IT Team Recruitment Process

Backend Developer Assessment: 1 to 2 hours max.

The purpose of this assessment is to evaluate your knowledge in three of the most important skills of backend developers:

- Authentication and security
- Third party API integration
- Database connection and usage

You must implement a very simple Node.js API in a local development environment set up in your own machine. Users are going to create and account and add their close friends, meaning that each user will create these contacts with their name and their phone number. Database type is completely free of choice. The API should cover the following points.

1. Public endpoints for user sign-up and user login. The required inputs will be mobile number and password. The response of both APIs should have a JWT token or any other data for authentication. You can implement the Authentication approach you are must familiar with.
2. A post endpoint to add contacts by providing their name and mobile number. Before saving the contact in the database, you should make a call to Message Bird Lookup API[1] in order to validate that the number is valid and only save it if it is. This endpoint should be secured, meaning that only authenticated users will be able to save contacts.

   You are completely free to define error codes, API signatures and messages. Take into account that they should follow a logic flow and provide enough data to the interfaces that will be consuming the API.

   The deliverable for this assessment will a group screenshots that support and demonstrate the correct use of the API. You must test a successful and a failed case, both showing the request and response details. You can do this programmatically with any REST client library or with Postman Tool.

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[1] Please visit Message Bird API docs. You should take a look at the Authentication and Lookup API sections. You can also take a look at some tutorials Message Bird team has created and the Node.js SDK Docs. The Test API key is: NgZxPihtVSBuEVG7BXNP47dZw