Thank you for your interest in our **Full-Stack Developer Internship** position. To assess your development skills and problem-solving approach, we invite you to complete the following assignment:

Assignment Title: Round-Robin Coupon Distribution with Admin Panel

Objective:

Develop a **live web application** that distributes coupons to guest users in a round-robin manner while providing an **admin panel** to manage coupons and prevent abuse.

Requirements:

1. Coupon Distribution (User Side)

- Maintain a list of coupons in a database.
- Assign coupons sequentially to users without repetition.

2. Guest User Access

- Users can claim coupons without logging in.

3. Abuse Prevention

- **IP Tracking:** Prevent multiple claims from the same IP within a cooldown period.
- **Cookie-Based Tracking:** Restrict claims from the same browser session.

4. User Feedback

- Display messages for successful claims or time restrictions.

5. Admin Panel (Server-Side Management)

- **Login for Admin:** Secure access to admin functionality.
- **View Coupons:** Show a list of all available and claimed coupons.
- **Add/Update Coupons:** Admin can upload new coupons or modify existing ones.
- **User Claim History:** Show which users (IP/browser session) claimed coupons.
- **Toggle Coupon Availability:** Enable/disable certain coupons dynamically.

6. Live Deployment

- Host the application with a publicly accessible link.

7. Documentation

- Setup instructions and a brief explanation of the implementation.

Evaluation Criteria:

✅ **Functionality:** Coupon distribution with admin controls.
✅ **Security:** Robust abuse prevention.
✅ **User Experience:** Smooth user & admin UI.
✅ **Code Quality:** Maintainable and scalable.
✅ **Deployment:** Working live URL with credentials for testing.

Submission Guidelines:

- ◆ **Live URL** of the deployed application.
- ◆ **Admin Credentials** (if required) for testing.
- ◆ **GitHub Repo (Optional)** for code review.