

## Objectives



- Describe hypermedia
- · Simplify API discoverability using hypermedia
- Use hypermedia to enhance API responses
- Modify API definitions to generate state-specific client responses

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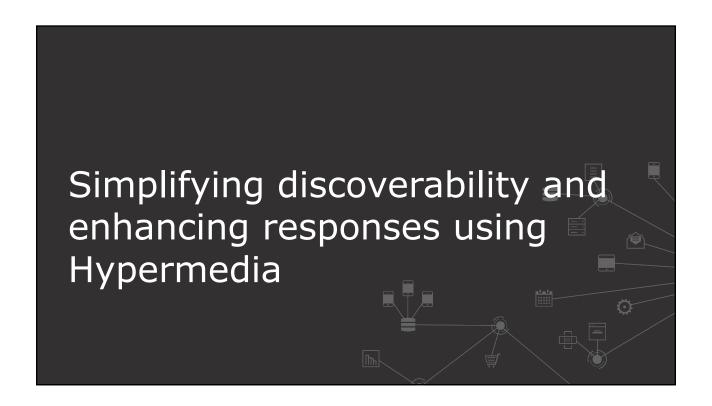
## Introducing hypermedia: Hypermedia as The Engine Of Application State (HATEOAS)

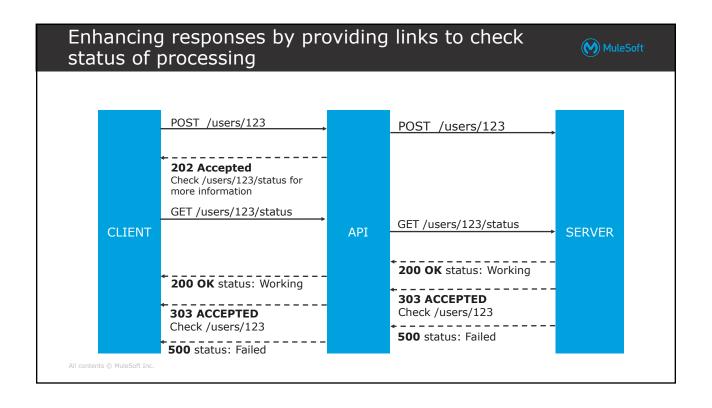
## Introducing hypermedia

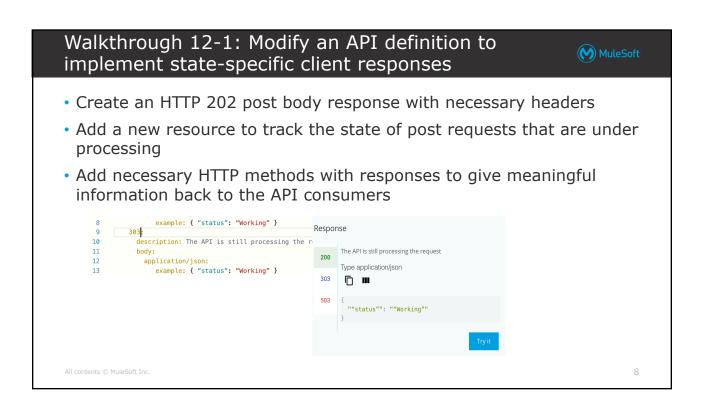


- Hypermedia helps giving information about an object's state
  - Core principle for RESTful APIs
  - Adding hyperlinks to data returned, providing means of linking a newly created object or linking the where the status of a posted information can be tracked helps API consumers understand the state of the data being returned
- Hypermedia was introduced to address the fact that not all objects might be in the same state at a given point of time
  - For every object(datatype) in an API, there are possible actions that can be applied to it
  - For example, in the ACME Banking example, not all bank customers have confirmed their personal information like email or address, some of them might be standard customers, others just a member of a joint account, some might be new customers who are still not registered in the system completely and so on

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## Summary



- Hypermedia was originally designed to increase discoverability
- Adding hyperlinks makes redirection to endpoints and resources easier
- To achieve asynchronous communication between client and server, it is critical to keep the client informed about the state of the information

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