PlasticPath Go!

Step-by-Step Guide to Install an Android App Locally from an .apk File (i.e Samsung Devices)

Step 1: Get the .apk File

Download Link:
https://www.plasticpath.org/dwl/PlasticPath_Demo_20251021.apk

Sample Credentials:
Username: developer@promiti.com
Password: 000000

Make sure you have the .apk file saved on your Samsung phone in one of the following locations:

- My Files → Documents
- Or any other folder you can access through the My Files app.

Step 2: Allow "Install Unknown Apps"

Before installing, Samsung devices require permission to install apps from sources outside the Play Store.

1. Open Settings → Apps.
2. Tap the three dots (⋮) in the top-right corner → select Special access.
3. Tap Install unknown apps.
4. From the list, find and select your file manager app (e.g., My Files) or browser (e.g., Samsung Internet, Chrome).
5. Turn on the switch for "Allow from this source."

Note: The menu names may vary slightly depending on your One UI version.

Step 3: Install the .apk File

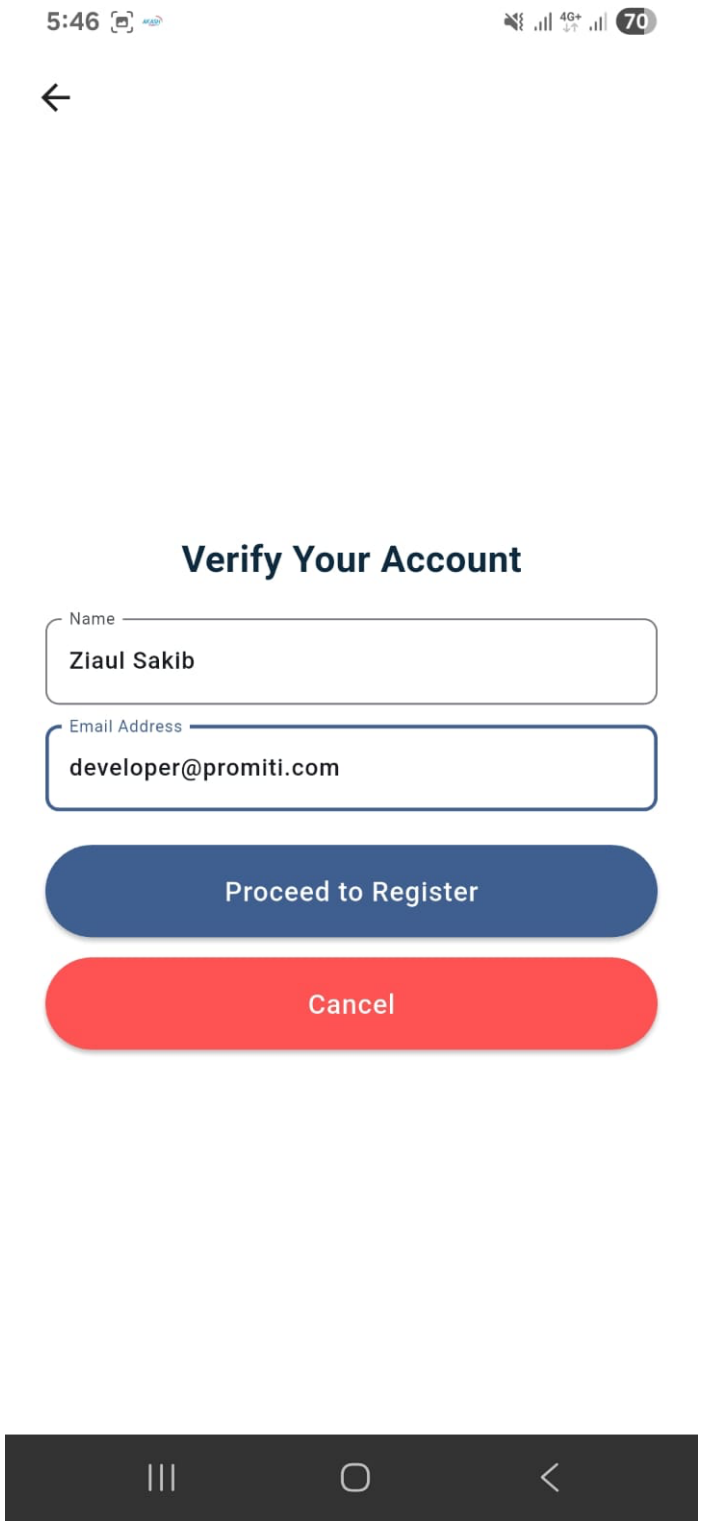
1. Open the My Files app on your Samsung device.
2. Navigate to the folder where the .apk file is saved (usually Downloads).
3. Tap the .apk file.
4. When prompted, tap Install.
5. Wait until the installation completes.

Step 4: Launch the App

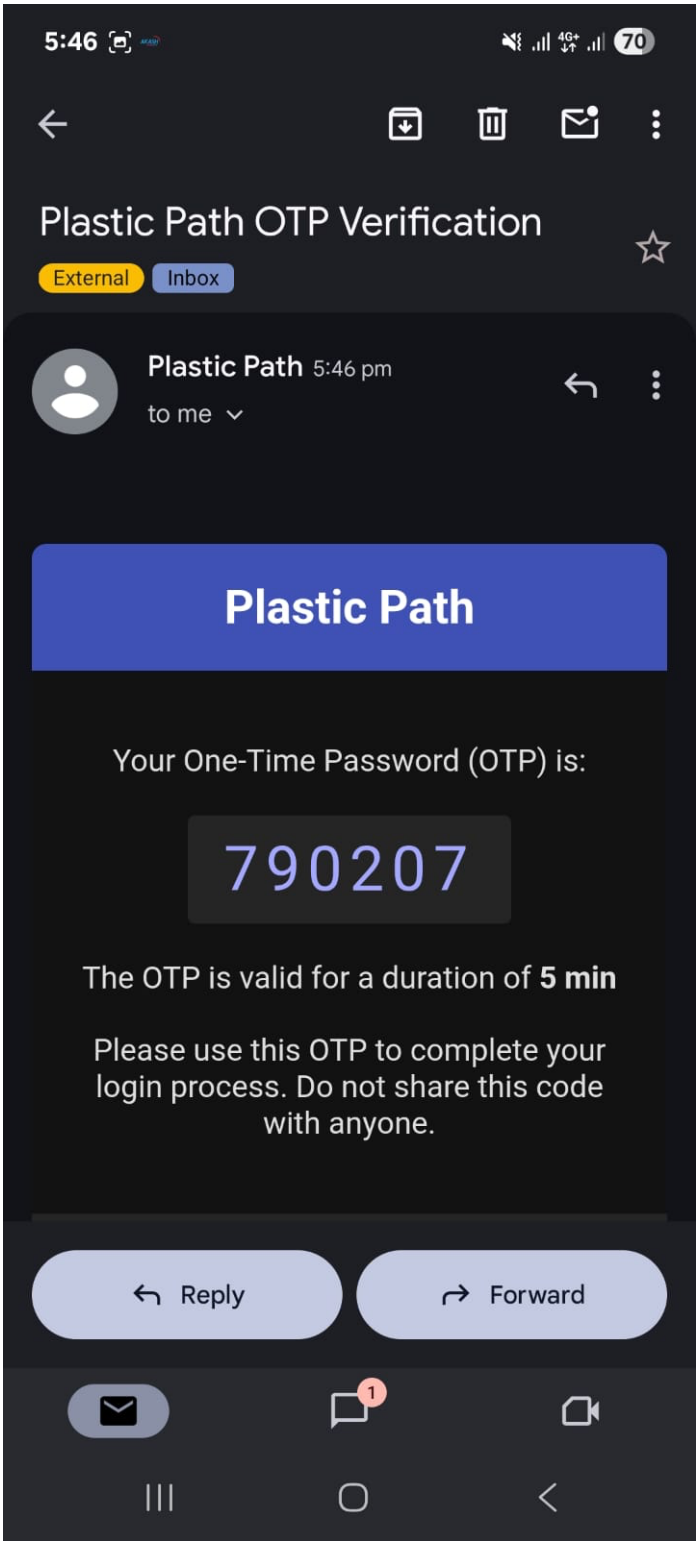
Once installation finishes:

- Go to your Apps screen (swipe up from the home screen).
- Find the newly installed app icon.
- Tap it to open and start using the app.

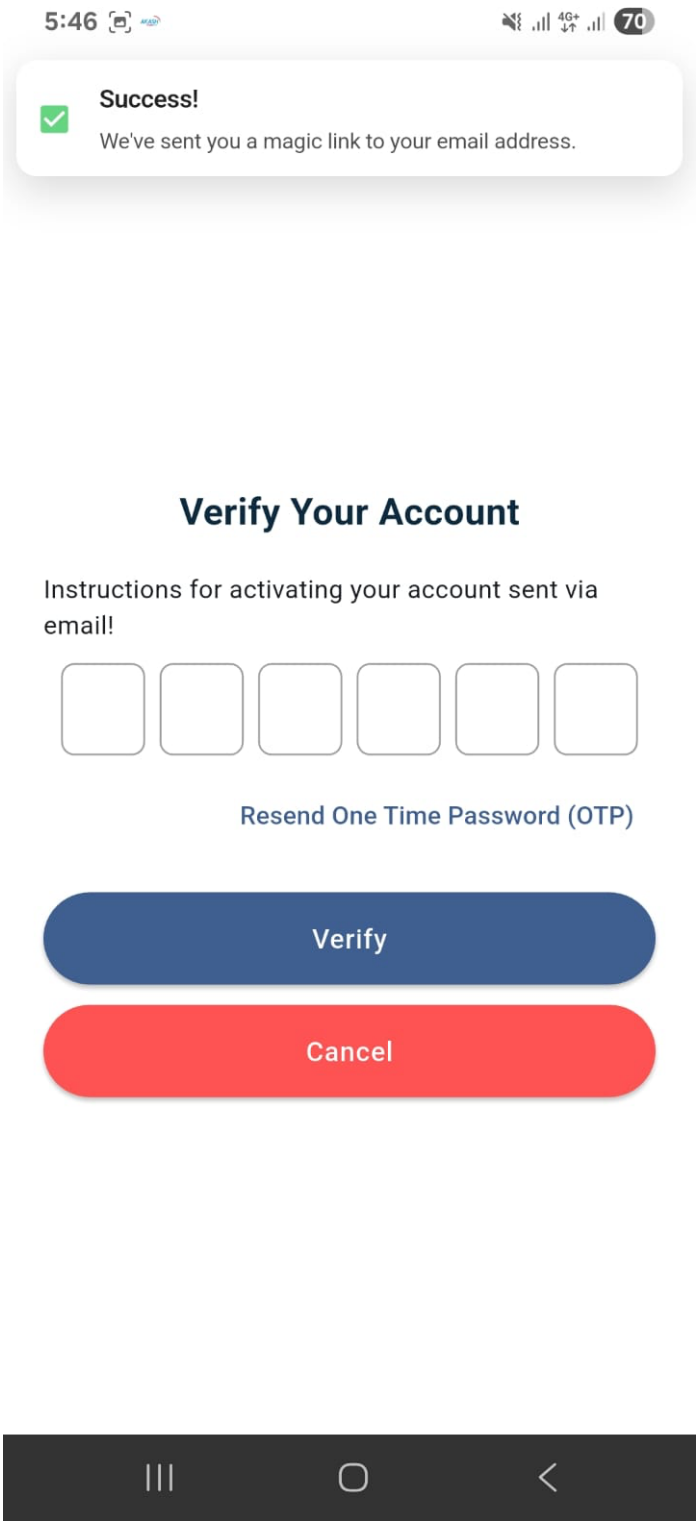
Displays the app's logo, app name (**Plastic Path - Turning Waste Into Solutions**), and a relevant tip of the day.



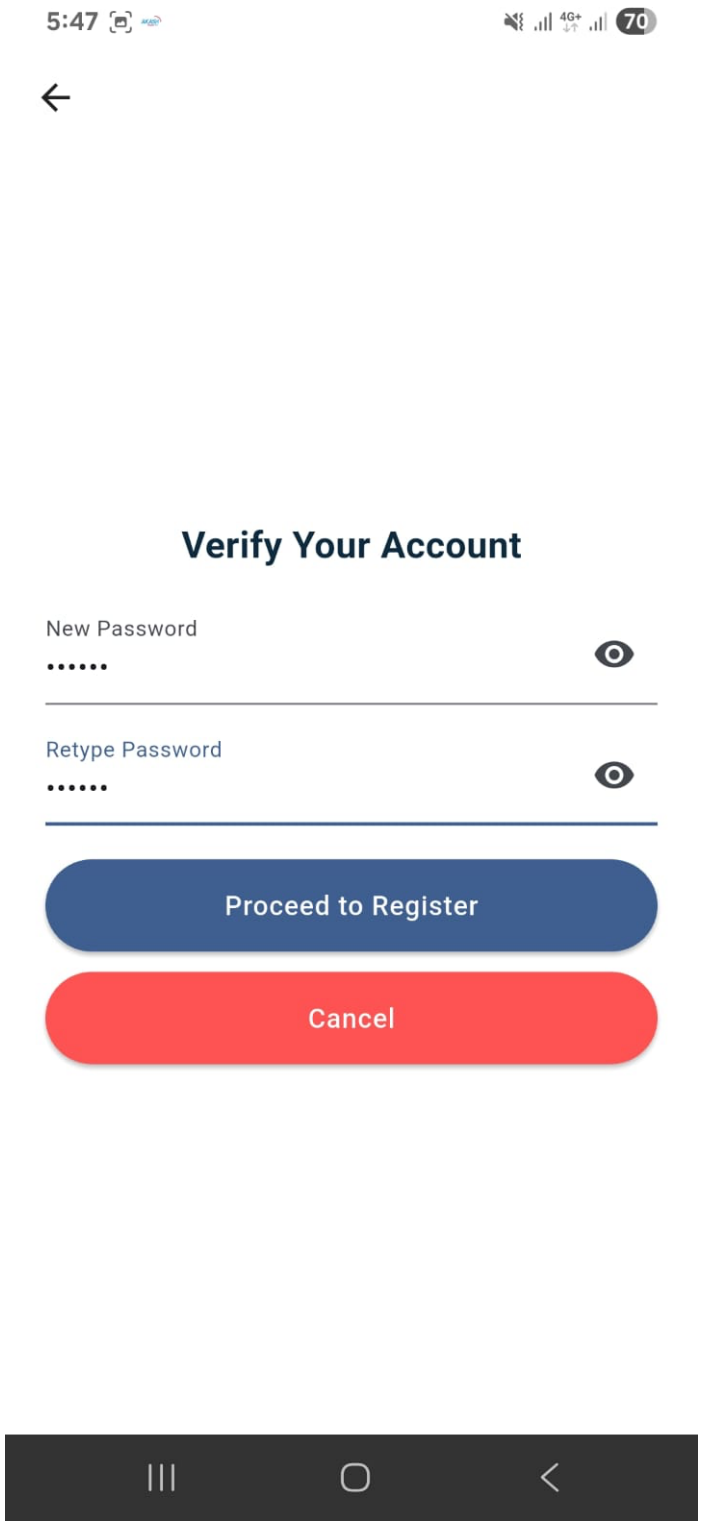
Allows a new user to enter their **Name** and **Email Address** to begin the account registration process.



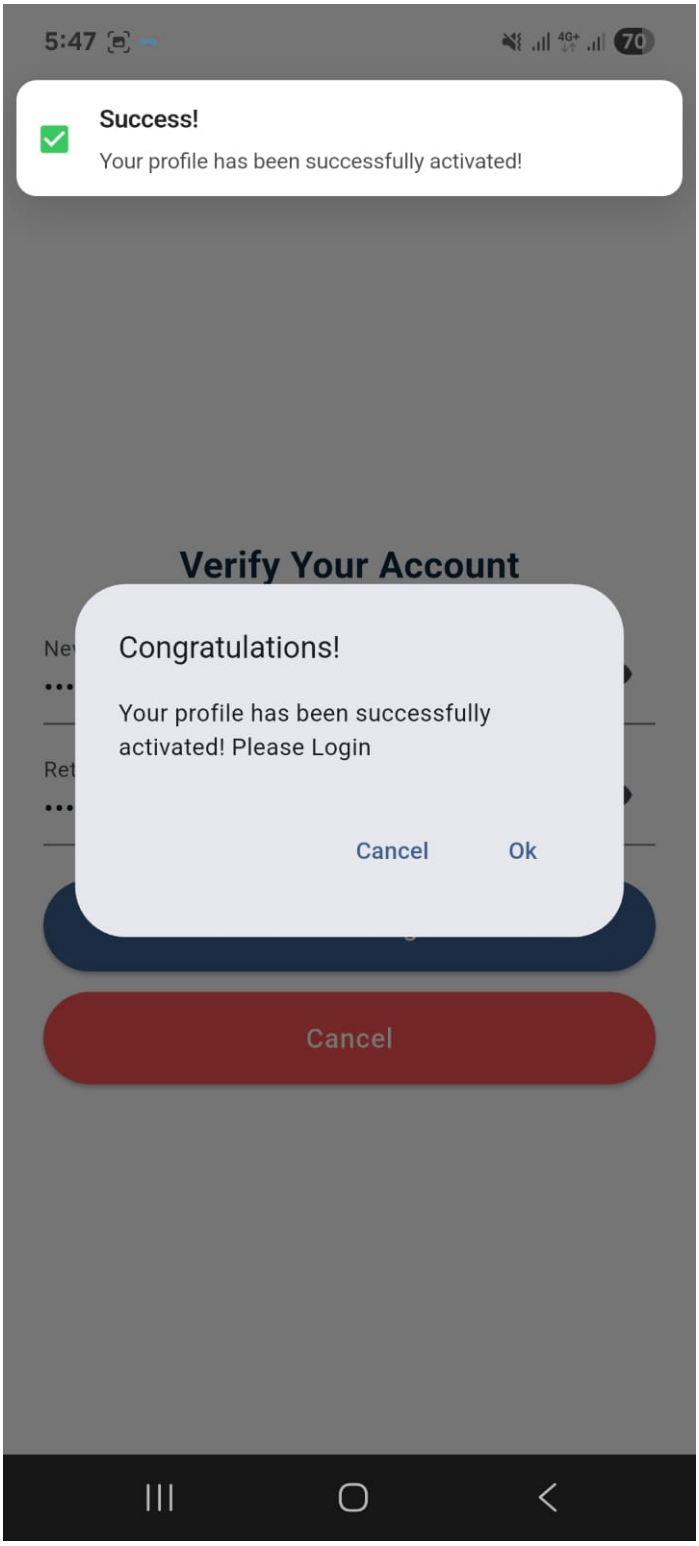
Shows an example of the email received by the user containing the **One-Time Password (OTP)** for account verification.



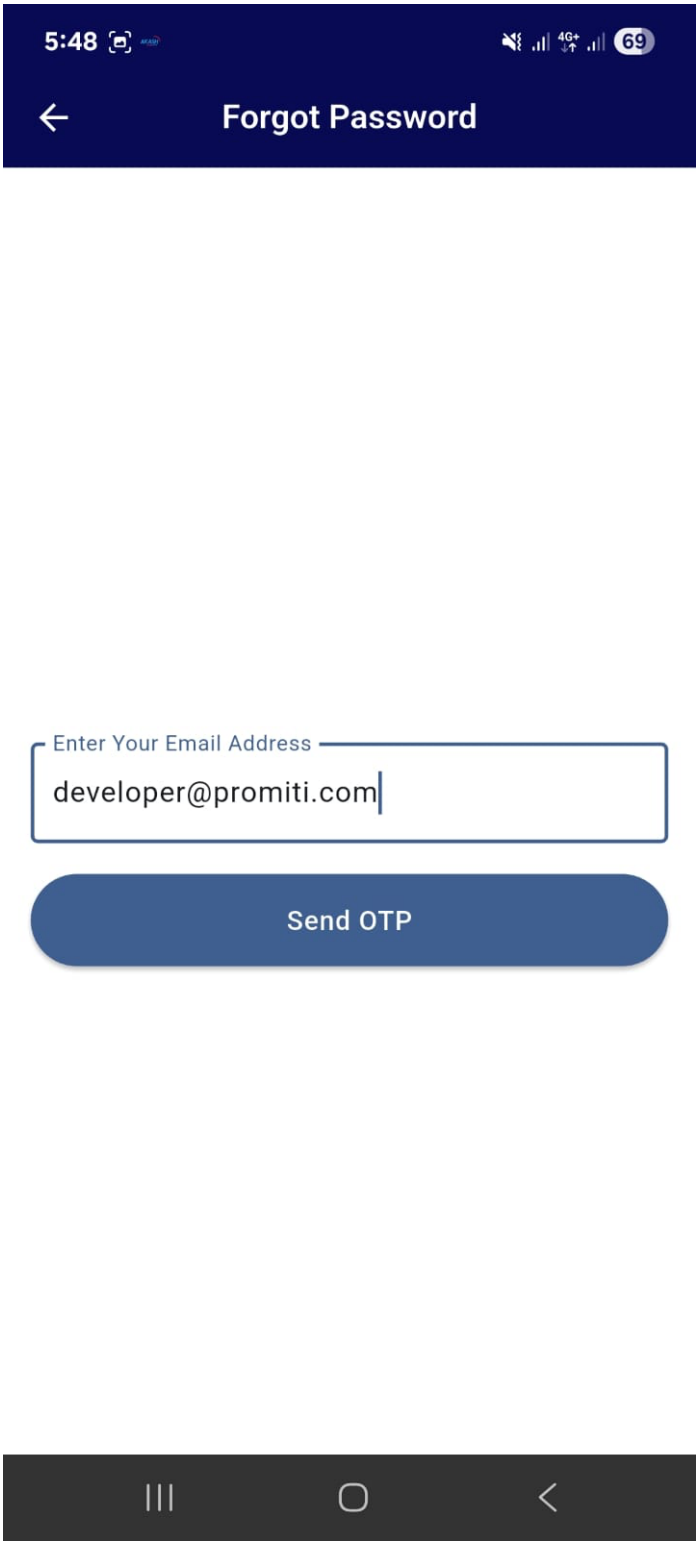
Prompts the user to input the **OTP** received via email to verify their account and continue registration.



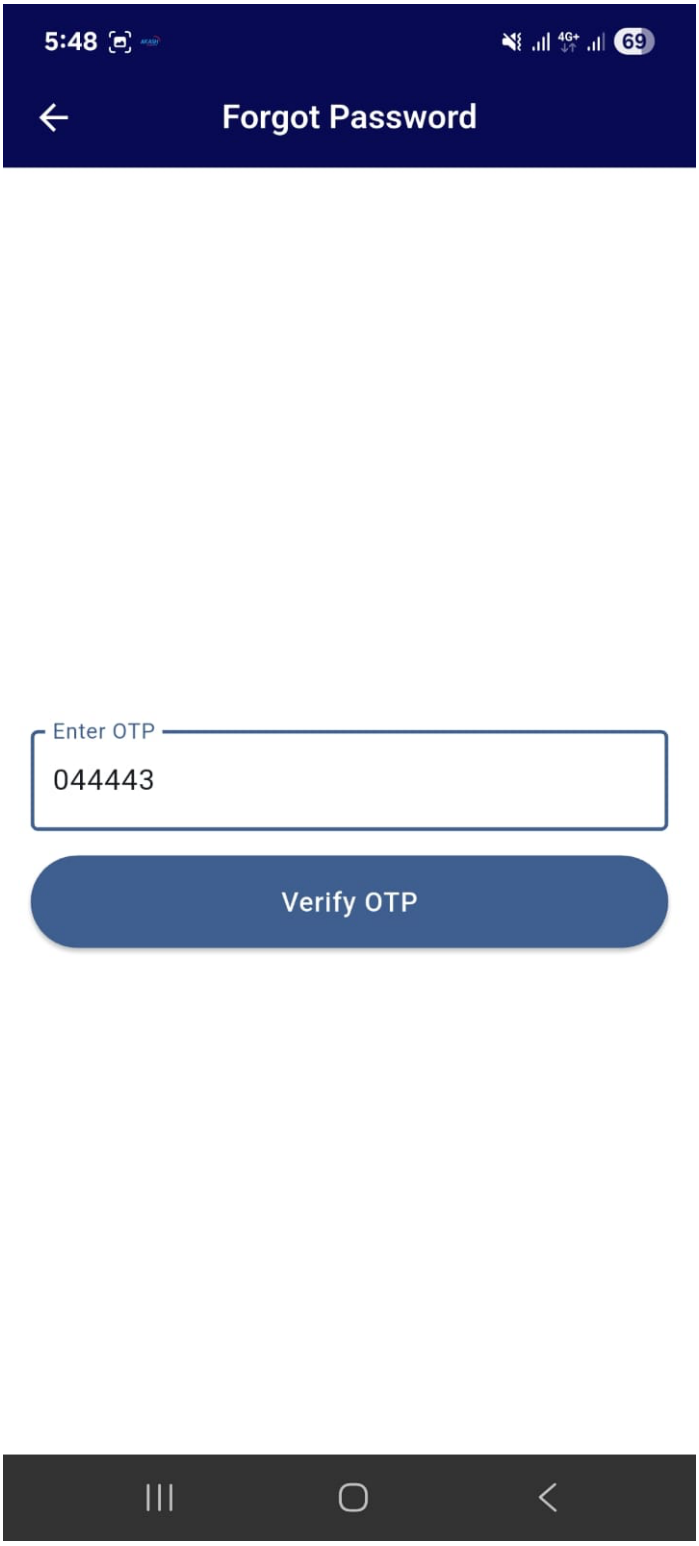
Allows the user to set their **New Password** and **Retype Password** to finalize the registration and secure their new account.



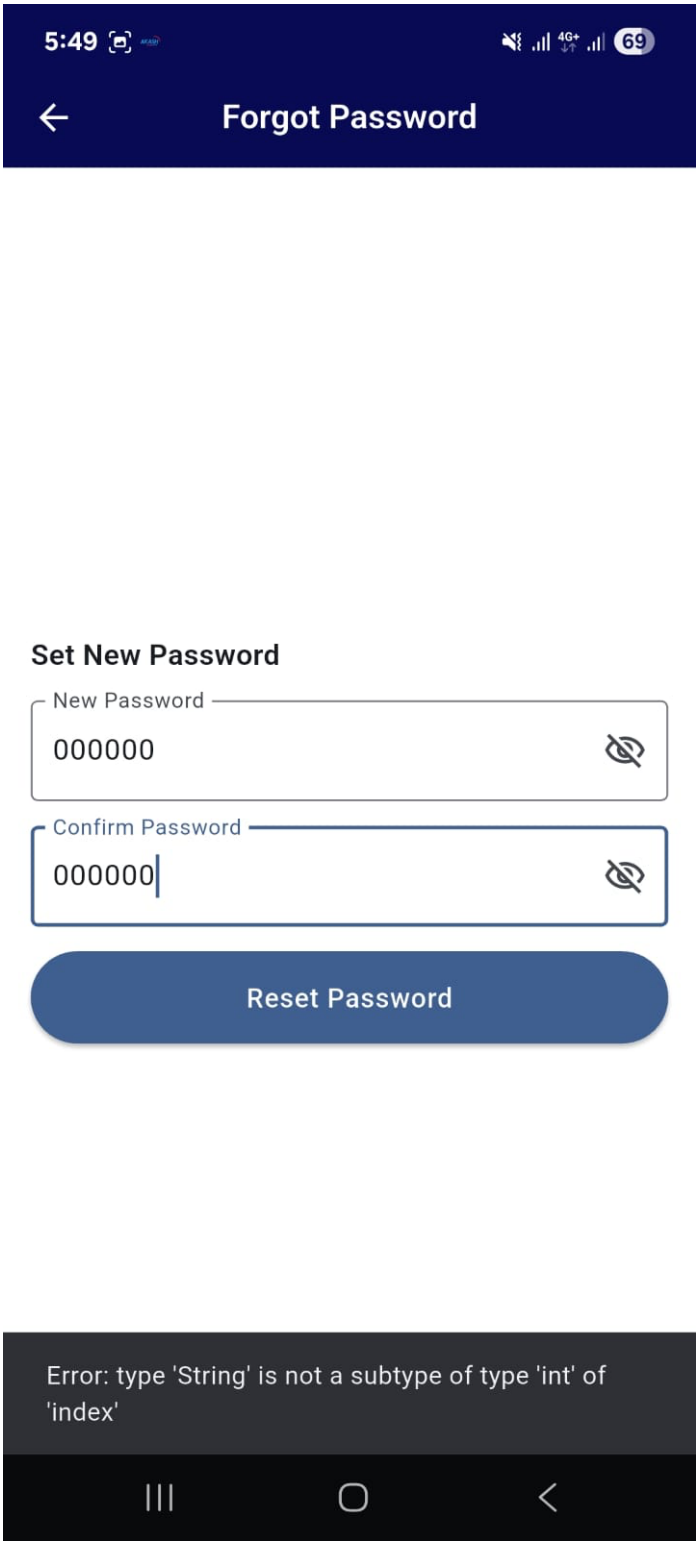
Confirms that the user's profile has been successfully activated and prompts them to proceed to login.



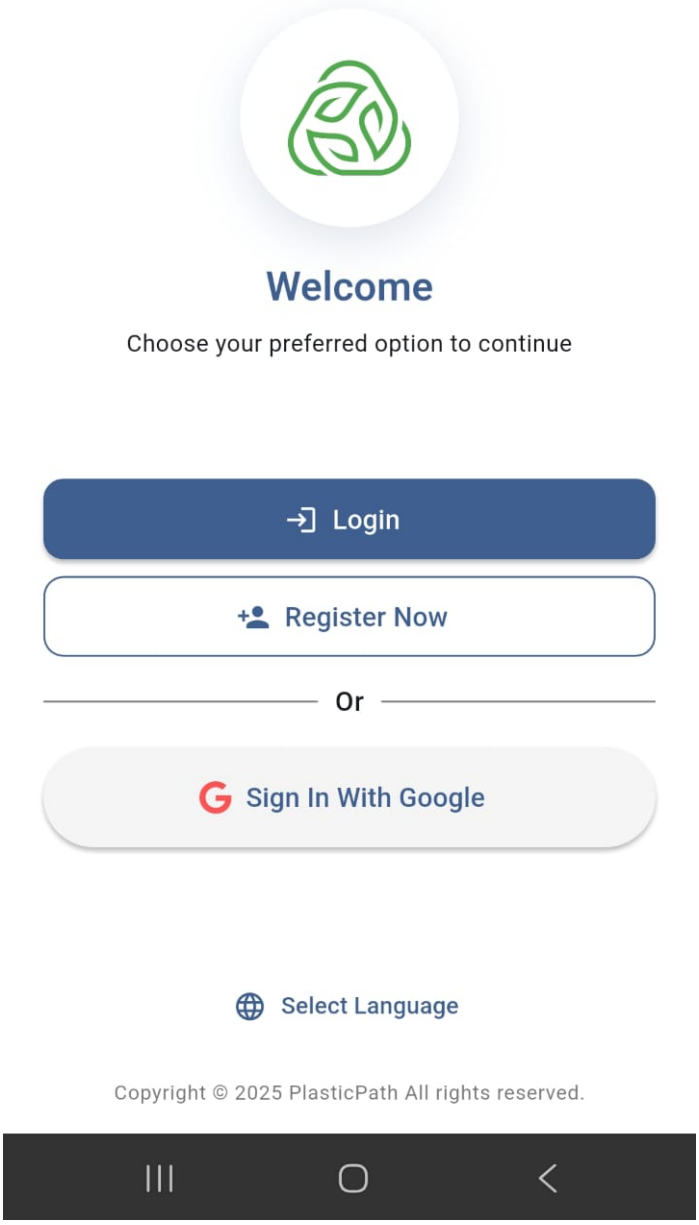
Initiates the password recovery process by prompting the user to **Enter Your Email Address** to receive an OTP for password reset.



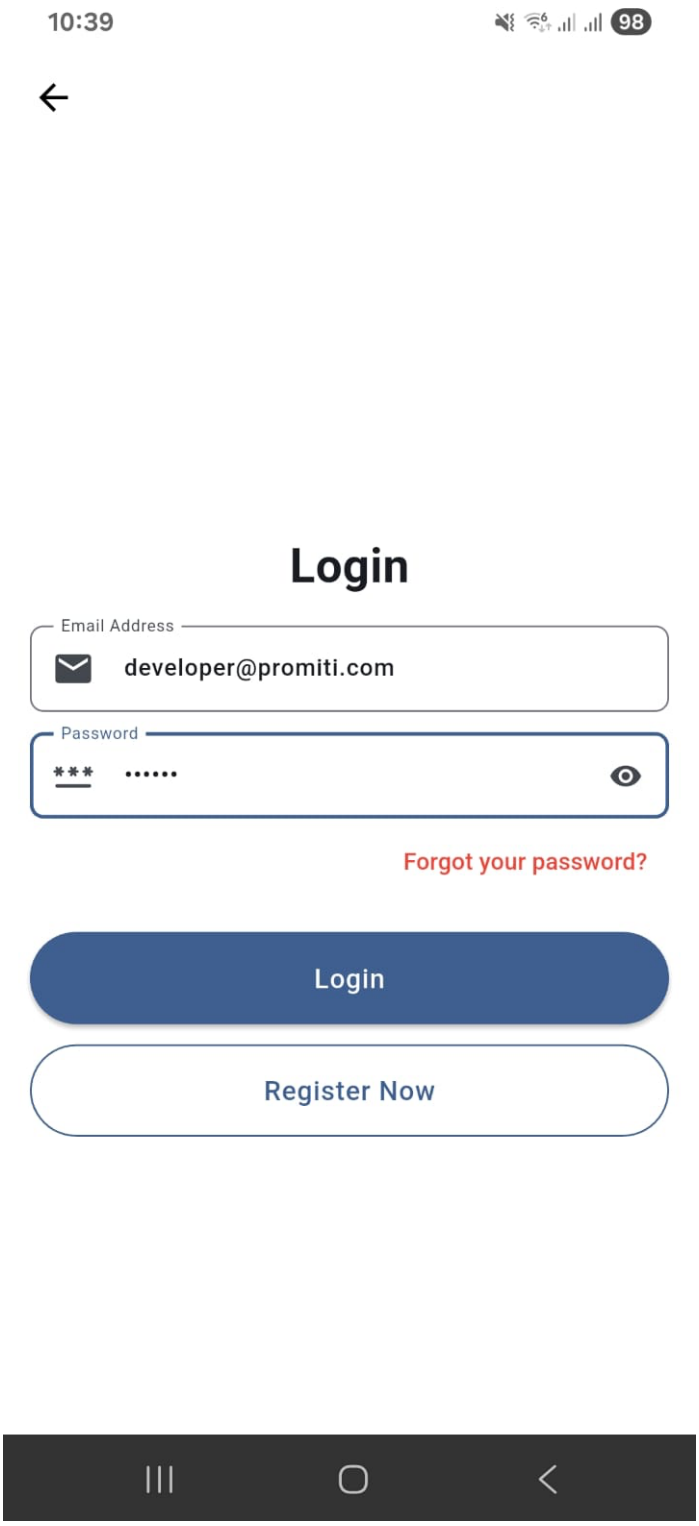
Prompts the user to **Enter OTP** received for the password reset request to verify their identity.



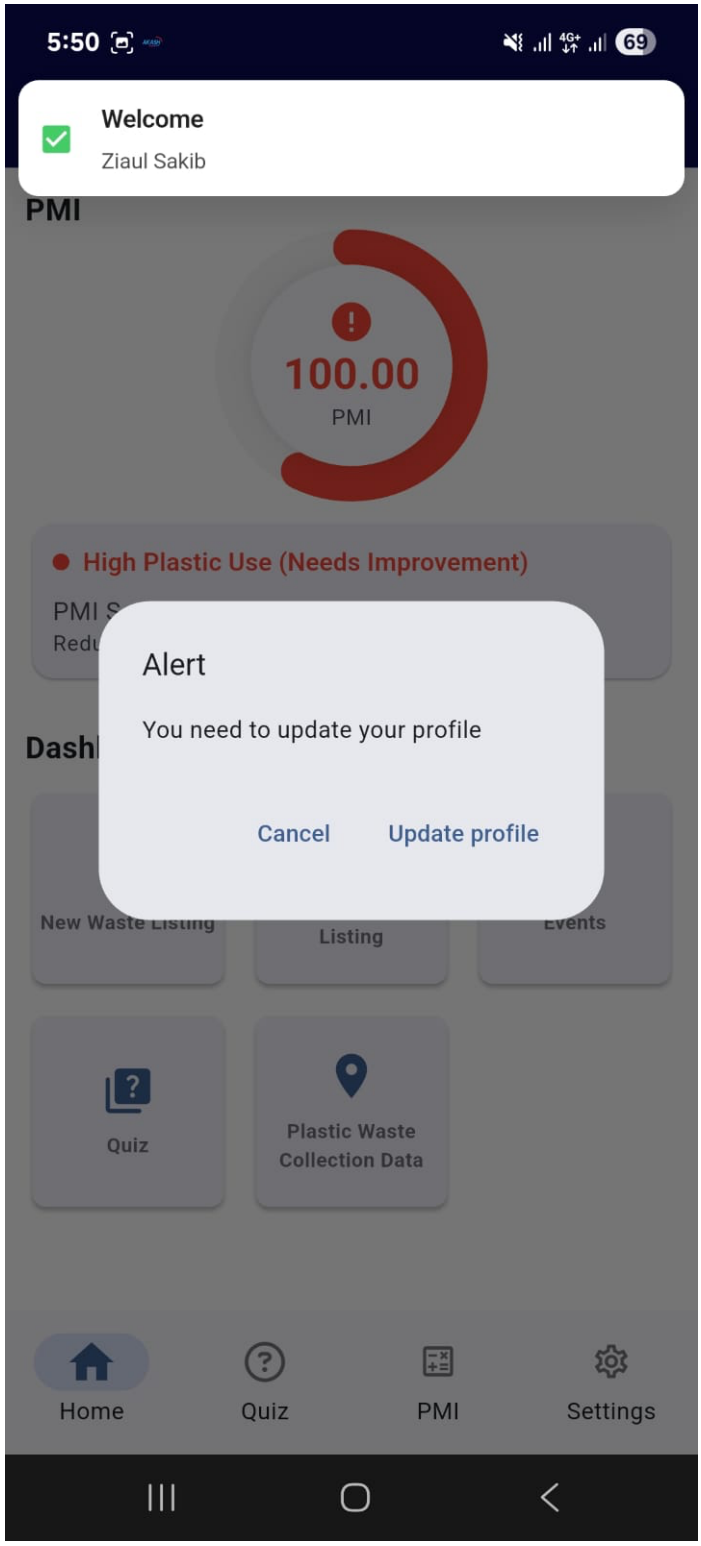
Allows the user to **Set New Password** and **Confirm Password** after OTP verification, with an error message indicating a potential data type mismatch.



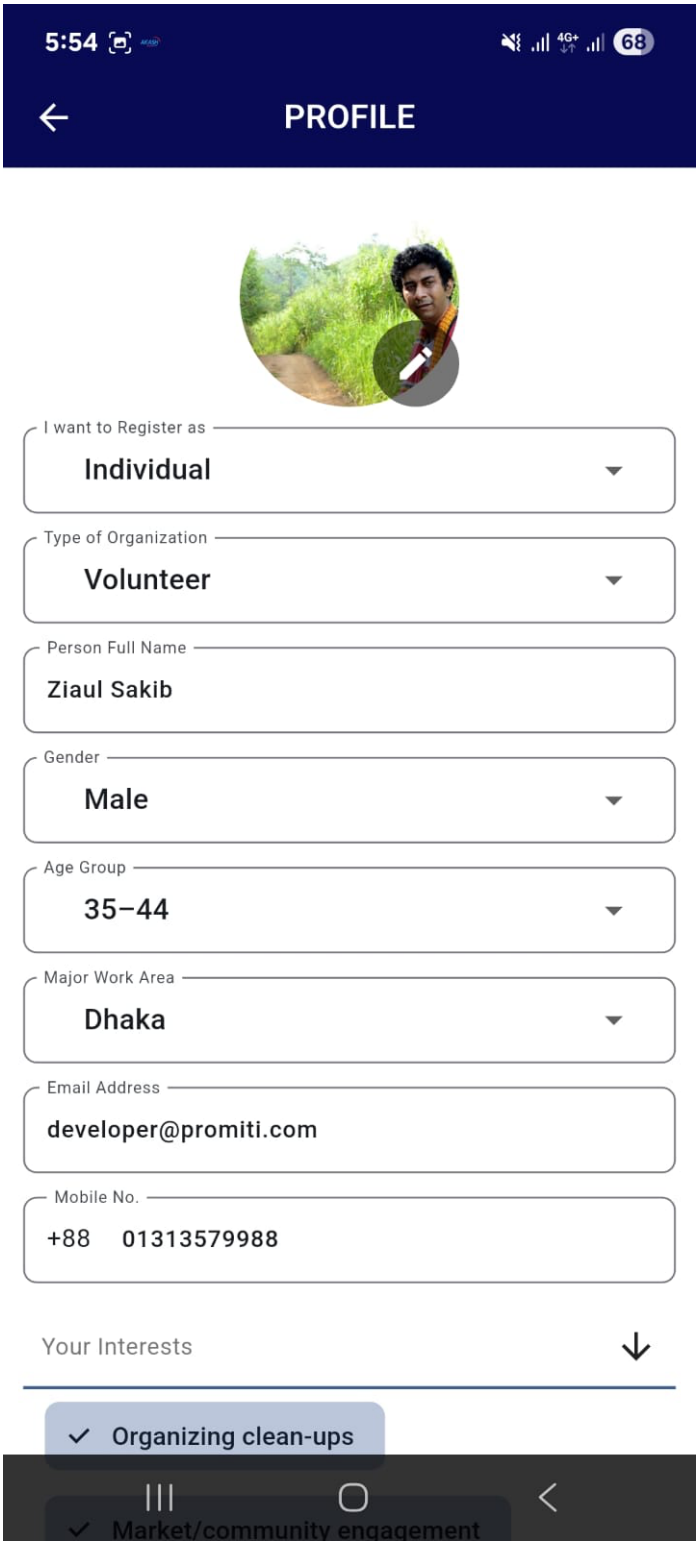
Welcome Screen.jpeg: Presents options for the user to **Login**, **Register Now**, or **Sign In With Google**, serving as the initial entry point after the splash screen.



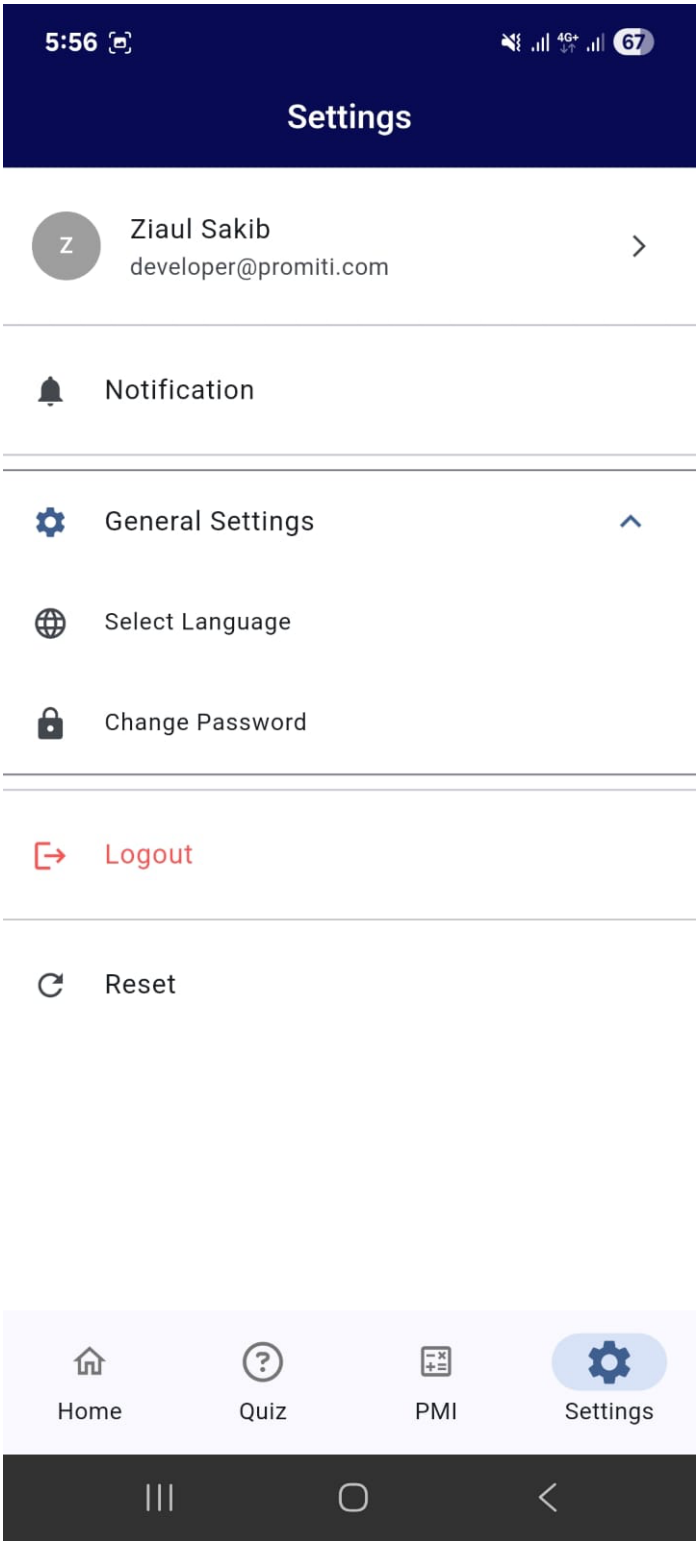
Allows users to securely log in using their **Email Address** and **Password**, with options to **Register Now** or use the **Forgot your password?** feature.



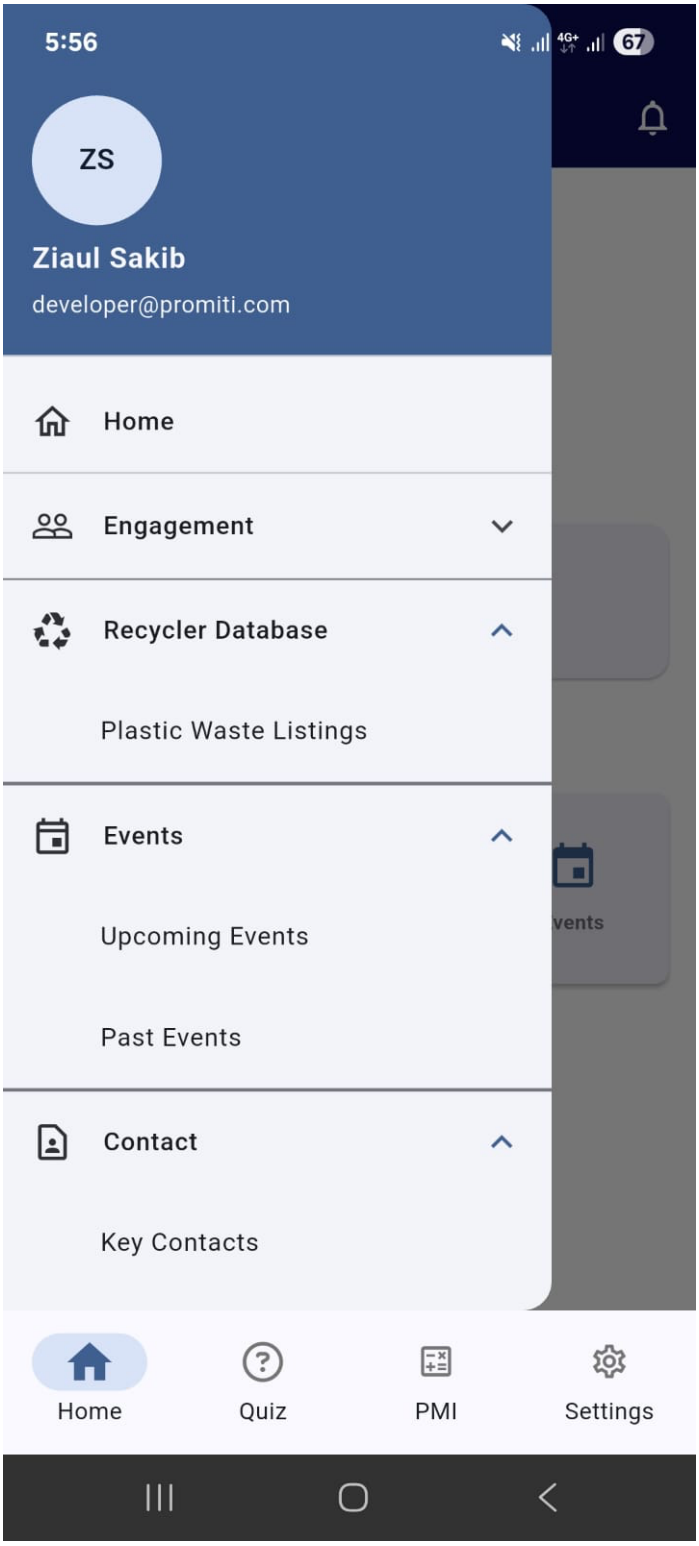
The initial view upon successful login, displaying the user's name and PMI score, and an **Alert** prompting the user to **Update profile**.



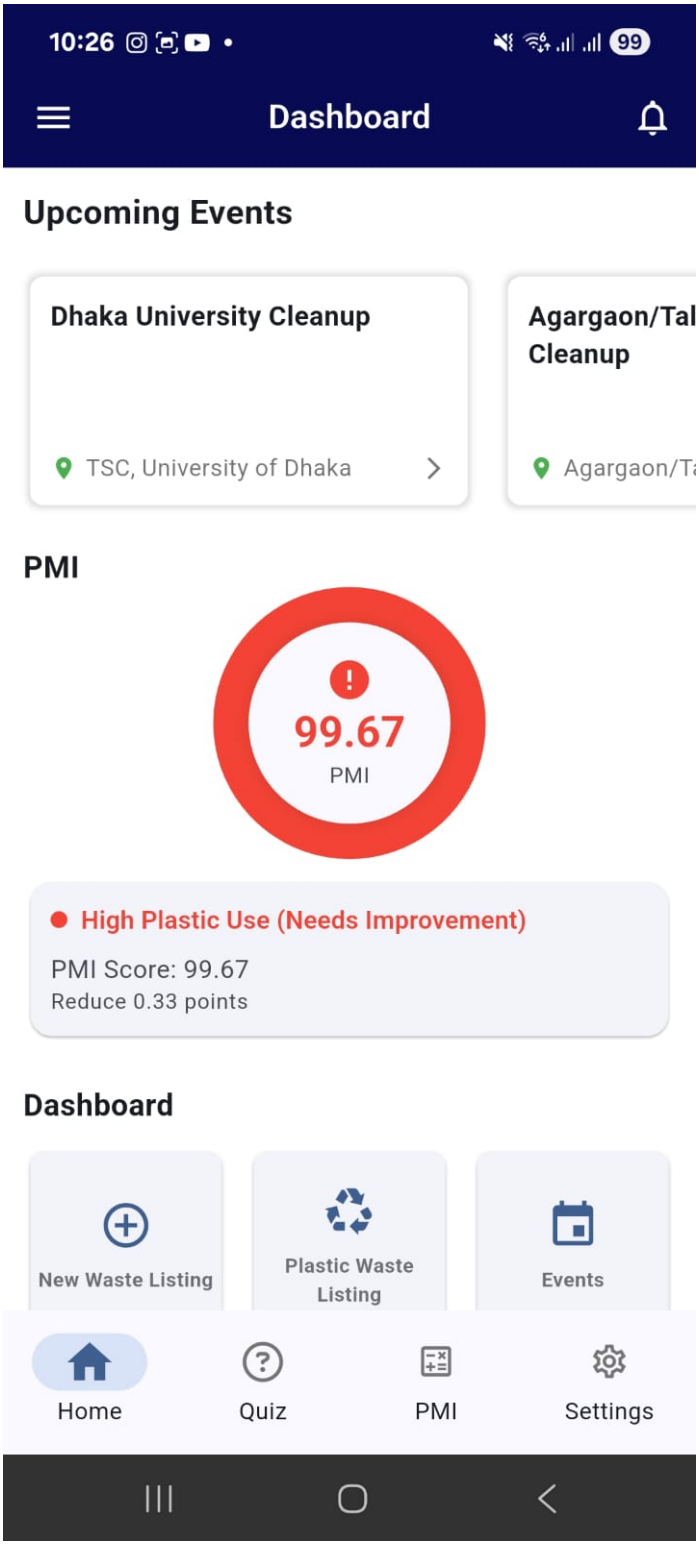
A **Profile Edit** screen that allows the user to input detailed information such as registration type, organizational role, personal details, Mobile No., and Interests.



Provides access to various application settings, including **Notification** management, **General Settings** (Select Language, Change Password), **Logout**, and **Reset** options.

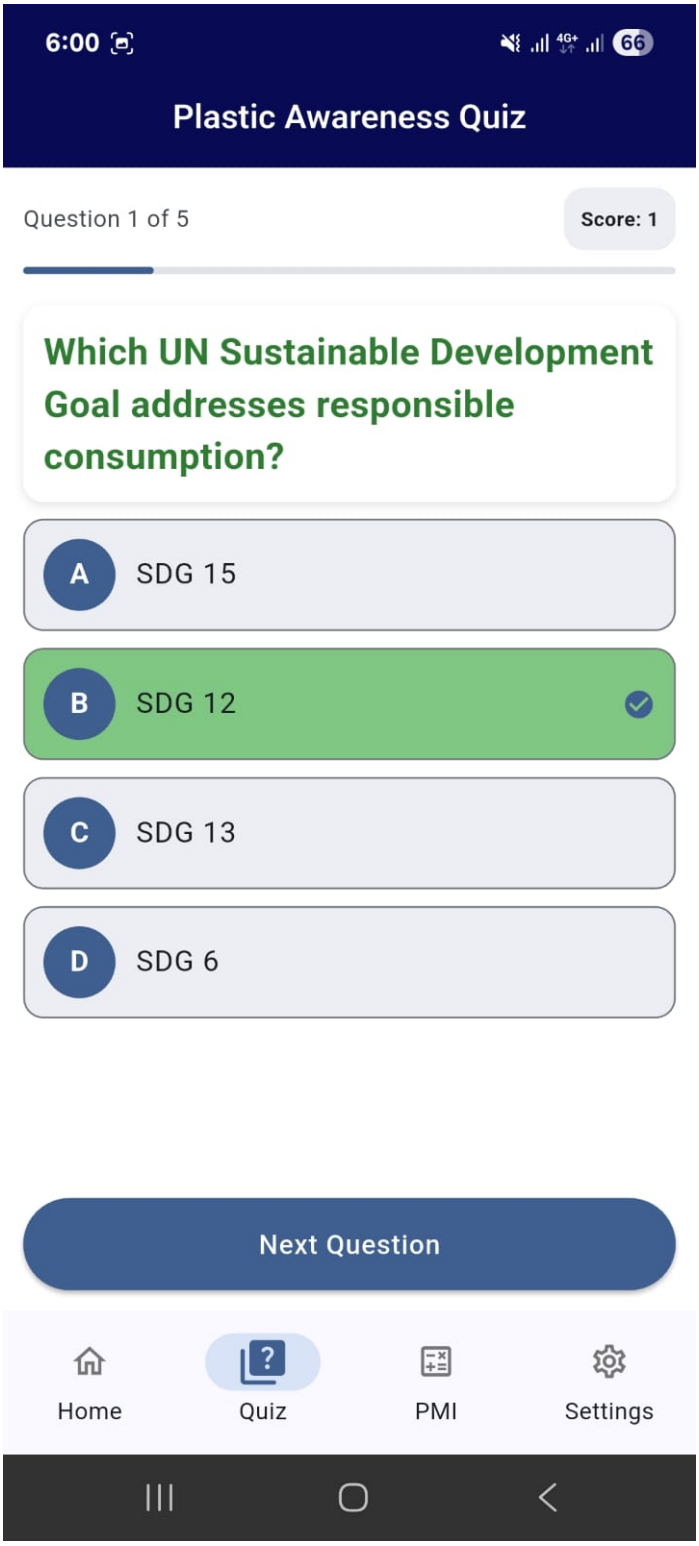


The side navigation menu showing the user's profile and providing links to key sections: **Home**, **Engagement**, **Recycler Database** (with **Plastic Waste Listings**), **Events** (with **Upcoming Events** and **Past Events**), and **Contact** (with **Key Contacts**).

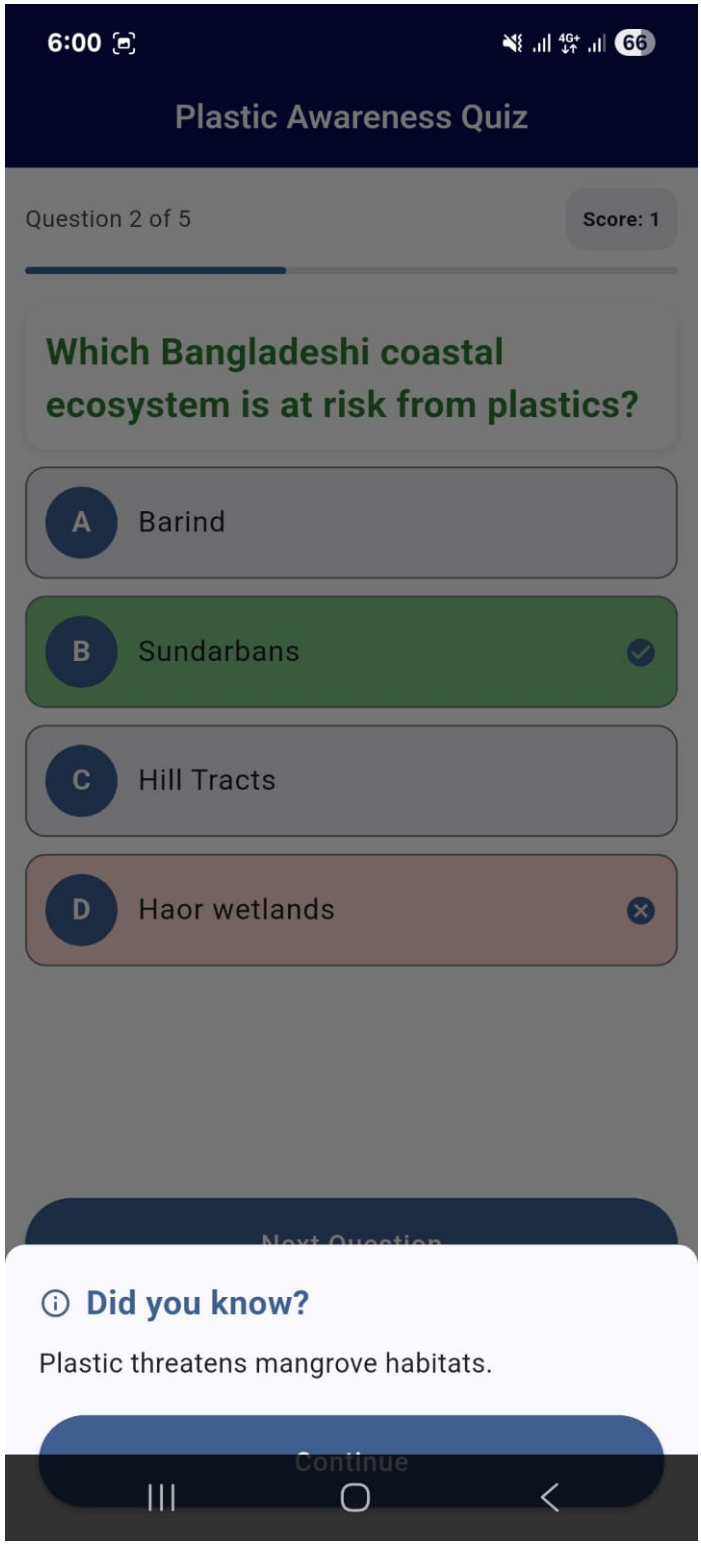


The main **Dashboard** screen displaying upcoming events, the user's **PMI** (Plastic Mass Index) score and status, and quick access buttons for **New Waste Listing**, **Plastic Waste Listing**, and **Events**.

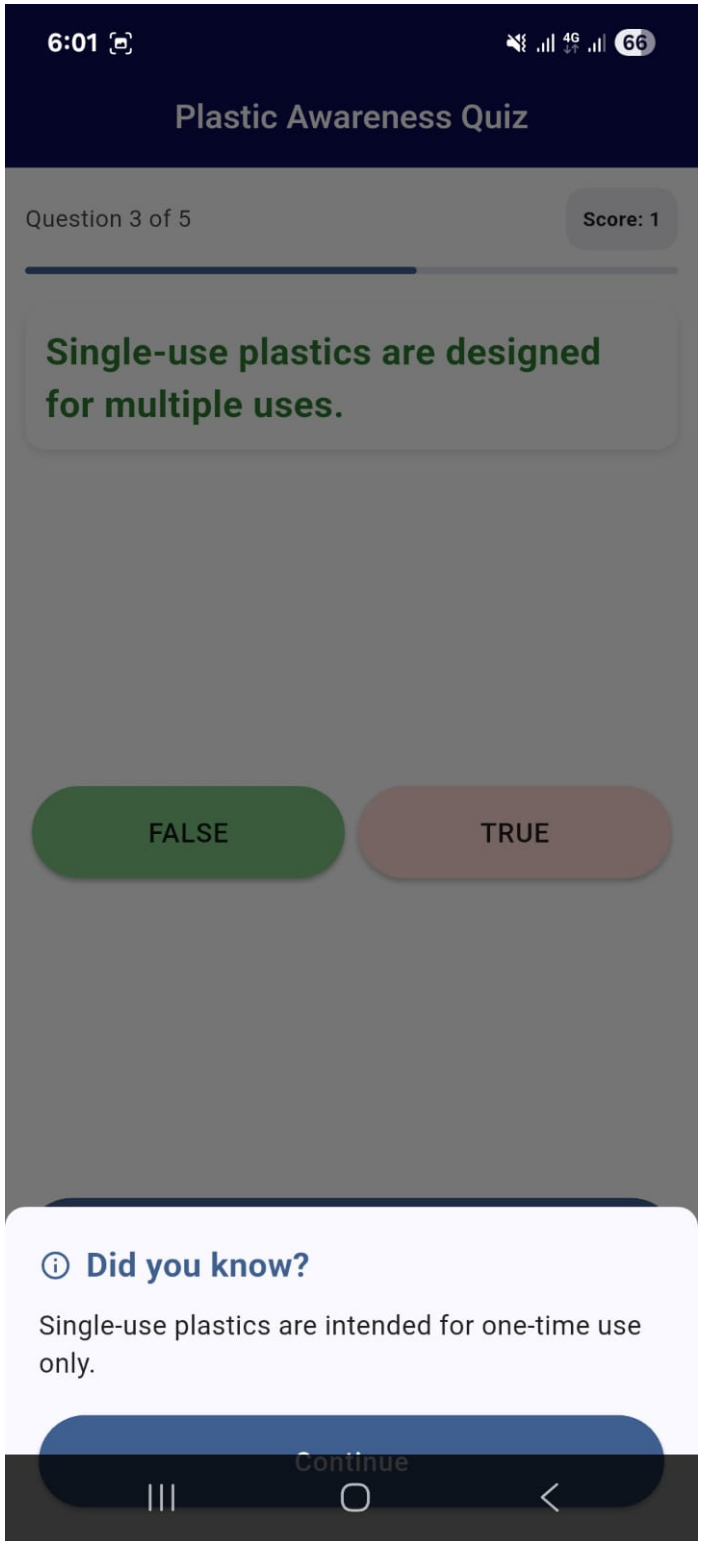
A specific settings screen under General Settings that allows the user to choose the app interface language between **English** and **বাংলা (Bangla)**.



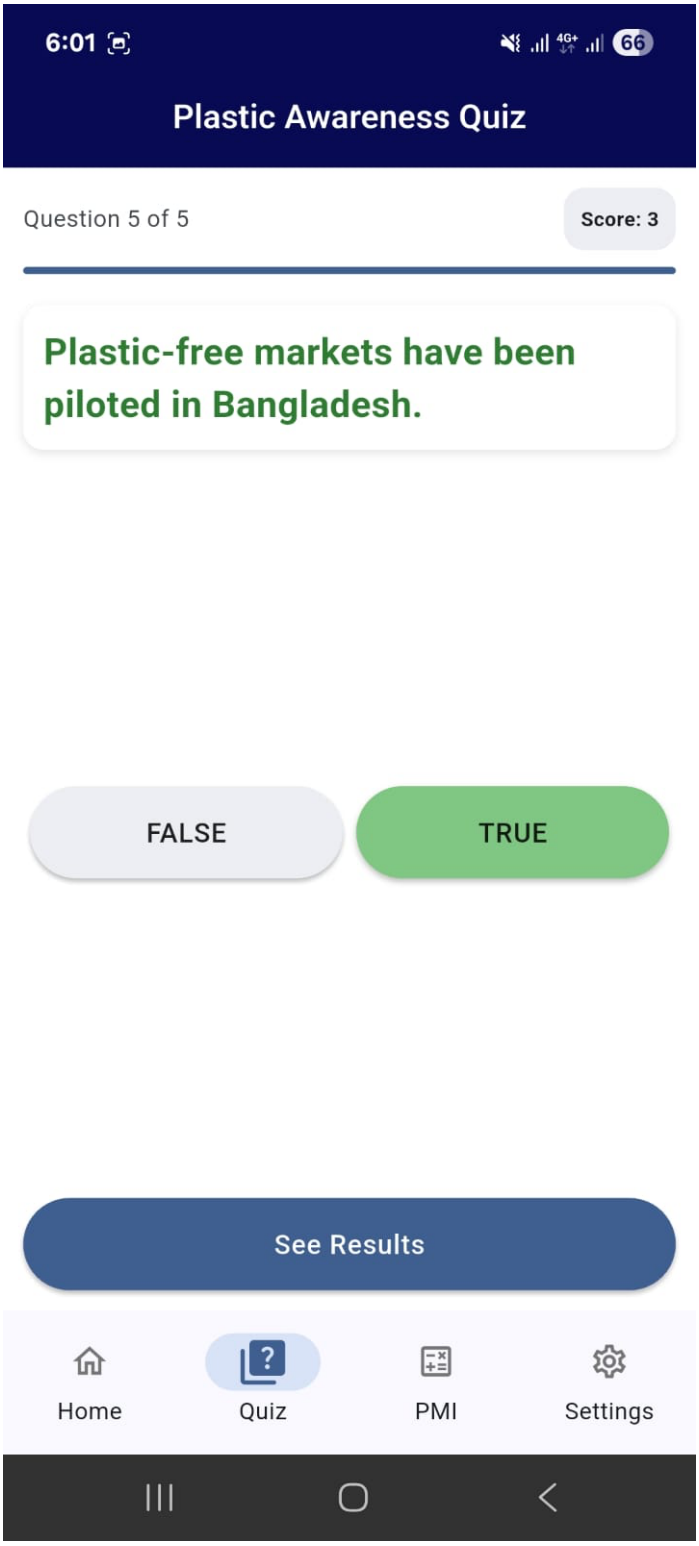
The first screen of the **Plastic Awareness Quiz**, presenting a multiple-choice question and showing the current score and navigation to the next question.



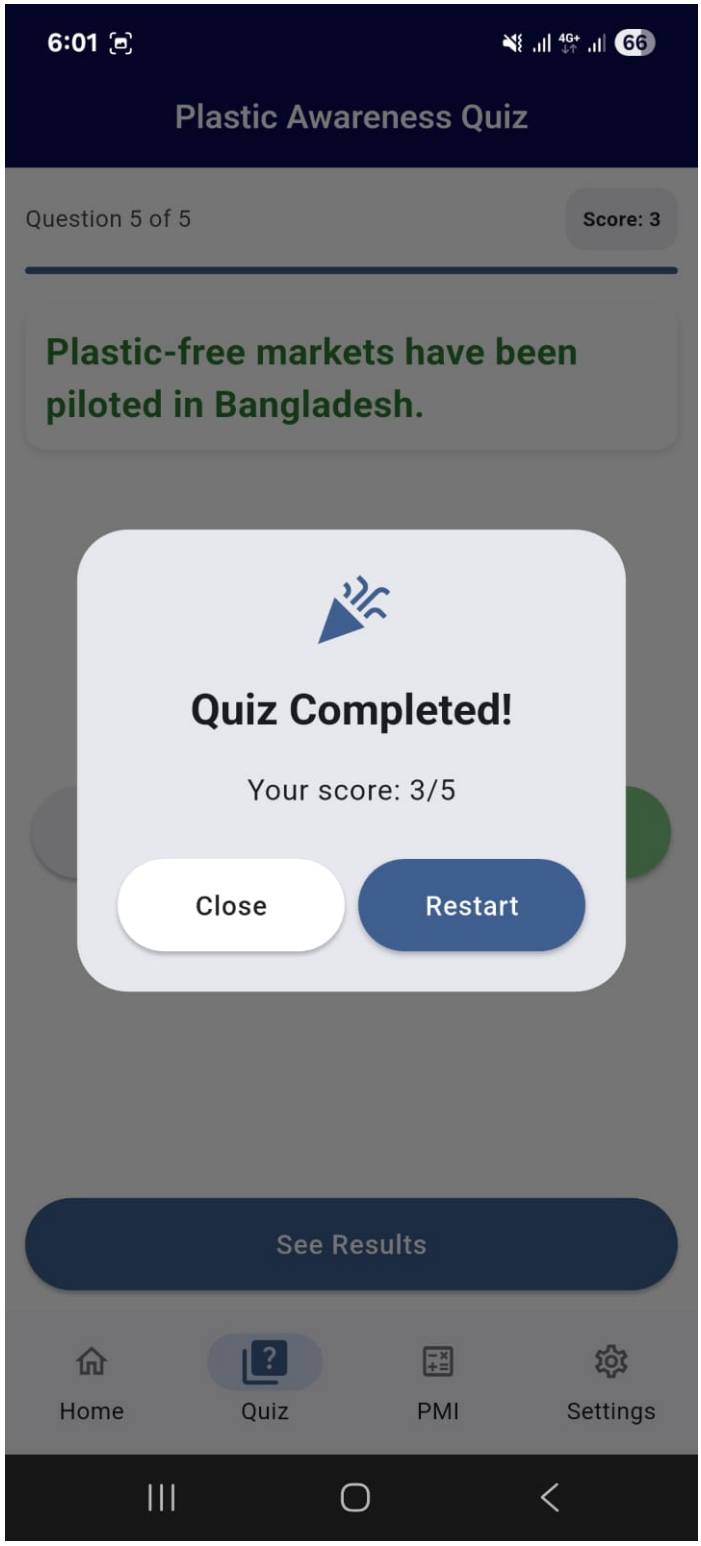
The question of the quiz, providing **feedback** on the selected answer (if answered wrong), and showing a **Did you know?** An educational pop-up.



The question of the quiz, presenting a **True/False** question and providing a **Did you know?** pop-up to educate the user on the correct concept.

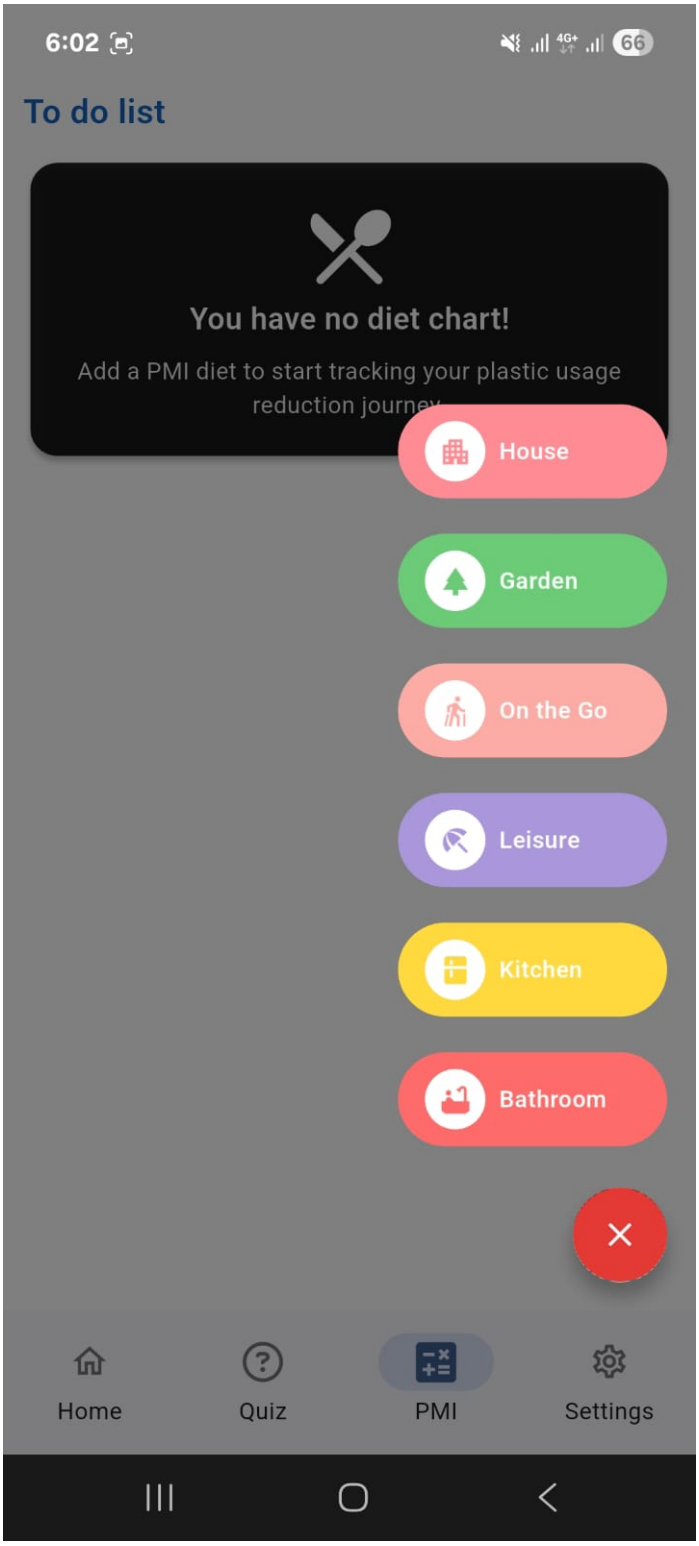


The final question of the quiz, presenting a **True/False**, with a button to **See Results**.

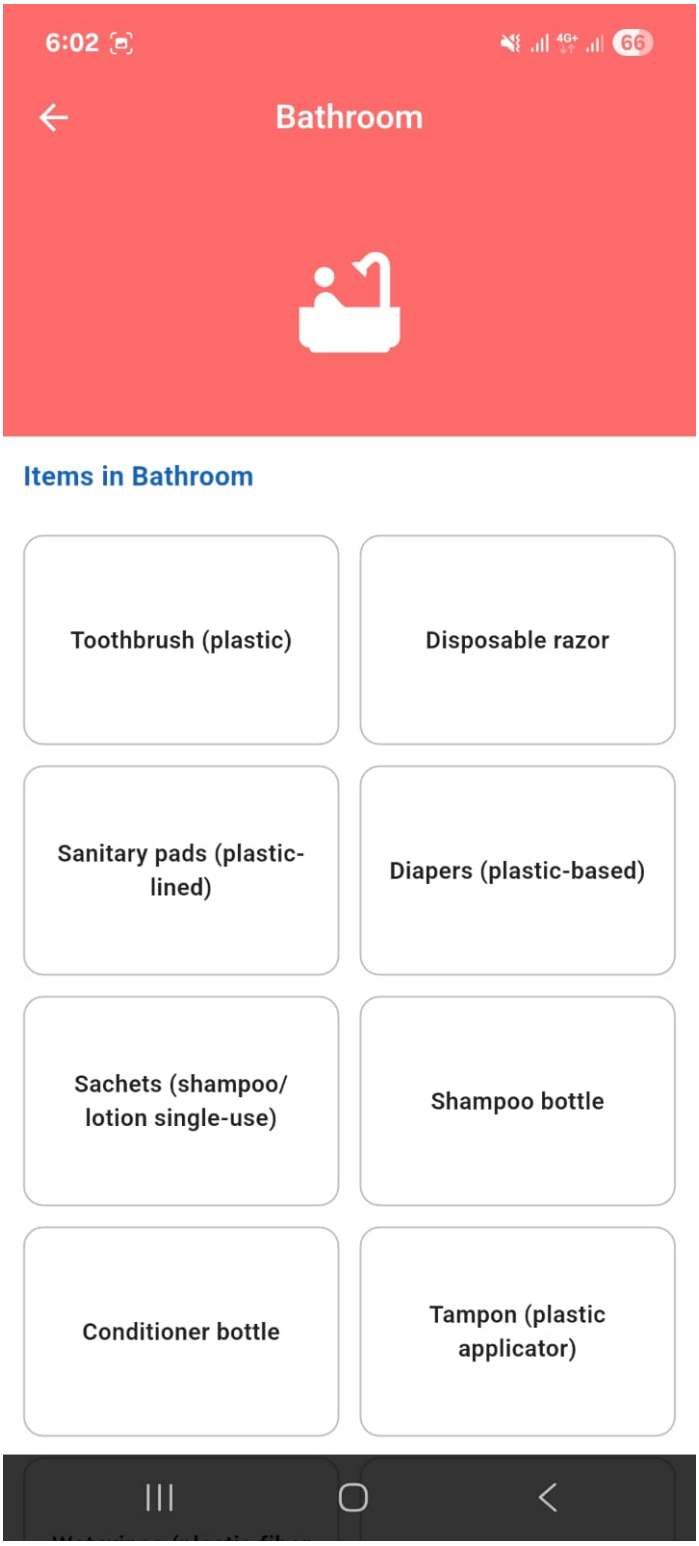


A confirmation screen that the **Quiz is Completed**, displaying the final score (e.g., **3/5**) and providing options to **Close** or **Restart** the quiz.

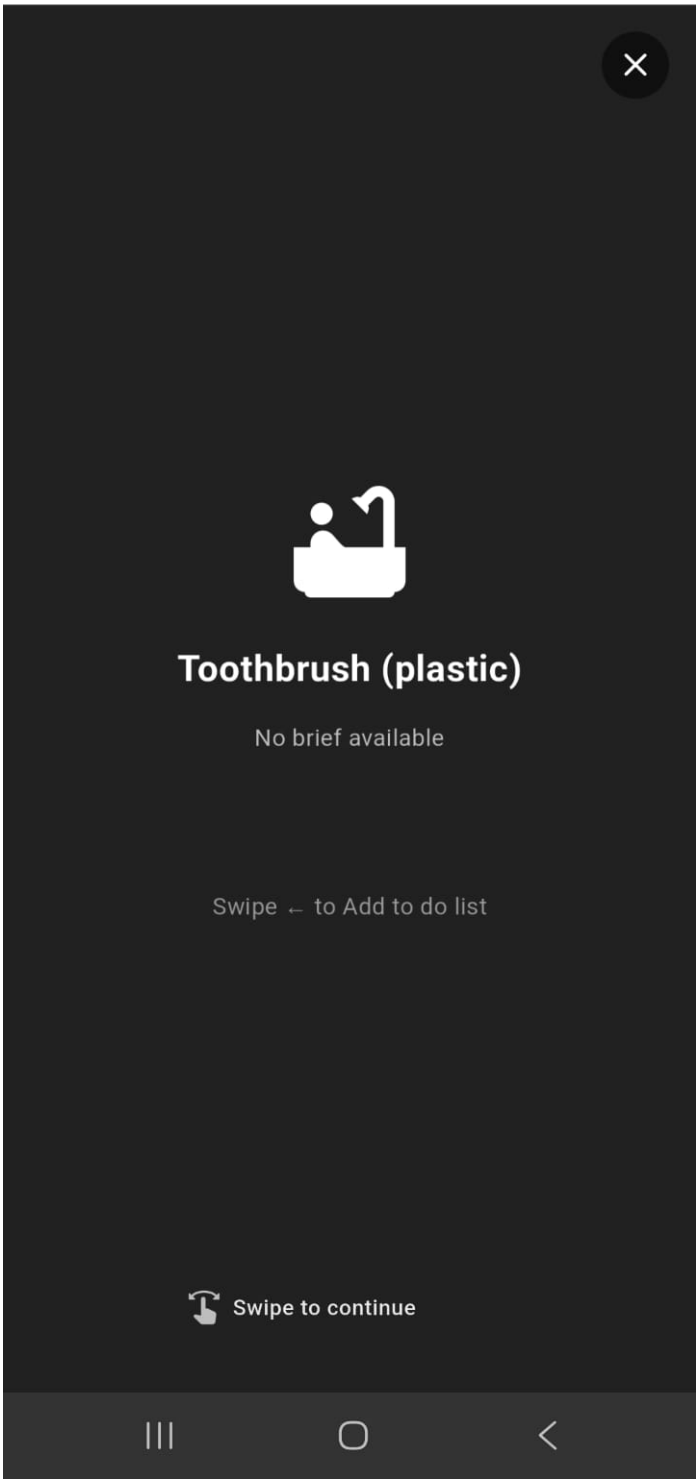
The **PMI** (Plastic Mass Index) section, which displays the user's **To do list** and indicates that **no diet chart** has been added yet for tracking plastic usage reduction.



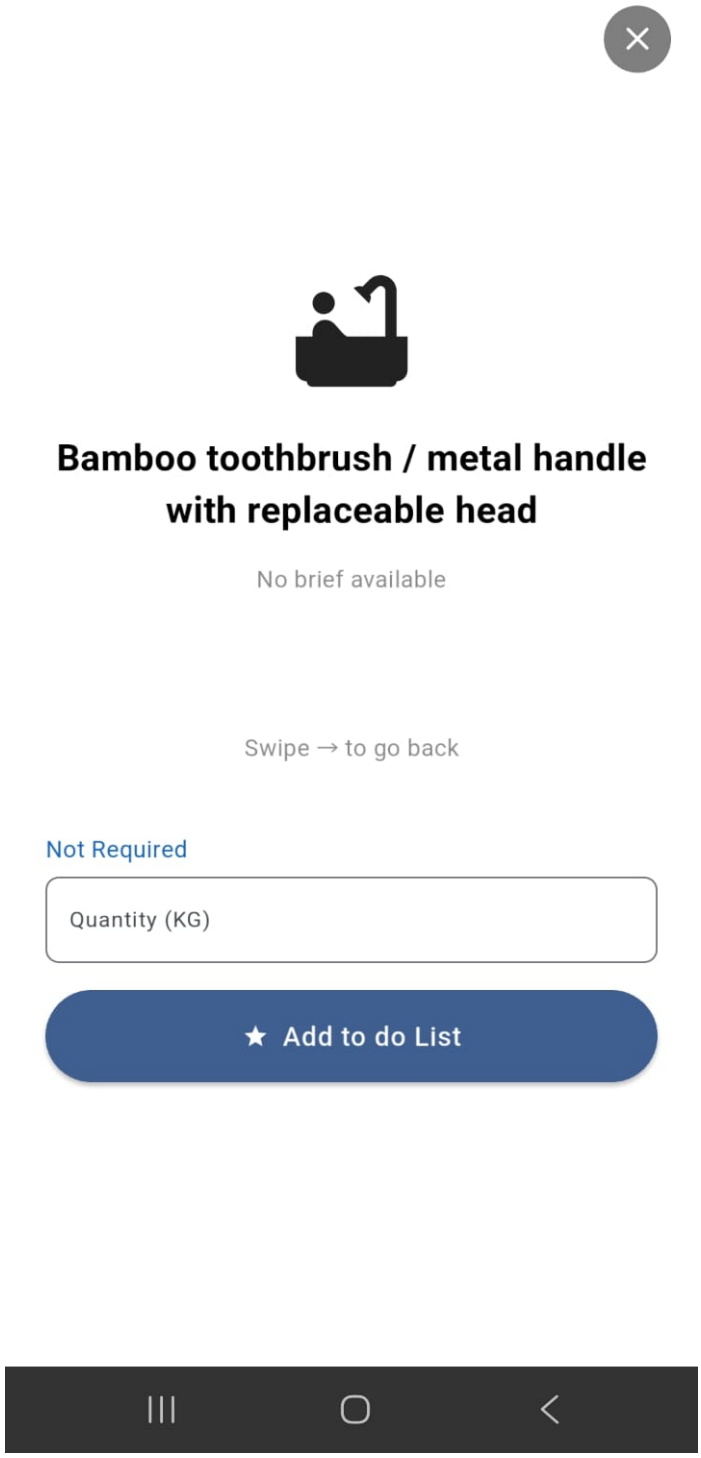
A screen under the PMI section that allows the user to select the **Area** of their life/environment (**House, Garden, On the Go, Leisure, Kitchen, Bathroom**) to start tracking plastic usage items.



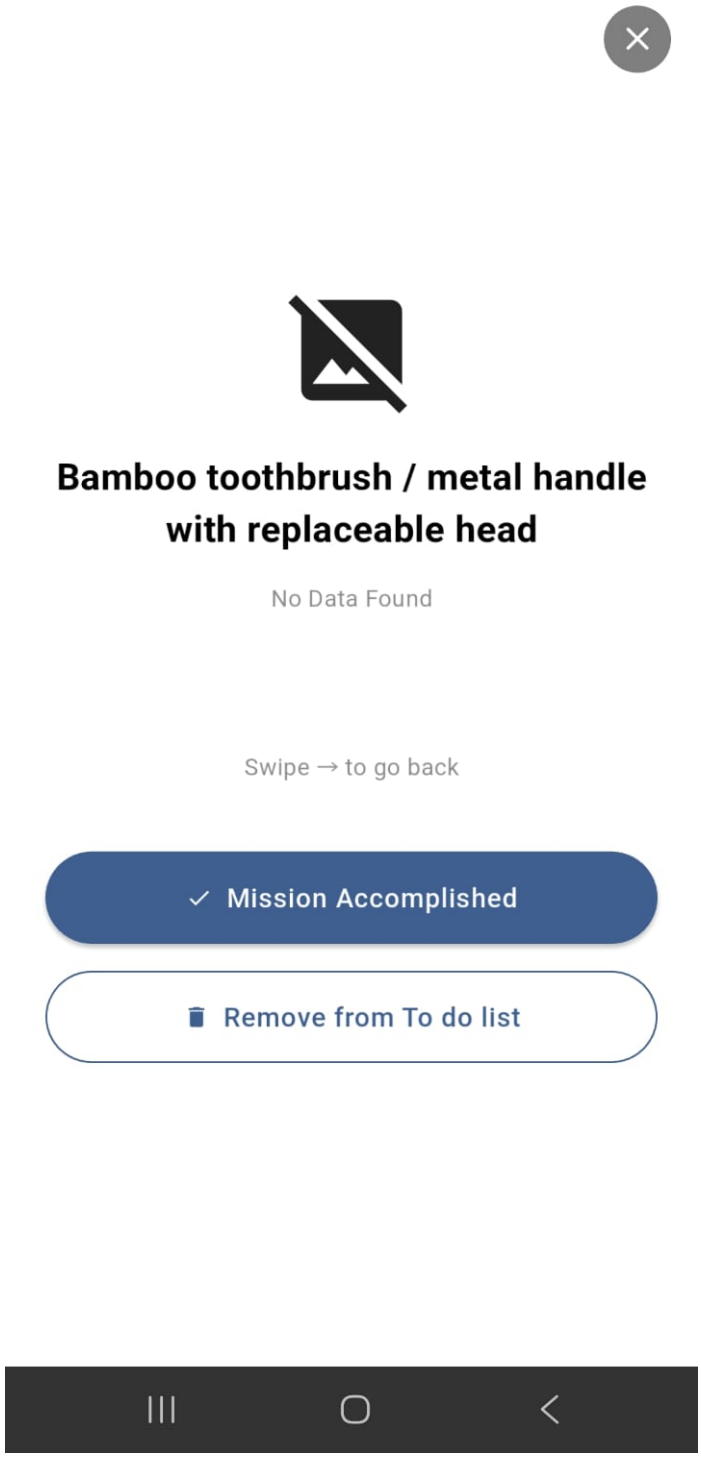
Displays a list of common **Plastic Items in Bathroom** (e.g., Toothbrush, Disposable razor, Shampoo bottle) that the user can select to track their usage.



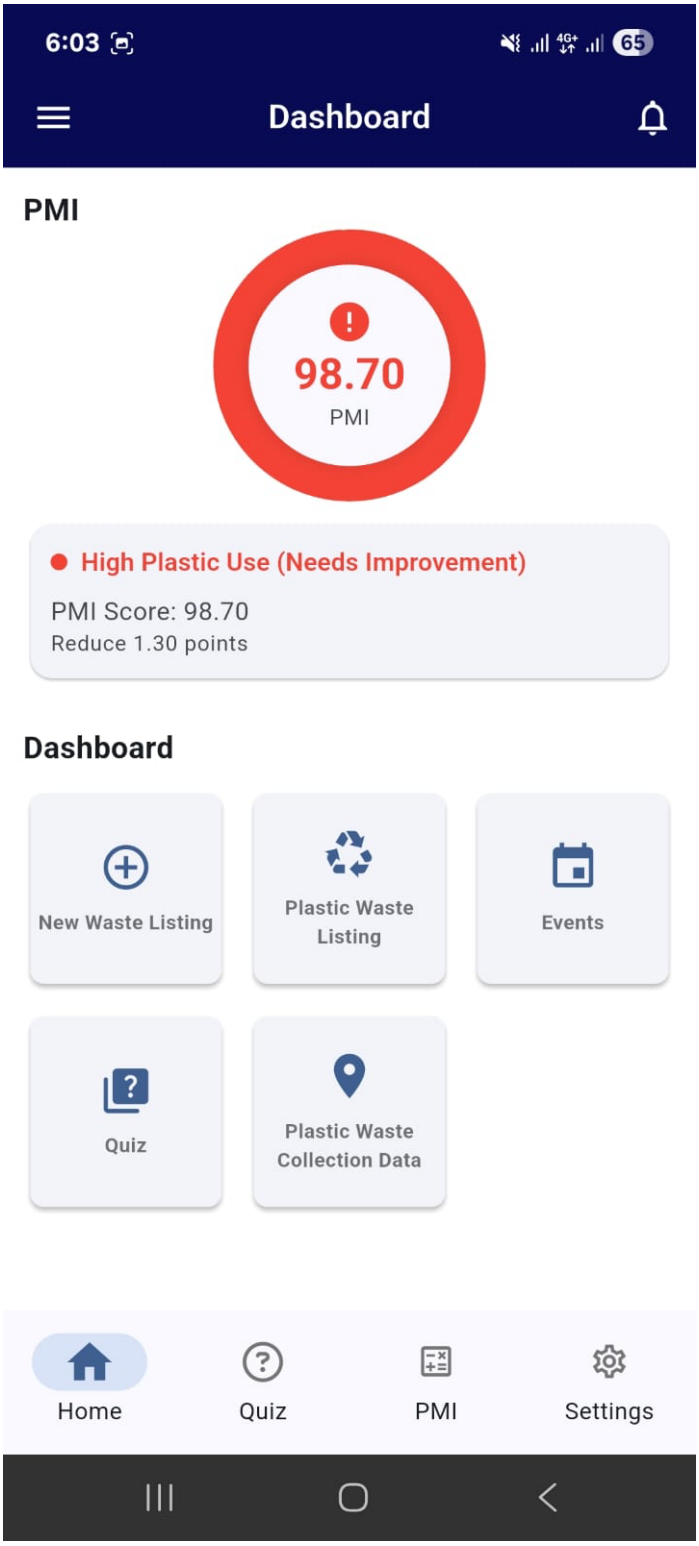
A detail screen for a specific plastic item (**Toothbrush (plastic)**) that can be **Swiped to Add to do list** for reduction tracking.



Displays a potential **Alternative** to the selected plastic item (**Bamboo toothbrush / metal handle with replaceable head**), allowing the user to specify a quantity adding it to the **To do List** or mark it as **Using Alternatives**.



A screen that appears after tracking an alternative, allowing the user to mark it as **Mission Accomplished** (indicating a successful switch) or **Remove from To do list**.



The **Dashboard** displaying the updated **PMI Score** (e.g., **98.70**), its status (**High Plastic Use (Needs Improvement)**), and providing quick access to **New Waste Listing**, **Plastic Waste Listing**, **Events**, **Quiz**, and **Plastic Waste Collection Data**.

PMI Concept

The app encourages users to go on a “plastic diet” — i.e. actively reduce usage of plastic items in daily life. User choose areas of life (bathroom, kitchen, travel, leisure, household, garden) and “add” the plastic-based items use, then gradually replace them with sustainable alternatives.

Plastic Mass Index (PMI)

To quantify one’s plastic footprint, the app uses a metric called the Plastic Mass Index (PMI). The PMI is a score from 0 to 100: the closer to zero, the lower your contribution; the closer to 100, the more plastic you are “responsible” for. By following the plastic diet and adopting alternatives, users aim to reduce their PMI over time.

Sustainable Alternatives & Item Focus

The app focuses on everyday plastic items in the main areas of life (bathroom, kitchen, etc.). For each plastic item you “add” to your diet, the app presents a sustainable alternative you can aim to switch to. The goal is not just to avoid plastics, but to replace them with better, more sustainable options.

PMI Calculation

For each item, the item's baseline is multiplied by its corresponding **factoral** based on the user's status.

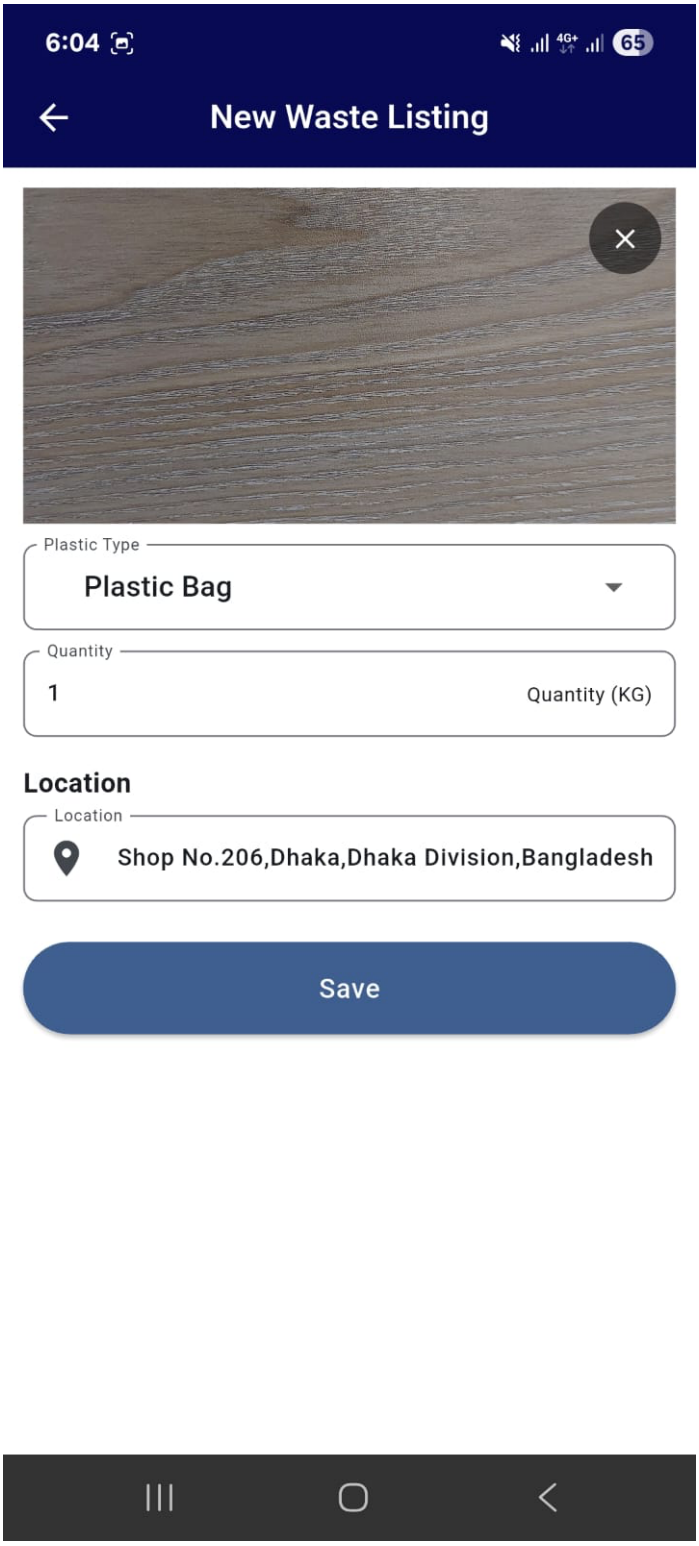
- A minimum effective score of of the item's baseline score is enforced: .
- The effective scores of all tracked items are summed to get .

Calculate Reduction Percentage (): The user's total impact is converted to a percentage of the maximum possible impact:

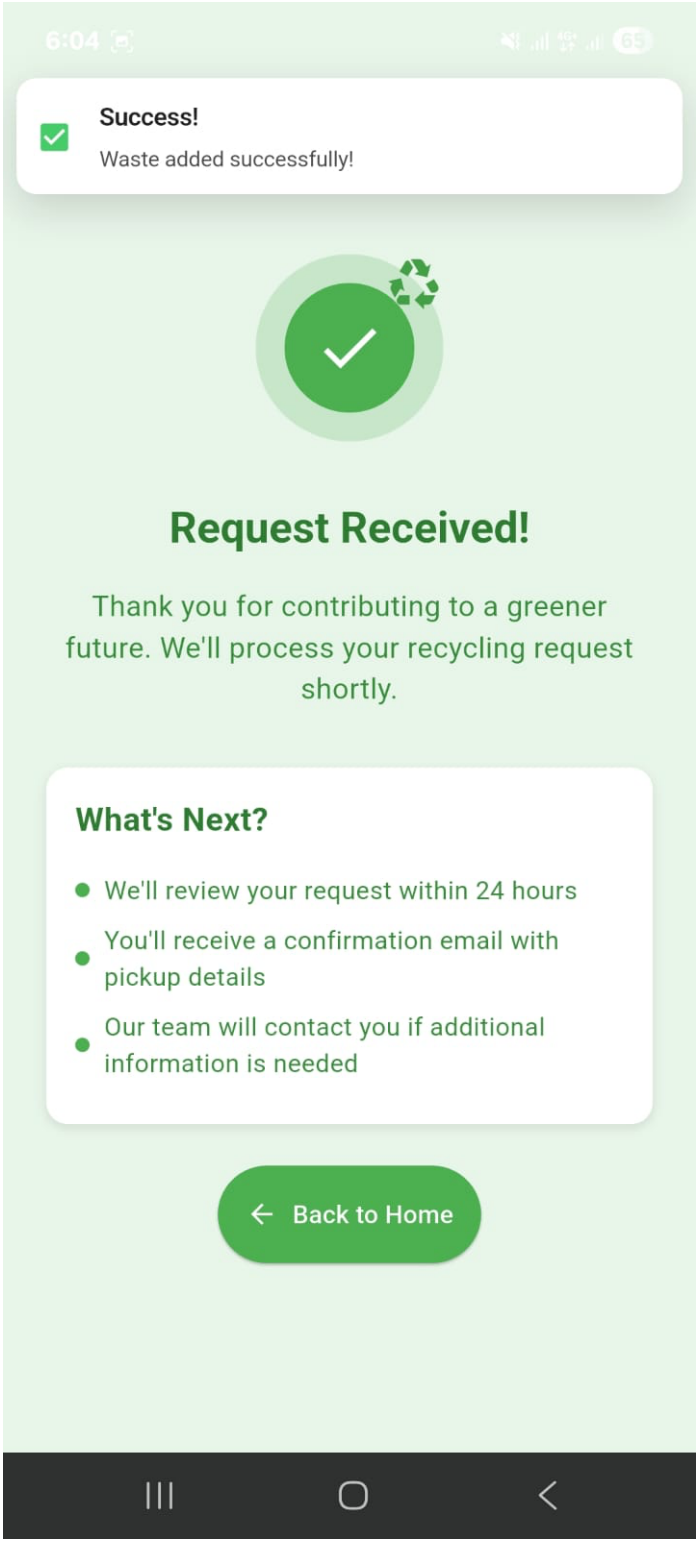
$$\text{reduction} = \text{round}\left(\left(\frac{\text{total_pmi}}{\text{max_pmi}}\right) \times 100, 2\right)$$

Calculate Final PMI Score (): The final PMI is an inverse score, representing the user's success in reducing their plastic impact. A lower reduction percentage results in a higher PMI score (closer to 100).

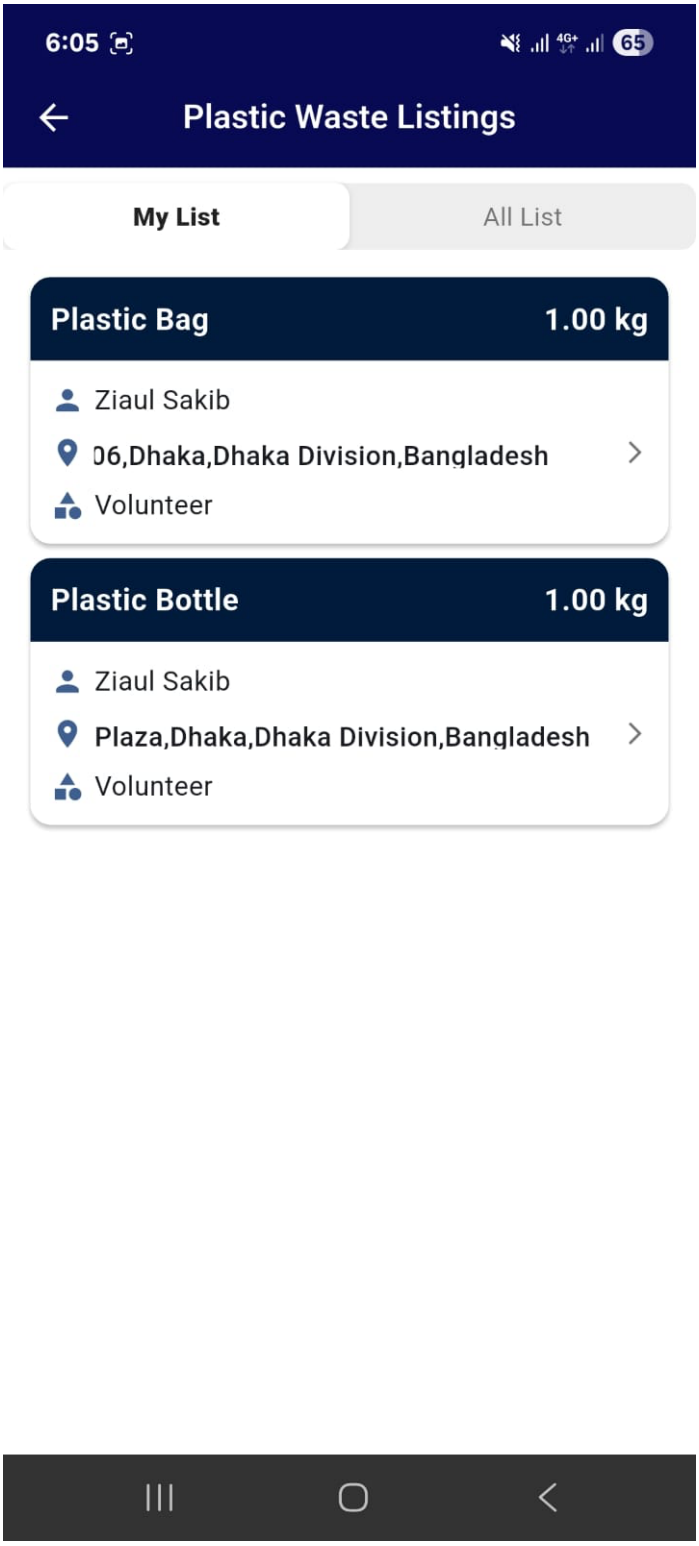
$$\text{pmi_score} = \text{round}(100 - \text{reduction}, 2)$$



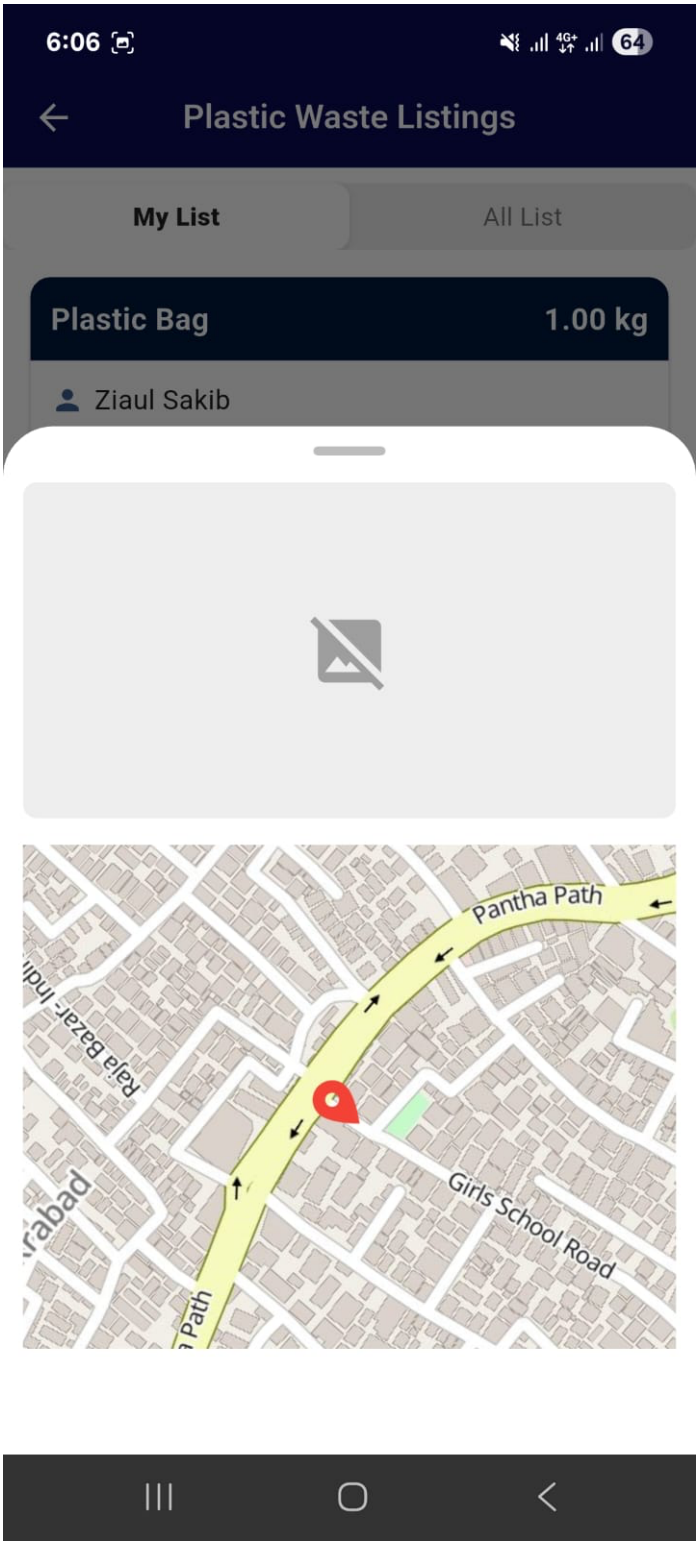
The **New Waste Listing** screen, allowing the user to upload an image and input the **Plastic Type** (e.g., Plastic Bag), **Quantity (KG)**, and **Location** for plastic waste collection.



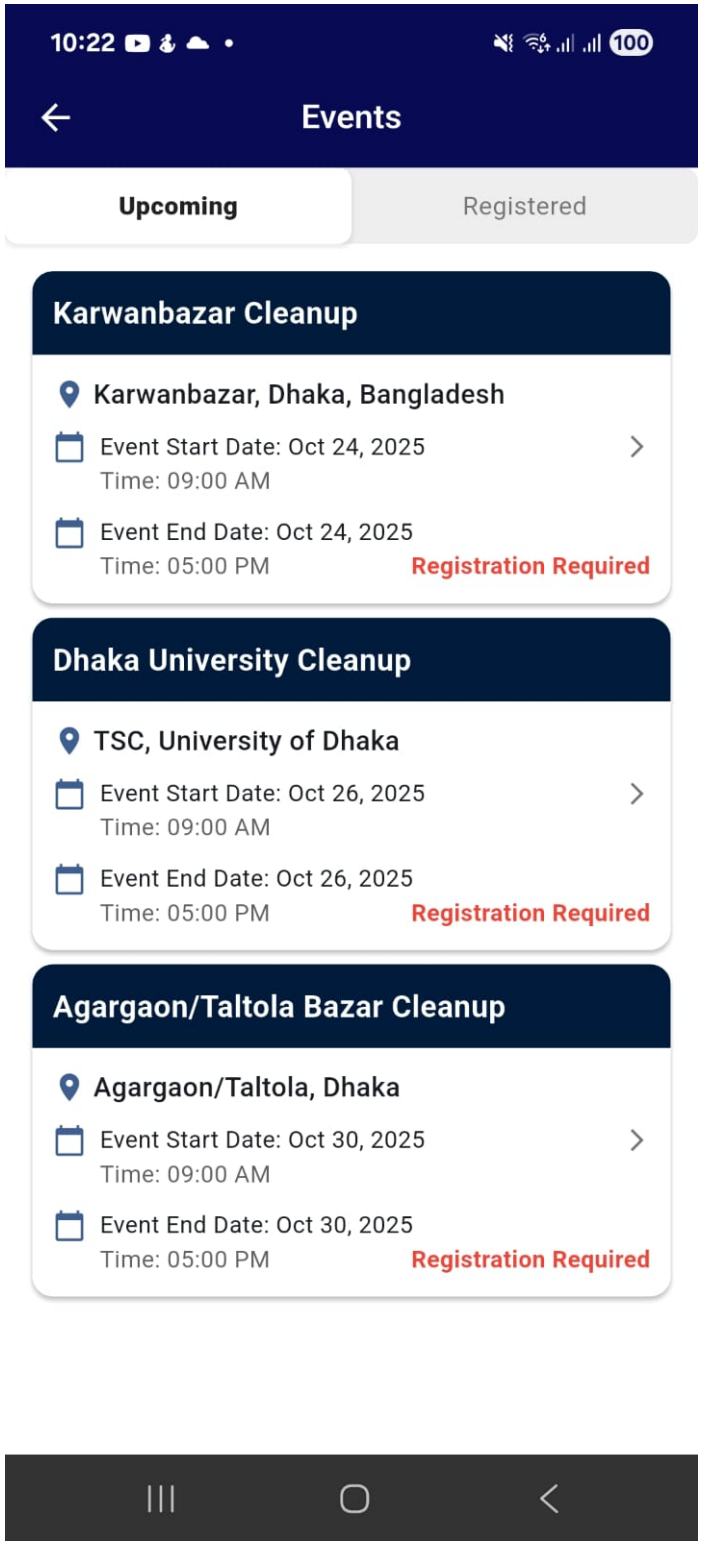
A **Request Received!** success screen that confirms the user's waste listing has been successfully added and details the next steps for processing the recycling request.



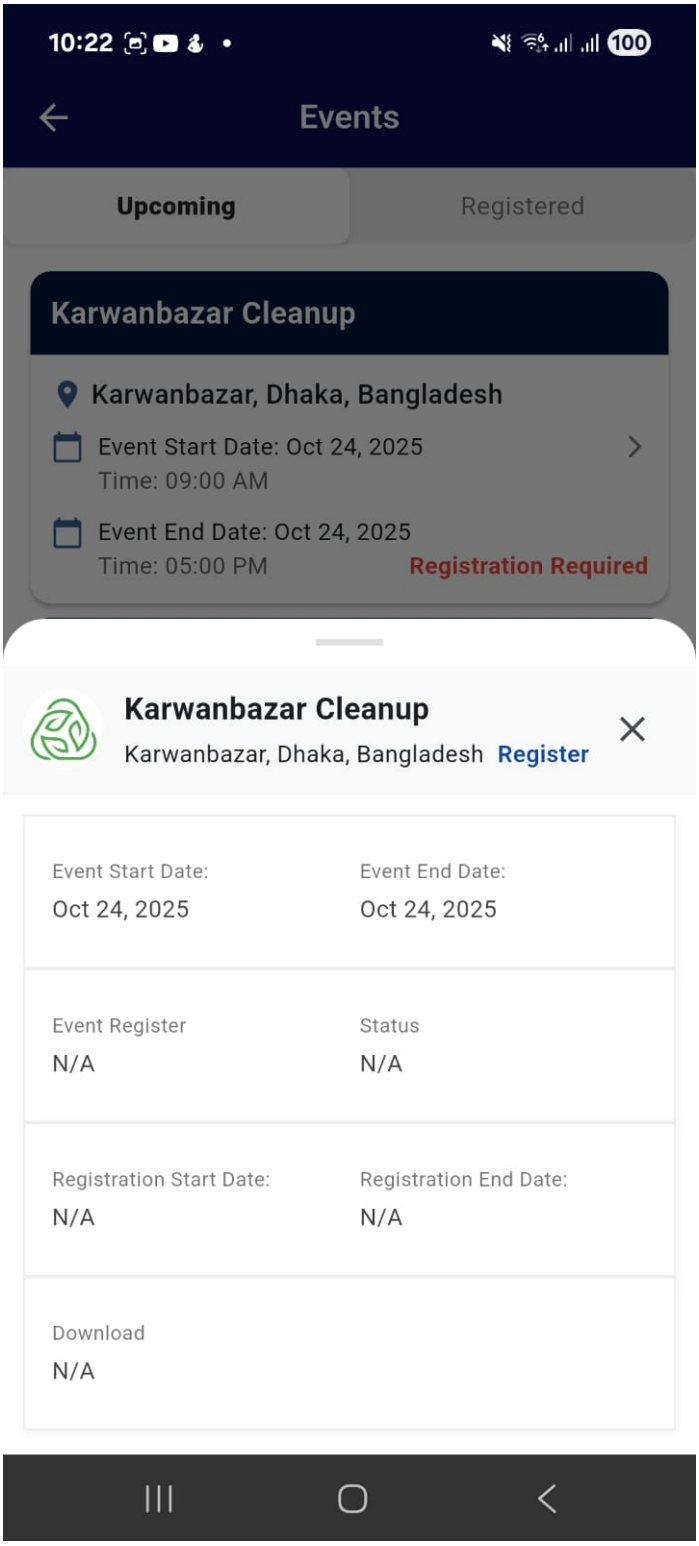
The **Plastic Waste Listings** screen, which displays a categorized list of waste submissions, toggleable between **My List** (user's submissions).



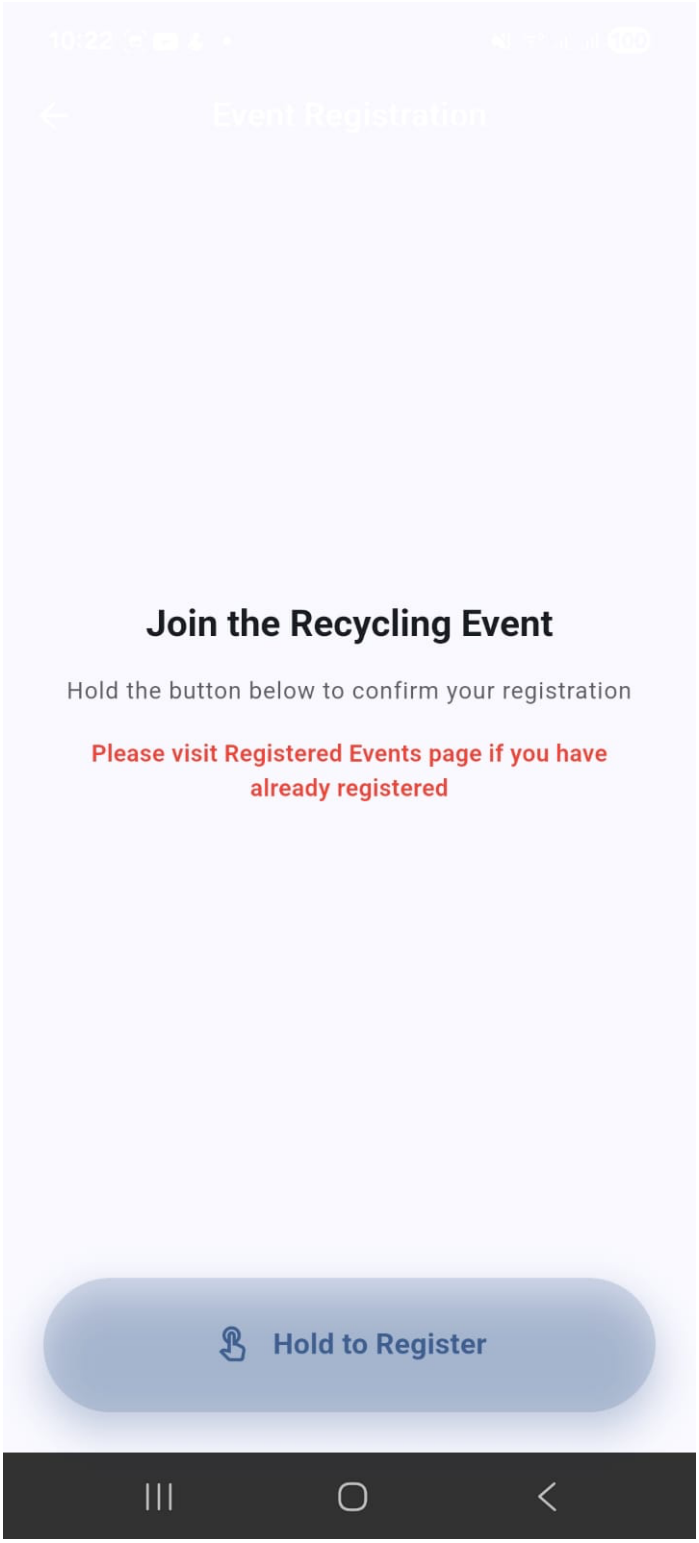
A map view modal that appears when a user taps a waste listing, showing the precise **Plastic Waste Collect Area** location marked with a pin.



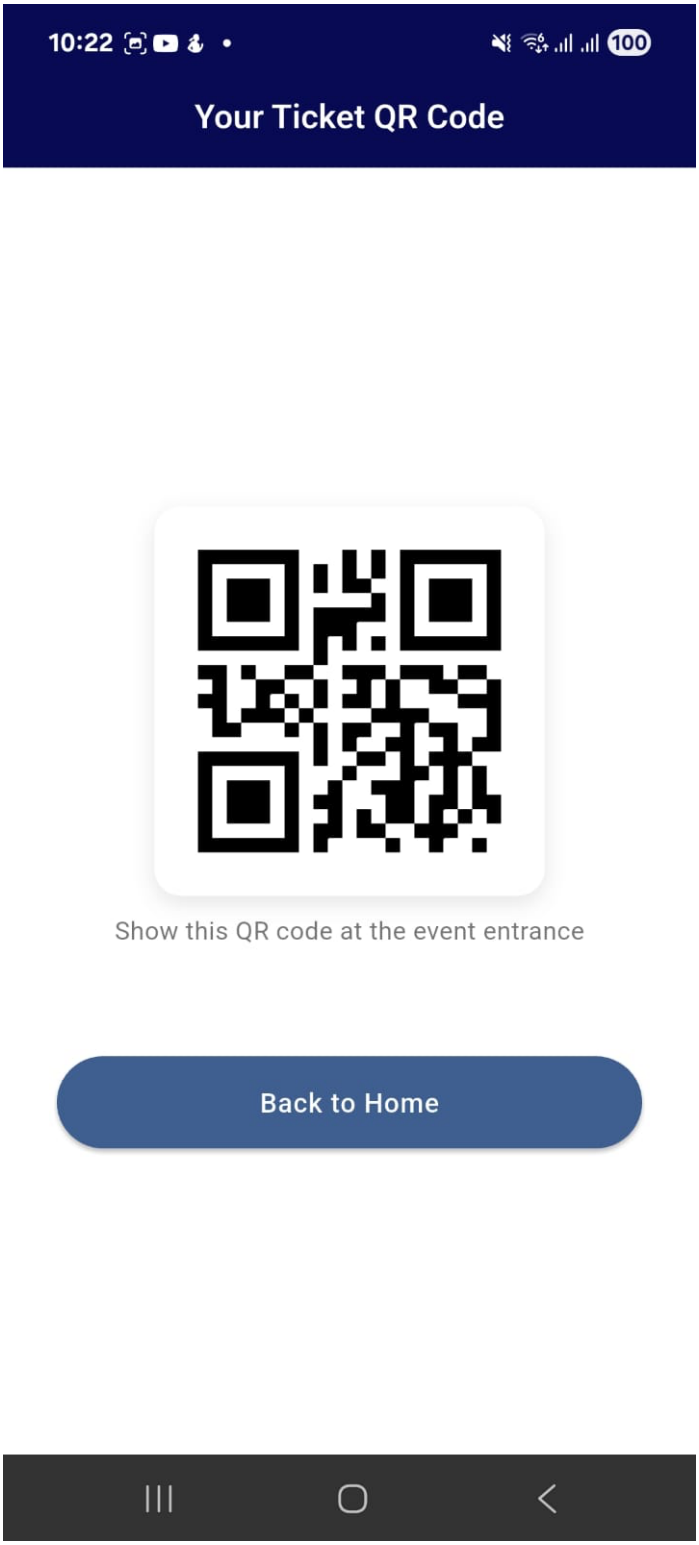
The main **Events** screen, organized into **Upcoming** and **Registered** tabs, listing details like event name, location, and date/time for various cleanup events, indicating **Registration Required** for each.



A modal displaying detailed information about a selected event (e.g., **Karwanbazar Cleanup**), including start/end dates, registration status, and a **Register** link.



A screen to confirm participation in a recycling event, prompting the user to **Hold to Register** and providing instructions to check the Registered Events page.



The final screen upon successful event registration, displaying the user's **Ticket QR Code** to be shown at the event entrance.