



Thank you for your interest in joining the tap family. We are excited by the prospect of you joining the team and helping us deliver value to our network of customers, merchants and partners.

For this technical assessment you are required to create a solution that solves the problem outlined below. The details of the implementation are up to you, the assessment is designed to get a sense of how you can solutionize and solve business problems as well as the technical ability.

### **Problem outline:**

You are tasked to create a small API project for creating and managing a merchant. You can design the api and collect and sample data as you need. The project should have the following features

- Endpoint - create, retrieve, update, and list (pagination).
- Create endpoint should have a background job sending a email with OTP.
- Endpoint to verify the OTP.
- Create endpoint should have webhook url where merchant status can be posted.
- All endpoints have track of request and response.
- Update endpoint should have history of updates made on field level.
- Merchant entity class should have a status track for fields IdentificationNumber & LicenseNumber ( Ex: pending, under\_review and verified).
- All the endpoints should be authenticated with static key and authentication should be done using AOP.
- Should be able to send merchant api response to webhook url provided in create merchant endpoint with background job.
- Job manager feature (optional)

The implementation details are up to you. Only restriction is to use JAVA spring boot and MongoDB.

You are required to push the solution on GitHub and share the repository to submit it. Along with documentation on how to setup and run the project. If you can deploy it on a testing link that would be great as well.

If you have any questions or concerns please feel free to reach out to Charan Dommara at [c.dommara@tap.company](mailto:c.dommara@tap.company)