# App Invite Service

Overview

The exercise is to create a service that will facilitate the invite token generation and validation for the Catalyst Experience App. An invite token is a 6 to 12 digit alphanumeric string that app admins can share with potential customers.

The user workflow is the following:

1. The App Admin generates an invitation token using a web app as shown below:

    a.
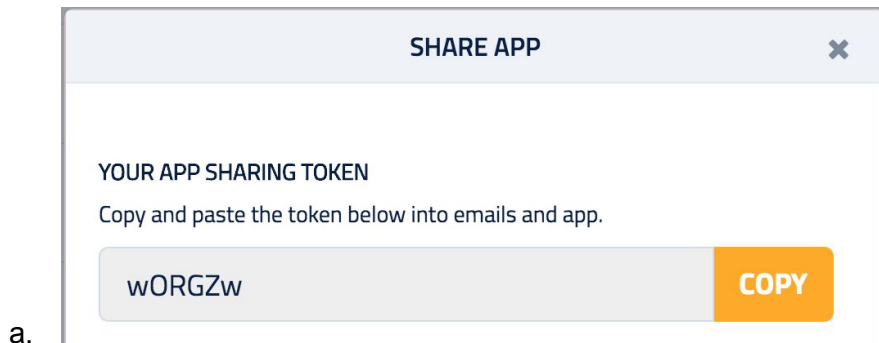
2. The invite token is then used to login into the Catalyst Experience App

    a.
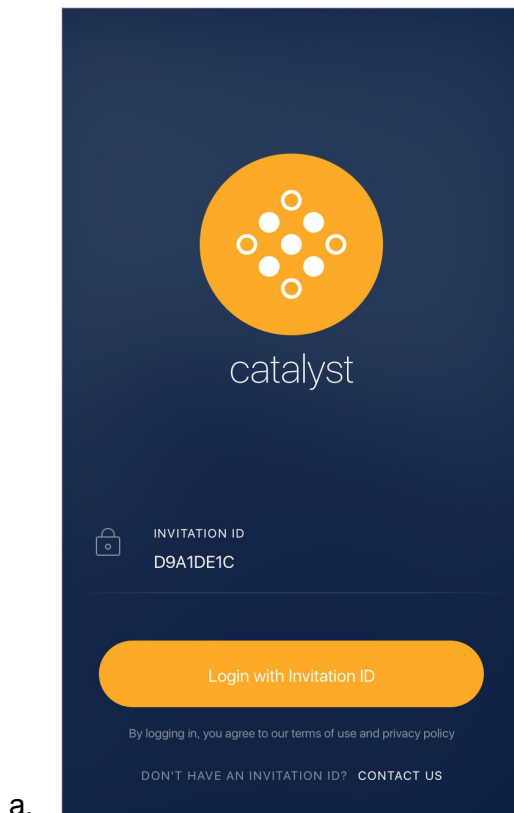
    b. The outcome of the action above can be either a successful login or the user is asked to retry.

Basic functional requirements:
- The APIs should be REST-full
- The admin endpoints should be authenticated. Propose an easy auth mechanism
- Invite tokens to expire after 7 days
- Invite tokens can be recalled (disabled)
- A public endpoint for validating the invite token

Nice to have functional requirements:
- The invite token validation logic needs to be throttled (limit the requests coming from a specific client)
- An admin can get an overview of active and inactive tokens

Basic nonfunctional requirements:
- Design and document the APIs that will facilitate the workflow outlined above
- Develop the API in GO Lang
- Use any framework or library that will help you develop the solution faster
- Make sure your code is well-formatted, clean, and follows best practices
- Separate concerns
- Write testable code
- Use in-memory storage for the tokens

Nice to have nonfunctional requirements:
- Document the APIs in Swagger or a similar tool
- Write functional code
- Tests, all levels of them
- Use an actual DB (MySQL is preferred)
- Provide deployment instructions