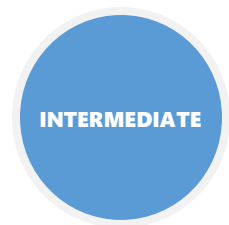




Version 2018.07.17



BACK END ENGINEER

Technical Test

OVERVIEW

Thank you for your interest in working for Upana Studio! In order for us to get to better understand your technical abilities and how can complement our team, we ask that you complete the following exercises.

We totally understand that you have a choice in employers and your time is valuable, so we designed the test to evaluate your abilities quicker as well as give you the opportunity to demonstrate and explore the skills you have already developed and honed. If you are new to the domains of these exercises we will however take that into account as well.

Please submit the exercises with TechTest_<Position>_<FullName>.zip: arhen@upanastudio.com

This technical test is confidential, do not share both the test and the result. If you have trouble submitting via email, use **private file sharing** such as Google Drive or Dropbox.

Good luck!

Engineering of Upana Studio

Overview

MX100 is job portal which connect company and expert freelancer/part-timer. It always keep track of freelancer performance, the more job freelancer completed the more benefit they gained. There are 2 ranks for freelancer with 2 different proposal space as monthly limit for submitting proposal. The ranks are: rank B with 20 pts and rank A with 40 pts, at the beginning of each month the proposal space is resetted.

Objective

As back end developer you must provide API to

- Enable freelance to submit proposal to jo post
- Enable company to view proposal for their job post

User Requirement

- Freelancer provide budget and completion date estimation on proposal they submit
- Freelancer can only submit one proposal to any published job
- Each application submitted by freelancer will reduce the proposal space by 2pts, so the rank B freelancer can only submit 10times max and rank A can submit 20times max
- Employer can view proposal from freelancer for their job post

Rule

- You must develop the API using nodejs/PHP/java
- You are free to choose SQL/noSQL library for database storage
- You must include database schema into your solution

Assessment Aspect

- Code cleanliness
- REST request routing
- User authentication
- Business logic separation
- Database structure
- Optional: point plus for writing unit/integration test