Ticket Tailor Tech Test

Given a queue of pending webhooks (see webhooks.txt), implement a sending mechanism to send the webhooks to their destination. The sender should handle failures, and retry with an exponential back-off strategy.

We'd like you to spend no more than 3 hours building a solution, and you are free to solve in any language you are comfortable with.

Please do not use a framework or library for the queue processing.

Requirements

Exponential back-off strategy:
- On failure, retry sending the webhook using an exponential backoff strategy.
- The initial retry delay should start at 1 second and double with each subsequent retry (e.g. 1s, 2s, 4s, 8s, etc.)
- Cap the maximum retry delay at 1 minute, after which the webhook sending has failed and won't retry again.
- After 5 failures, it should stop attempting to send a webhook to the specified endpoint.

Readme:
- Provide a README file that explains how to set up and run the application.
- Include instructions for running tests if any.
- Describe any design decisions, security considerations, and trade-offs made during the implementation.

Deliverables:
- Submit the complete source code for the webhook sender as a zip or link to a repository