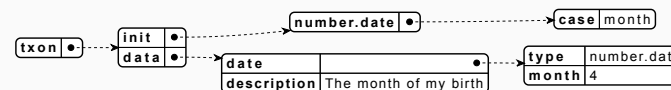


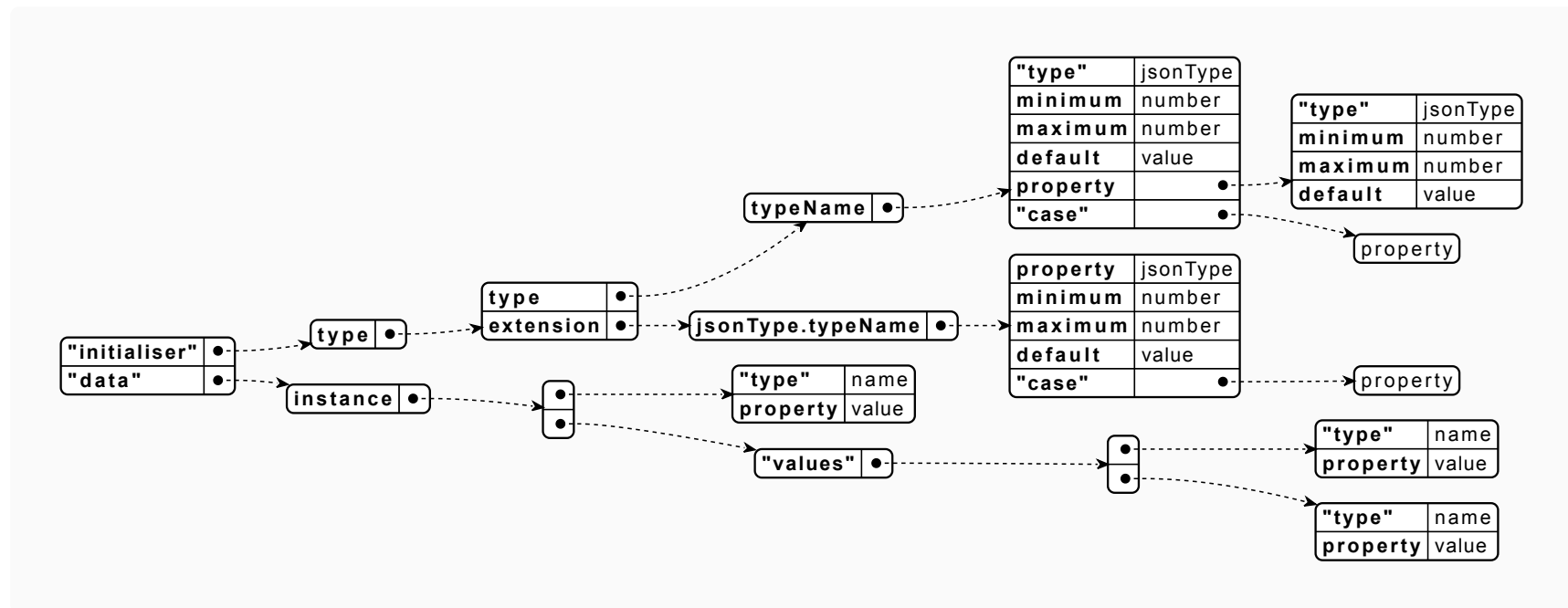
Type-Extensible Object Notation: JSON with Syntax for Types

Grammatical Notation

This project contributes to existing implementations of the JSON specification by proposing a grammar for explicit and extensible typing of values. This proposal is phrased as the **Type-Extensible Object Notation** (TXON) which is a format that conforms completely to the JSON specification, and as such it maintains full compatibility with existing JSON encoders and decoders. The TXON format is paired with the **TXON.js** library written in JavaScript, to validate the functional implementation and its use in a data structure, by checking conformance to its embedded type system.

A TXON data structure must contain an "init" and "data" property to be validated, but this is not expected to cause issue as JSON structures typically branch from a "data" property at the root node. As such the format is extensibly adding information on types, while maintaining as much of the original structure as possible.

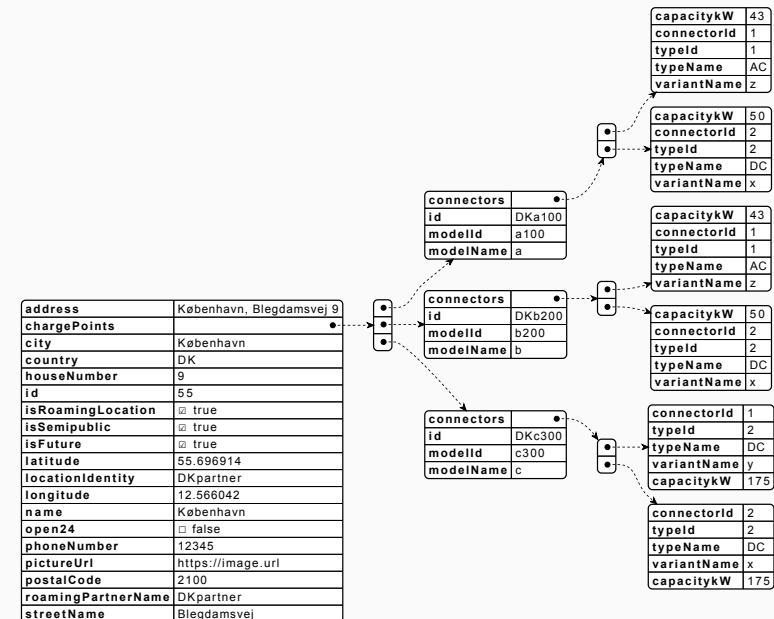




Data Structure

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Relational Types

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