

progear

User Manual



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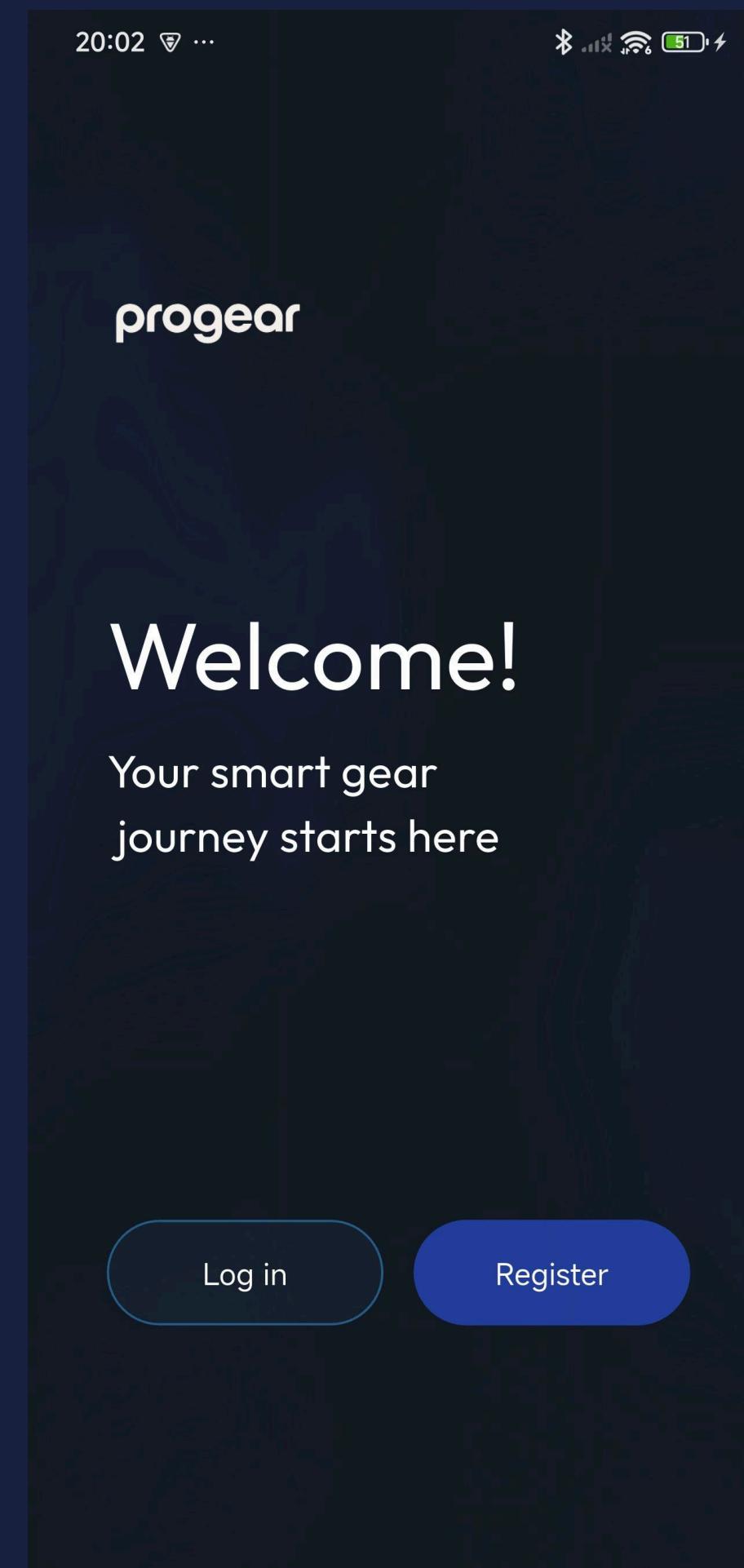
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1. Introduction

ProGear Smart Bag is a smart weight-based tracking system designed for athletes who want to ensure all essential training gear is packed before heading to the gym.

The system integrates load-cell sensors, an ESP32 microcontroller, and a mobile application to continuously monitor the bag's weight and notify the user when an item appears to be missing.

This manual provides a step-by-step guide for using the mobile application and understanding each screen's functionality.



2. System Requirements

- iOS or Android device
- Bluetooth enabled
- Smart bag powered on
- Stable surface for accurate weight reading

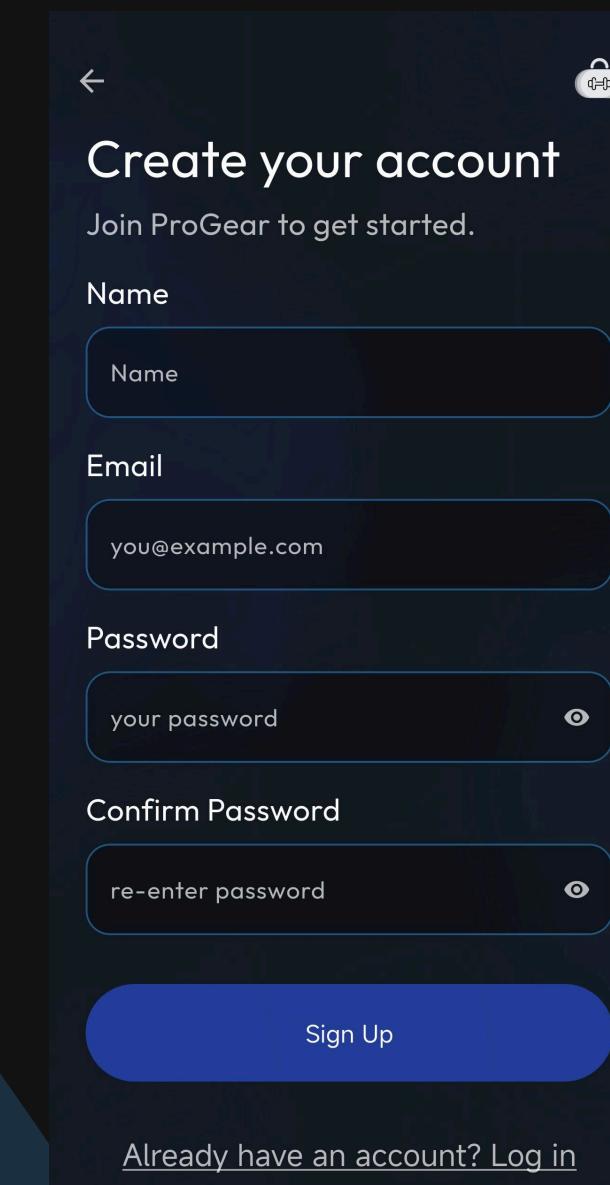
3. Getting Started

3.1 Create an Account

This screen allows new users to register and link their profile to the ProGear Smart Bag.

Steps:

1. Enter name, email, and password.
2. Tap Sign Up.
3. The system will redirect to the Sign In page once registration is complete.



A screenshot of the 'Create your account' form. It includes fields for Name, Email (with placeholder 'you@example.com'), Password (placeholder 'your password'), Confirm Password (placeholder 're-enter password'), and a 'Sign Up' button. Below the form is a link 'Already have an account? Log in'.

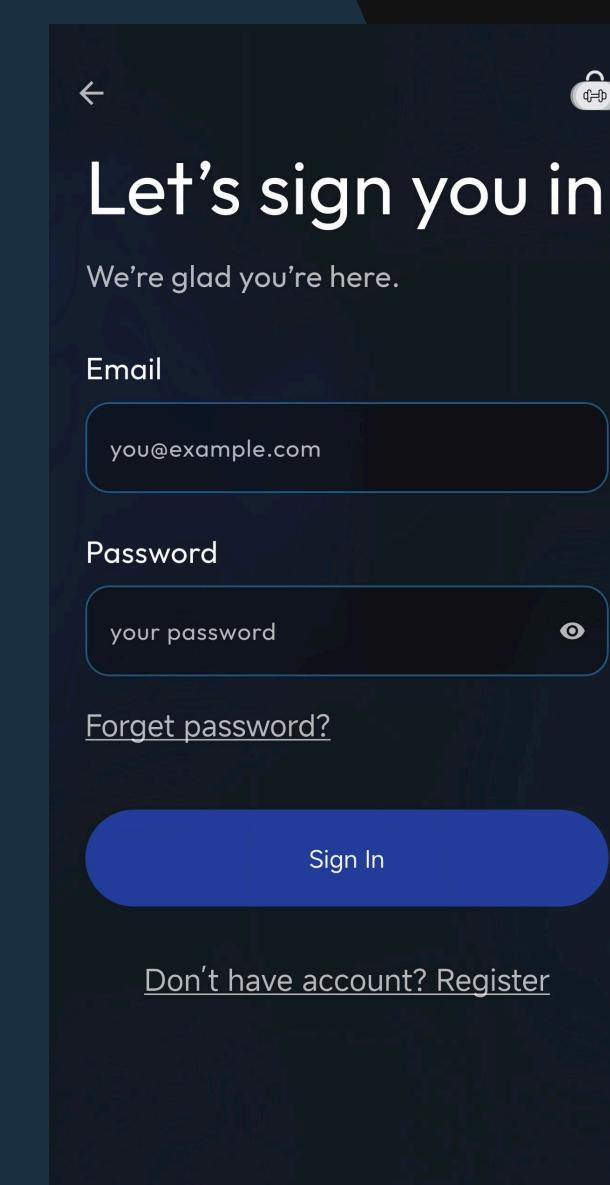
3.2 Sign In

Steps:

- Enter email and password.
- Tap Sign In.

Error Case:

If the password is incorrect, a warning message appears informing the user to verify their credentials.



A screenshot of the 'Let's sign you in' form. It includes fields for Email (placeholder 'you@example.com') and Password (placeholder 'your password'). There is also a 'Forget password?' link and a 'Sign In' button. Below the form is a link 'Don't have account? Register'.

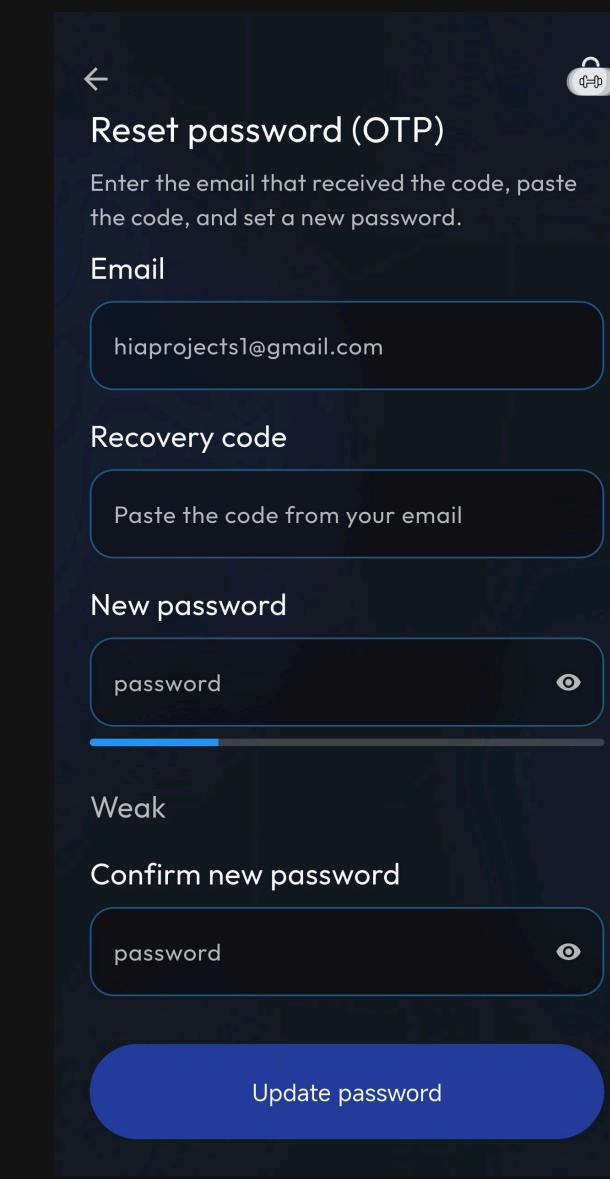
 Email or password is incorrect.

3.3 Forgot Password

Used when the user cannot access their account.

Steps:

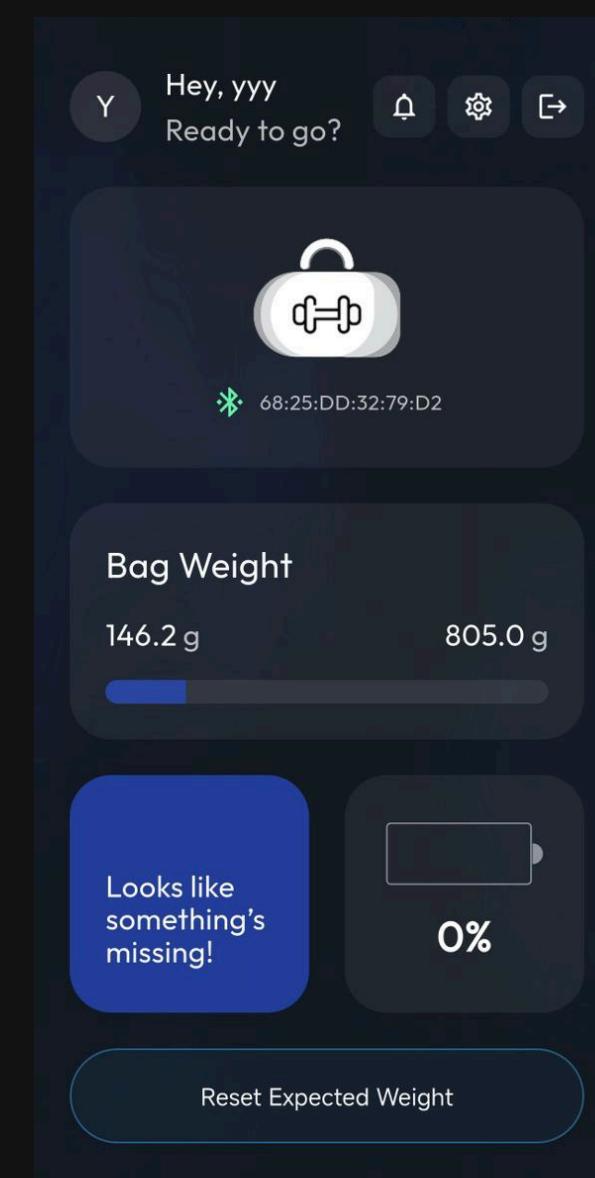
1. Enter the registered email.
2. A password reset link or code will be sent.
3. After resetting, return to the Sign In page.



A screenshot of the 'Reset password (OTP)' form. It includes fields for Email (placeholder 'hi@projects1@gmail.com'), Recovery code (placeholder 'Paste the code from your email'), New password (placeholder 'password'), and Confirm new password (placeholder 'password'). Below the form is a link 'Weak' and a 'Update password' button.

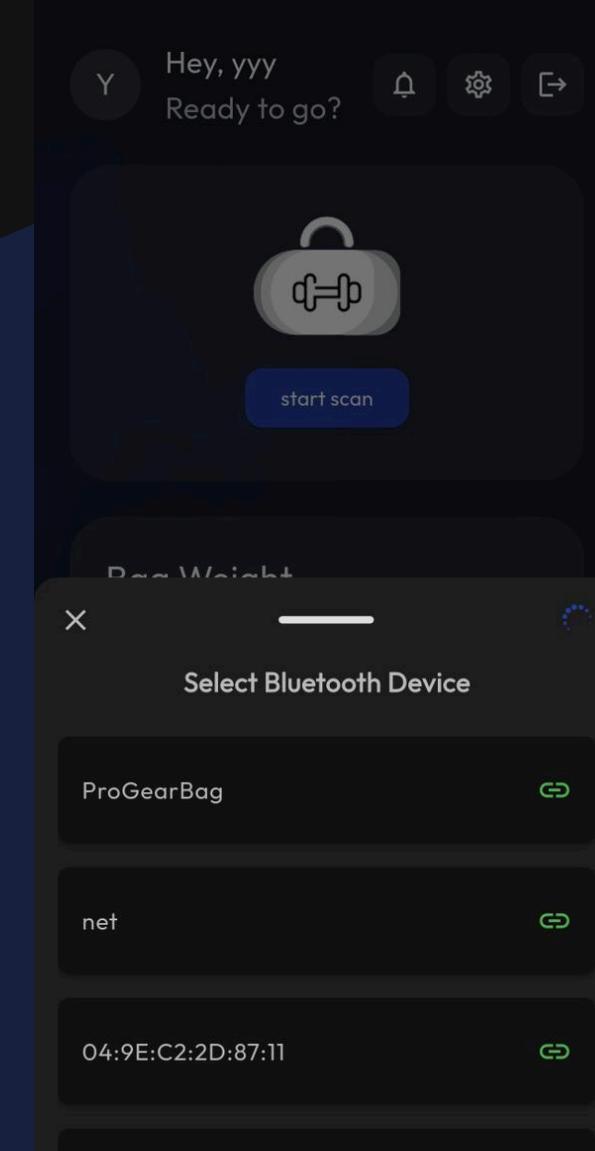
4. Main Dashboard

The Dashboard shows the smart bag's real-time status, including weight reading, expected weight, battery percentage, and Bluetooth connection state.



4.1 Connecting the Smart Bag via Bluetooth

1. Tap Start Scan.
2. Select ProGearBag from the available devices.
3. Once connected, the device name appear under the bag icon.

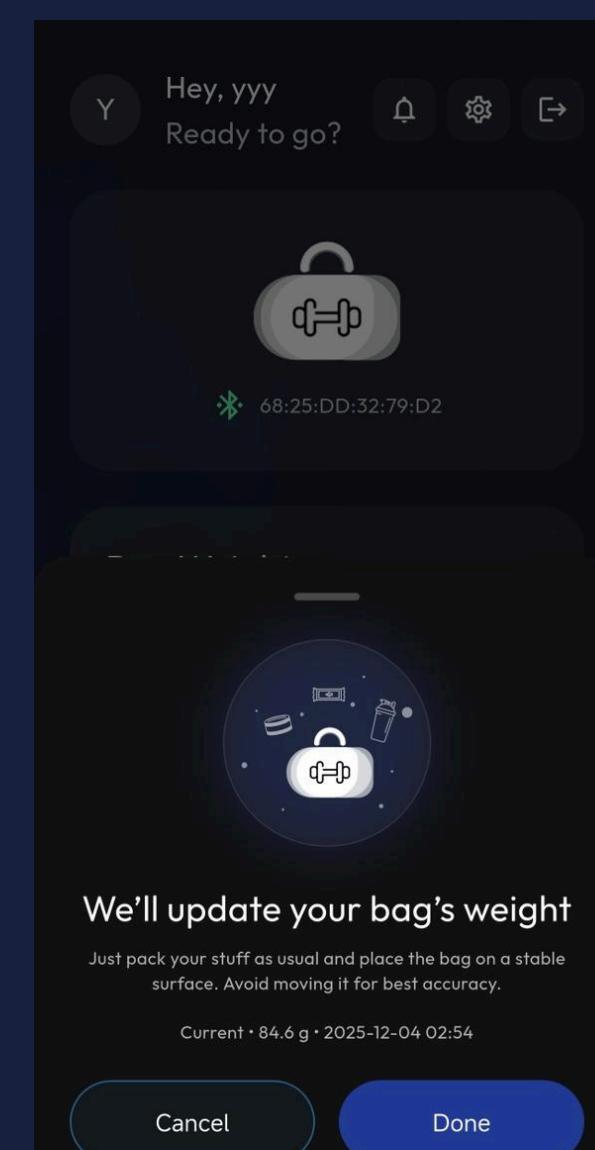


4.2 Updating the Expected Weight

This feature allows the user to set the reference weight used to detect missing items.

Steps:

1. Place all gear inside the bag.
2. Set the bag on a stable surface.
3. Tap Done to save the new expected weight.



4.3 Viewing Bag Weight

(Insert weight bar screenshot here)

The Dashboard displays:

- Current bag weight
- Expected baseline weight
- Difference between them



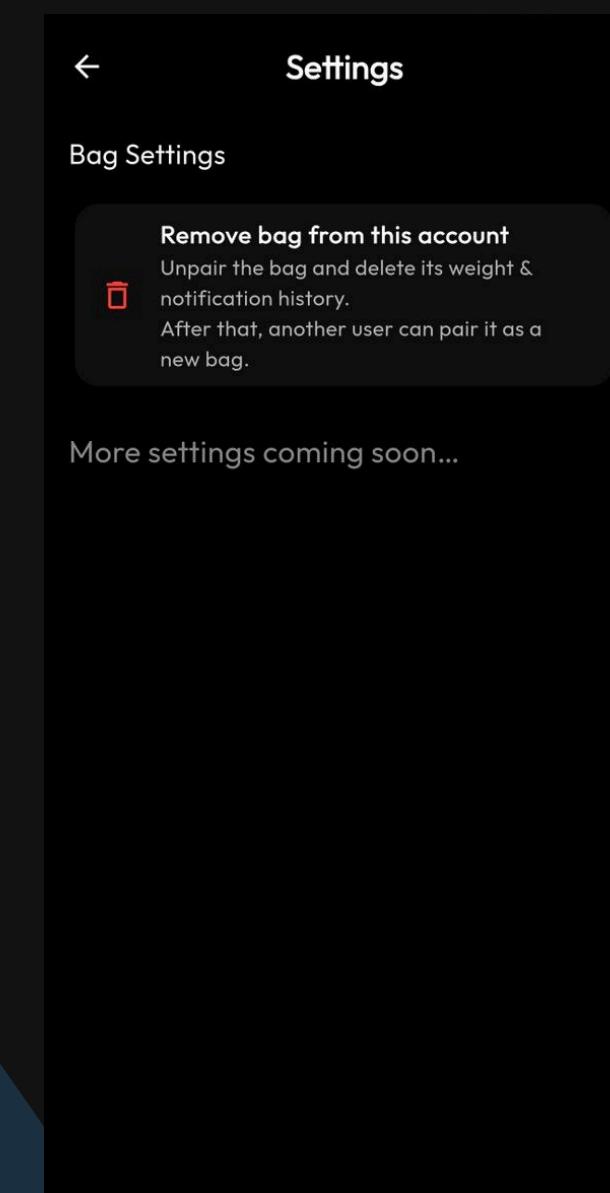
5. Bag Settings

5.1 Remove Bag from Account

This option allows removing the smart bag from the current user profile.

Steps:

1. Open Settings.
2. Select Remove bag from this account.
3. Confirm removal.
4. The bag becomes available for pairing with another user.



6. Notifications

The system may provide:

- Missing item alerts
- Low battery alerts
- Bluetooth disconnection alerts

7. Tips for Best Accuracy

- Place the bag on a stable, flat surface.
- Avoid moving the bag while updating expected weight.
- Ensure the bag's battery is sufficiently charged.
- Keep Bluetooth enabled and close to the bag for best performance.

8. Troubleshooting

Problem	Possible Cause	Solution
Device not appearing in Bluetooth list	Weak signal	Move closer to the bag
Incorrect weight reading	Bag is moving	Place on stable surface
Missing item alert shown incorrectly	Expected weight not updated	Reset expected weight
Cannot sign in	Wrong email/password	Use "Forgot Password"

9. Contact & Support

For technical support, questions, or feedback:

- support@progear-sa.com