# Resilient Email Sending Service

This JavaScript-based service simulates sending emails with robustness in mind.

## Features

• Retry mechanism with exponential backoff

• Fallback between two mock providers

• Circuit breaker to prevent overloading failed services

• Idempotency check to skip duplicates

• Rate limiting to control burst

• Logging and status tracking

• Unit tests for critical behavior

## How to Run

1. Install Node.js  
2. Run: node EmailService.js  
3. To test: node EmailService.test.js