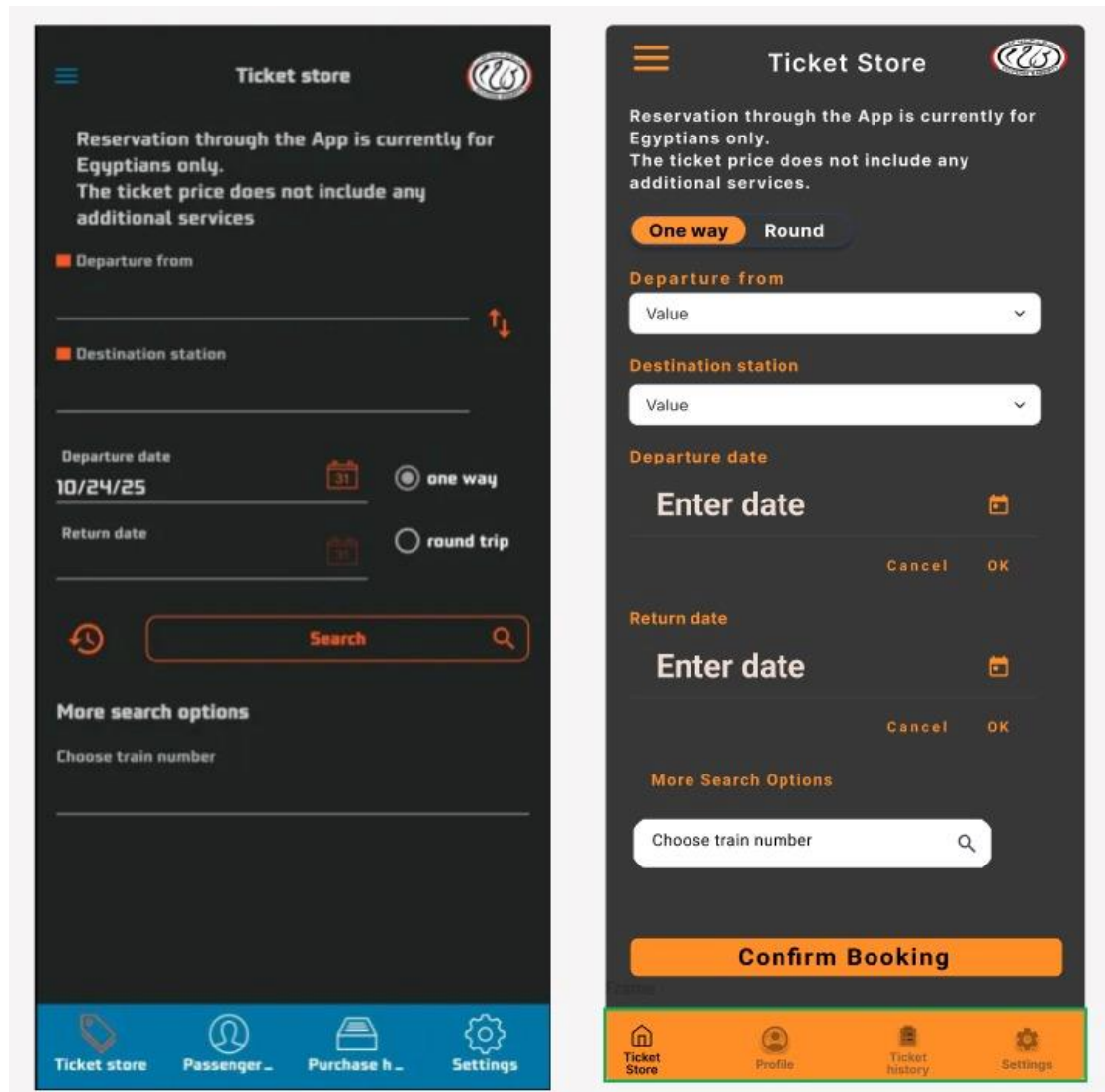# HCI Final Project

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- احمد مصطفي عامر الخولي 2023029 - 29- C1
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Egypt National Railways UI/UX Redesign App

Why the New UI/UX Design is Better than
- the Old One

The redesigned interface (right – orange & black) is better than the old design (left) for several usability reasons:

1. Better Visually

Important actions like One way / Round and Confirm Booking are clearly highlighted.

Users can easily understand the flow: from choosing stations → dates → confirming booking.

In the old design, elements look crowded and have similar visual weight.

2. Improved Readability & Contrast

Orange elements on a dark background improve contrast and visibility.

Labels and input fields are clearer and easier to read.

The old UI uses low contrast text, which makes reading harder.

3. Clear Call to Action

The Confirm Booking button is large, centered, and visually dominant.

In the old design, the search button is less noticeable and easy to miss.

4. Better User Guidance

Input fields like *Enter date* guide the user clearly.

Icons and spacing make it obvious what the user should do next.

The old design requires more effort to understand interactions.

5. Consistent & Modern Design

Consistent colors, spacing, and components create a clean modern look.

Bottom navigation is clearer with icons and labels.

The old UI looks outdated and less intuitive.

- Conclusion

The new design improves usability, clarity, and user experience, making ticket booking faster, easier, and less confusing for users — which aligns well with HCI principles like simplicity, visibility, and efficiency.
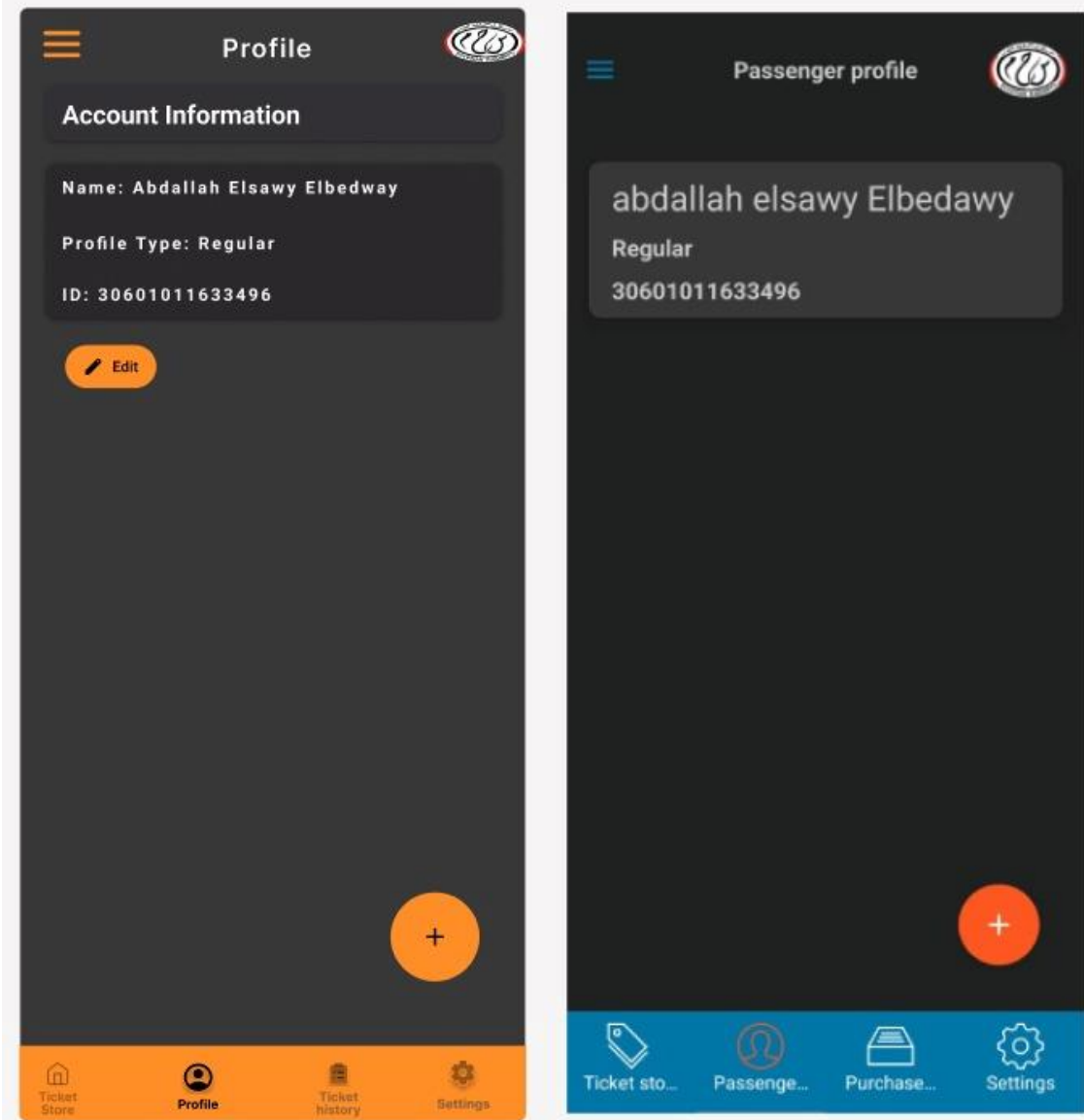
- Why the New Profile Design is Better than the Old One?

The redesigned profile screen (left – orange & black) is better than the old one (right) for these reasons:

1. Clear Information Structure

User data is grouped under Account Information, making it easier to scan.

Labels like Name, Profile Type, and ID are clearly separated.

In the old design, information appears as plain text without clear structure.

2. Better Readability

Improved font size, spacing, and contrast make text easier to read.

Dark background with orange highlights improves visibility.

The old design has low contrast and less clear text hierarchy.

3. Clear Actions & Interactivity

The **Edit** button is visible and clearly indicates what the user can do.

Floating action button (+) is more noticeable and modern.

In the old design, actions are not clearly emphasized.

4. Modern & User-Friendly Look

Consistent colors, cards, and layout create a modern experience.

The new design feels more organized and user-centered.

The old design looks outdated and less intuitive.

-> Conclusion

The new profile design improves clarity, usability, and user control, helping users quickly understand their information and interact with the app more efficiently, which follows core HCI principles.
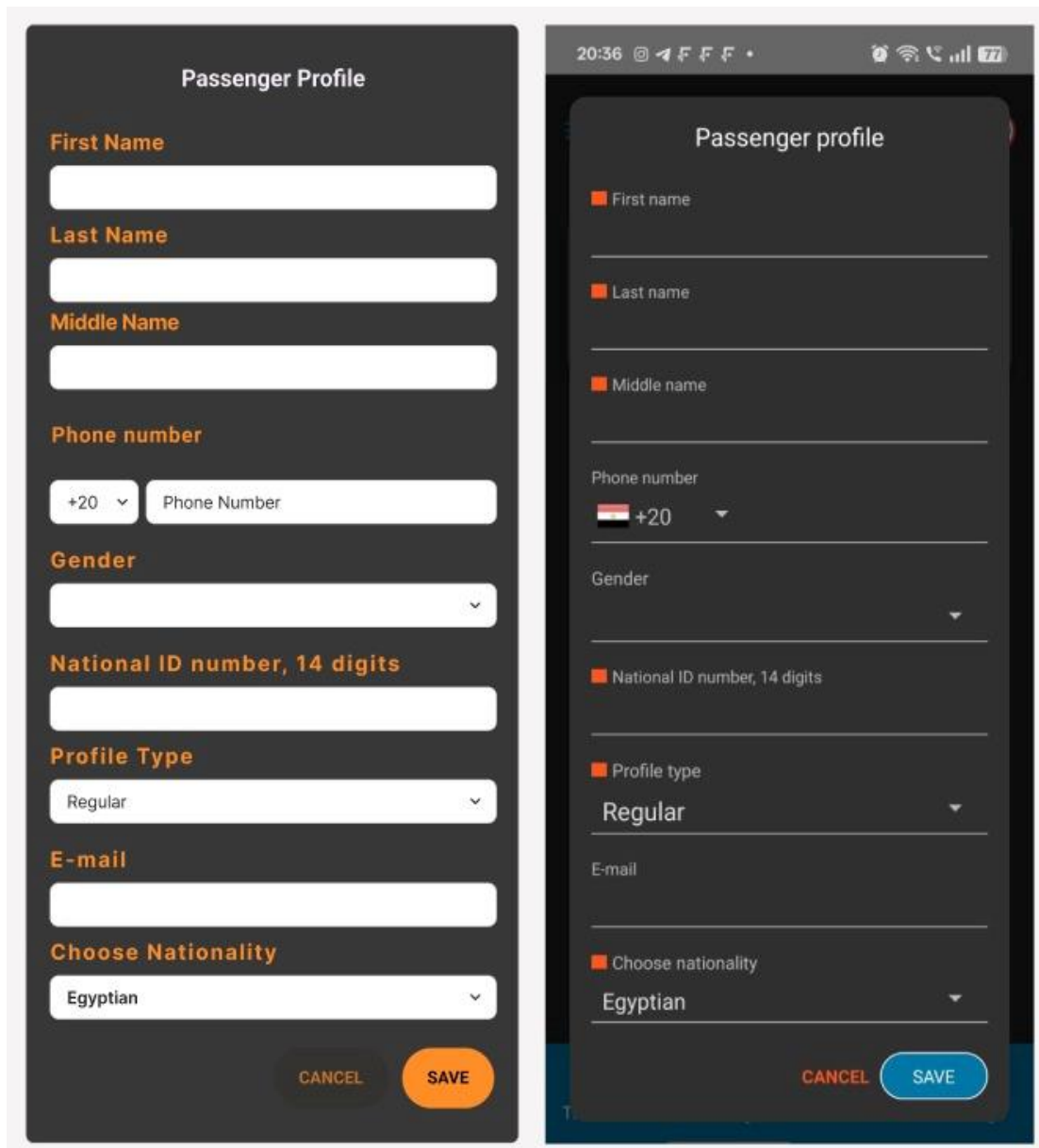
Why the New Passenger Profile Design is Better than the Old One?

The redesigned passenger profile form (left – orange & black) improves usability compared to the old design (right) in the following ways:

1. Clear Form Layout

Each input field is clearly separated with visible input boxes.

Labels are placed above fields, making them easier to understand.

The old design uses lines instead of boxes, which makes fields less clear.

2. Better Readability & Visibility

White input fields on a dark background improve text visibility.

Orange labels highlight important information.

In the old design, text and inputs are less distinguishable.

3. Improved Data Entry Experience

Input fields clearly indicate where the user should type.

Dropdowns (Gender, Profile Type, Nationality) are more obvious.

Phone number field is clearer with country code separation.

4. Reduced User Errors

Clear hints like "National ID number, 14 digits" help prevent mistakes.

Consistent spacing reduces confusion while filling the form.

The old design provides less guidance.

5. Clear Actions

Save button is highlighted as the primary action.

Cancel is less dominant, reducing accidental clicks.

In the old design, actions are less visually prioritized.

-> Conclusion

The new passenger profile design improves efficiency, clarity, and error prevention, making it easier and faster for users to enter their information, which strongly follows HCI principles such as visibility, feedback, and consistency.
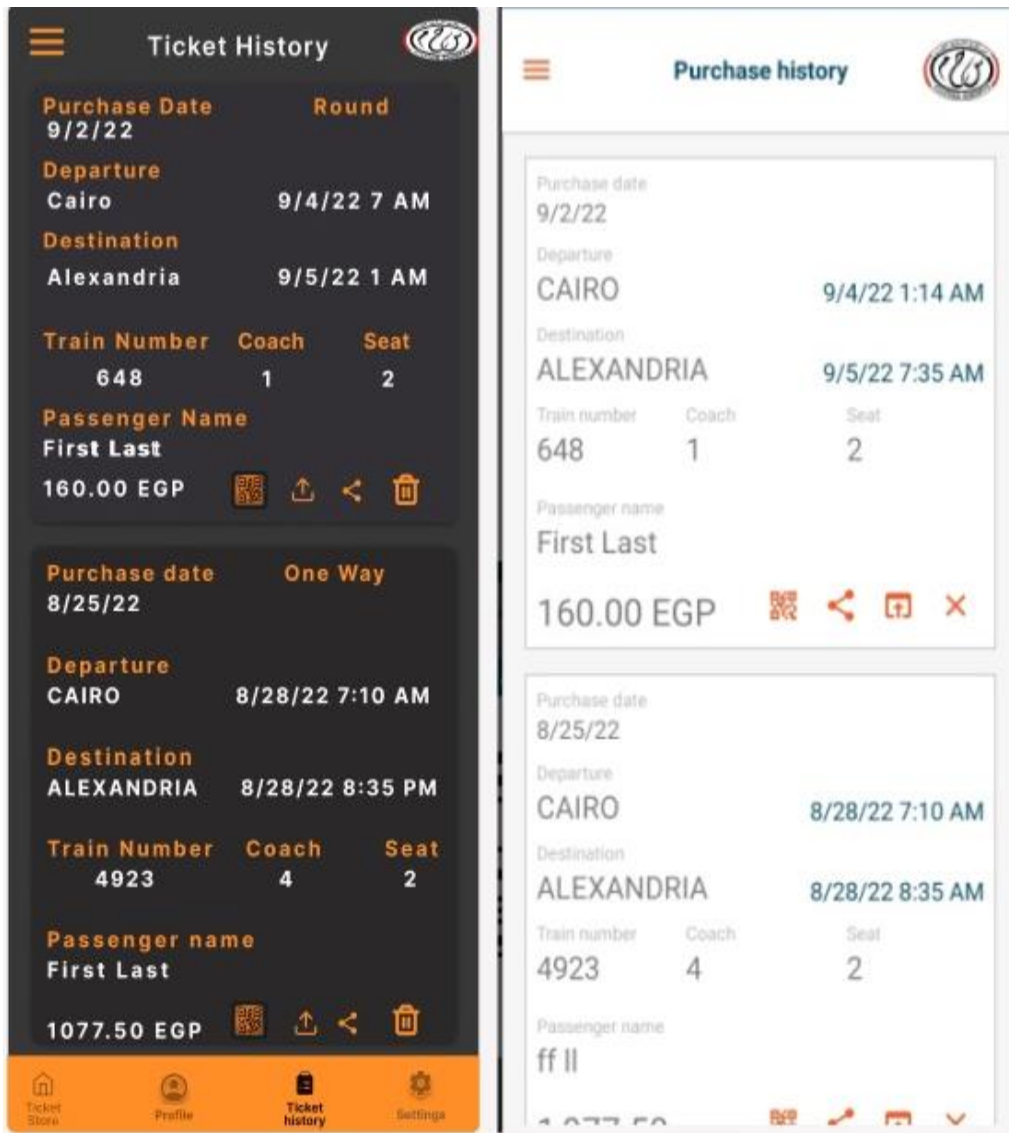
- Why the New Ticket History Design is Better than the Old One?

The redesigned ticket history screen (left – dark with orange accents) improves usability compared to the old design (right) in several ways:

1. Better Information Hierarchy

Important details (purchase date, trip type, departure, destination) are clearly highlighted.

Orange labels help users quickly scan each ticket.

In the old design, information is dense and harder to scan.

2. Improved Readability & Focus

Dark background reduces visual noise and helps important data stand out.

Consistent typography and spacing improve readability.

The old white background feels cluttered with too much information at once.

3. Clear Separation Between Tickets

Each ticket appears as a distinct card, making multiple trips easy to distinguish.

Users can quickly identify different bookings.

In the old design, tickets blend together visually.

4. Clear Actions & Icons

Action icons (QR code, share, delete) are visible and easy to understand.

Icons are grouped logically near the ticket price.

In the old design, actions are less organized and less noticeable.

5. Consistent App Experience

Colors, icons, and layout match the rest of the redesigned app.

Bottom navigation clearly shows the active section.

The old design feels inconsistent with other screens.

-> Conclusion

- The new ticket history design improves clarity, efficiency, and ease of use, allowing users to review and manage their past tickets quickly, in line with HCI principles such as consistency, visibility, and recognition over recall.
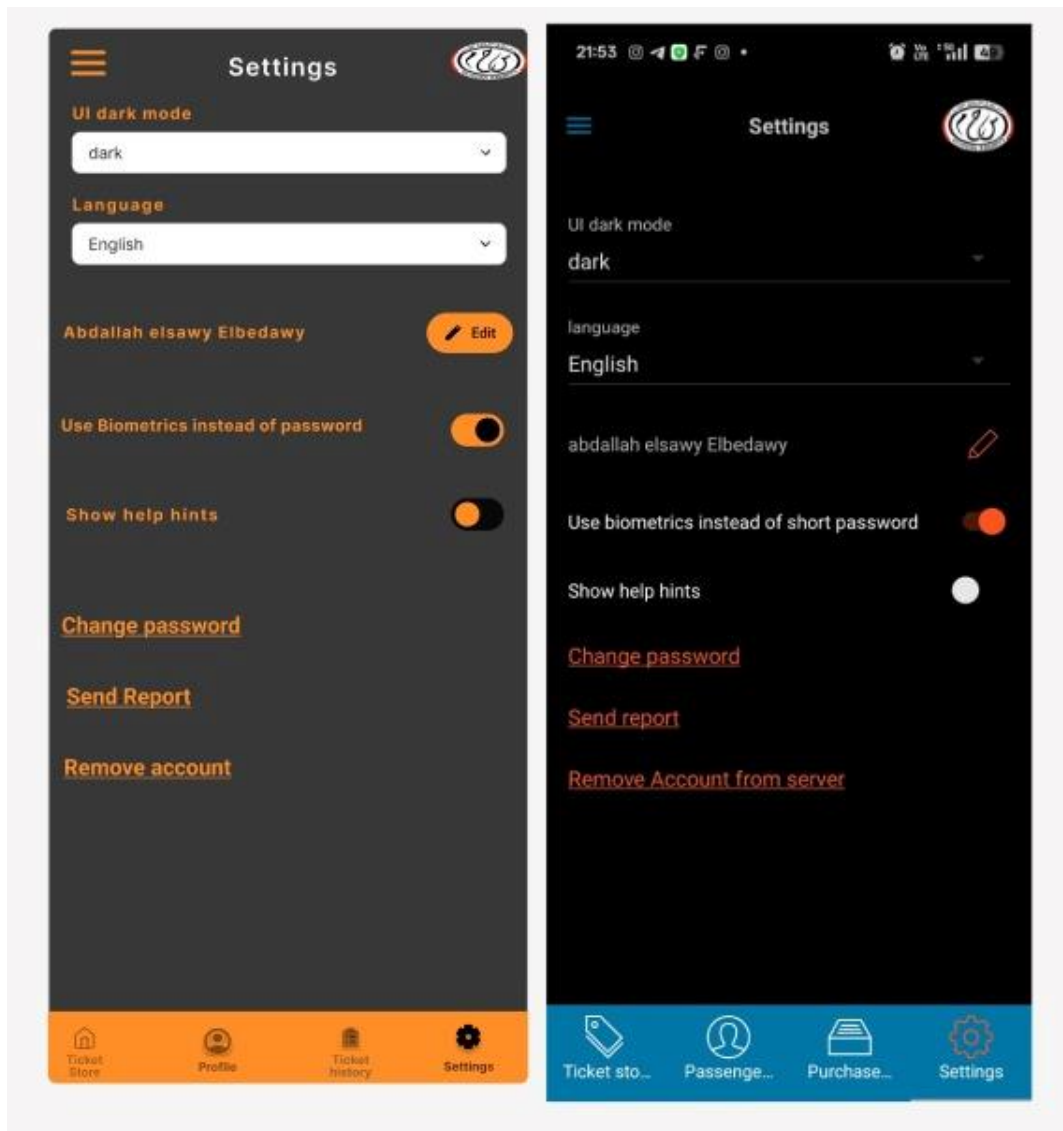
- Why the New UI/UX Design Is Better Than the Old One

1. Better Visual Clarity
The new design uses a true dark mode with high contrast (black background and orange accents), which improves readability and reduces eye strain. Important options are easier to notice compared to the old design, which had weaker contrast and visual clutter.

2. Improved Information Hierarchy
Settings are more clearly structured and separated. Each option is easy to scan and understand, allowing users to find what they need faster. The old design lacked clear visual separation between elements.

3. Lower Cognitive Load
The new interface uses fewer colors and a cleaner layout, which helps users process information quickly without confusion. The old interface required more effort to understand due to poor contrast and crowded elements.

4. Better Usability

Buttons, toggles, and text are clearer and more accessible. The layout follows modern usability standards, making interactions more intuitive and reducing user errors.

5. Modern and Consistent Design

The new design follows modern UI trends and user expectations, especially the use of dark mode, which is now standard in most popular mobile applications.

- Conclusion

The redesigned UI provides a cleaner, more organized, and more user-friendly experience, making the application easier to use and more visually appealing compared to the old design.