

# zeply

Code Challenge  
for Full Stack JavaScript Developers

[zeply.com](http://zeply.com)

## Introduction

Hi, thank you for taking on our challenge! We hope that you'll learn a lot, create an awesome project and join the Zeply team!

In this test we will evaluate your technical skills, namely, code structure, code quality, naming conventions, knowledge of commonly used frameworks, and overall problem-solving skills.

Some decisions will be left up to you to make. You can choose any framework and third-party modules that you feel improve code clarity and development agility, as well as a database engine of your choice if need be. The task at hand is explained in the following sections. Whatever is unspecified will be up to you to determine.

## Specifications

In this challenge we want you to build a simple app, using either ReactJS or React Native, which retrieves address and transaction information from the BTC blockchain. It also allows a user to subscribe for changes to specific hashes. Each subscribed hash should generate a notification on the UI. Furthermore, the user should be able to select in which currency the values should be displayed (USD, EUR or BTC).

## What we'll pay attention to

*"The devil is in the detail".*

Implementation details, the handling of edge cases, and your coding style are three of the major things that we value. We'd also love to see automated tests as part of your solution. Please pay special attention to:

- Logic and code complexity - How easy will my code be for it to be maintained by someone else? Am I using good practices and proper design patterns?
- Test coverage - Is my code tested? Are all scenarios considered?
- Requirement coverage - Is the application doing what it is meant to be doing?

## Bonus points

Bonus points will be awarded for the implementation of a functionality that retrieves the top 5 searched addresses and transactions.

## Fields to display for each kind of hash

### Address search

- Number of confirmed transactions
- Total BTC received
- Total BTC spent
- Total BTC unspent
- Current address balance

### Transaction search

- Transaction hash
- Received time
- Status
- Size (in bytes)
- Number of confirmations (the successful act of hashing a transaction and adding it to the blockchain)
- Total BTC input
- Total BTOutput
- Total fees (paid to process this transaction)

## Deliverables and Deadline

The delivered project should include the solution's code, tests, and any documentation needed to set up, run, and manually test the project. It is preferred to have it delivered via a Git repository of your choice.

**Questions? Doubts? Issues?** [Don't get stuck, reach out to us!](#)

**Good luck!** 😊

**zeply**

Reach out to us

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[zeply.com](http://zeply.com)