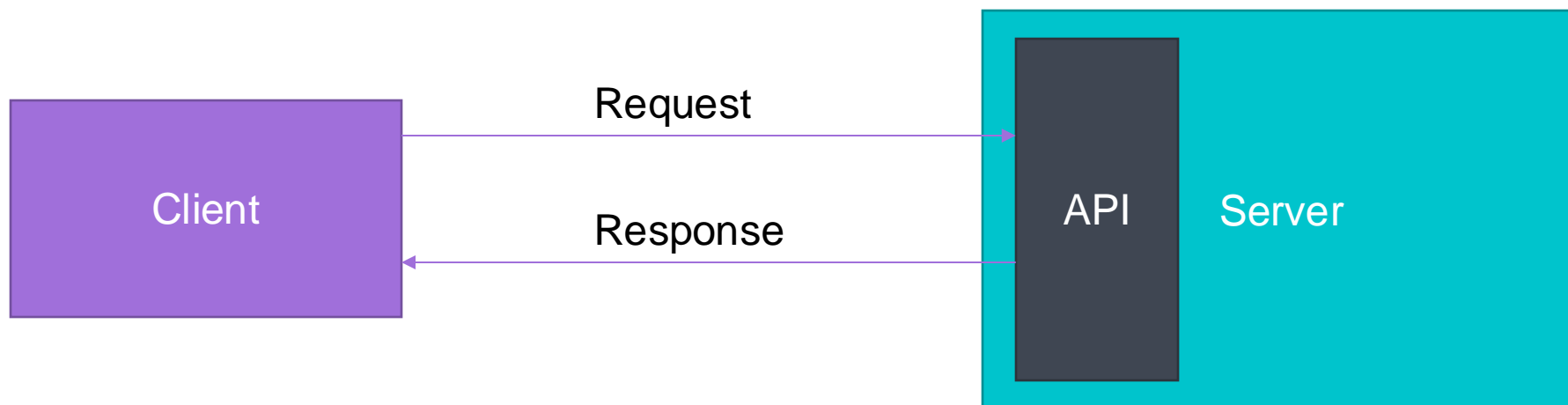


Overview of RESTful APIs

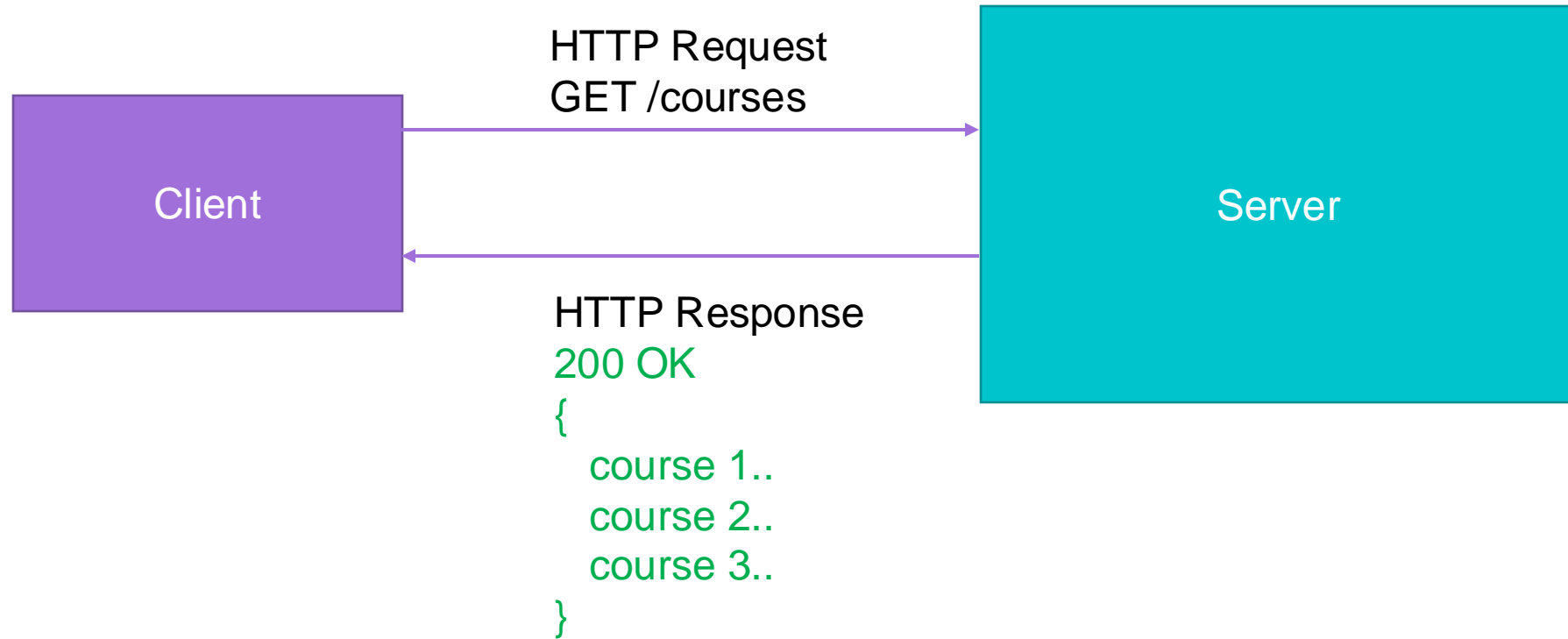
Introduction

How HTTP Works?

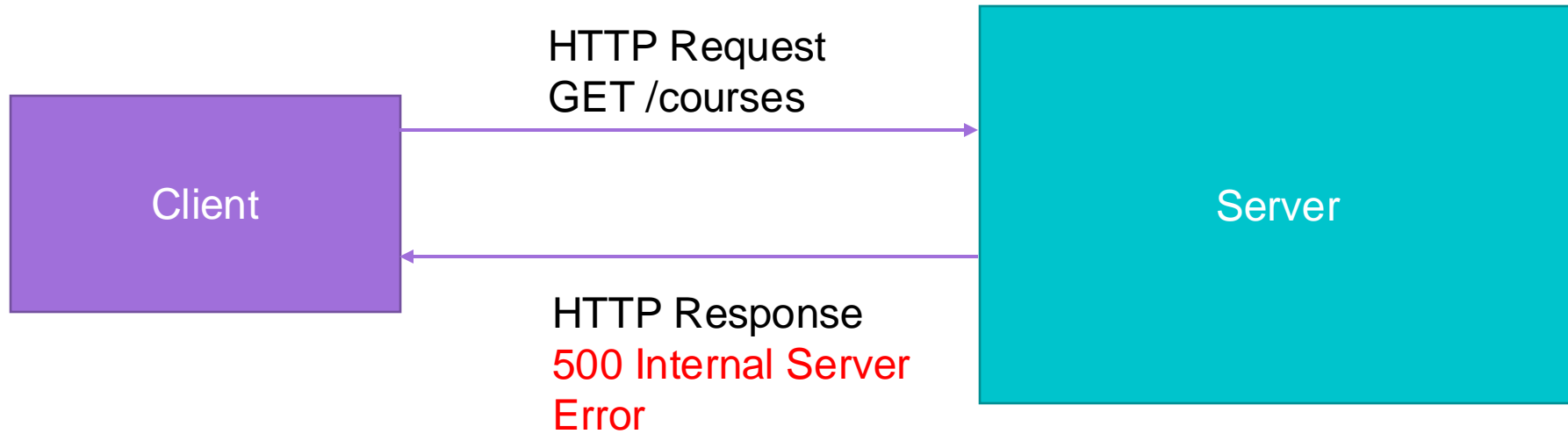
Typical HTTP Workflow



Successful HTTP Request



Failed HTTP Request



Parts of a HTTP Request

Parts of a HTTP Request



Request
Components

Response
Components

Request Components

Method

URL

Headers

Content

Request Components

Method

- GET
- POST
- PUT
- DELETE

URL

Headers

Content

Request Components

Method

- GET
- POST
- PUT
- DELETE

URL

- Uniquely identify resource

Headers

Content

Request Components

Method

- GET
- POST
- PUT
- DELETE

URL

- Uniquely identify resource

Headers

- Meta data of request

Content

Request Components

Method

- GET
- POST
- PUT
- DELETE

URL

- Uniquely identify resource

Headers

- Meta data of request

Content

- Query parameters
- Body

Response Components



A diagram showing the components of a response. It consists of three green rectangular boxes. Two boxes are positioned side-by-side at the top, labeled 'Status Code' and 'Headers'. A third box is centered below them, labeled 'Content'.

Status Code

Headers

Content

Response Components

Status Code

- Success 2xx
- Client-side error 4xx
- Server-side error 5xx

Headers

Content

Response Components

Status Code

- Success 2xx
- Client-side error 4xx
- Server-side error 5xx

Headers

- Meta data of response

Content

Response Components

Status Code

- Success 2xx
- Client-side error 4xx
- Server-side error 5xx

Headers

- Meta data of response

Content

- Response body

DEMO: Parts of a HTTP Request

What is REST?

REST = REpresentational **S**tate **T**ransfer

What is REST?

Approach to Design
Web Services

Designed around
Resources

Platform Independent

Uniform Interface

Stateless

DEMO: API in Postman

URL vs URI

Terms

URI – Uniform Resource Identifier

Identify a web resource by location, name, or both in internet.

URL – Uniform Resource Locator

Identify a resource by location.

Example: <https://mycollege.com/courses/home.htm>

Subset of URI.

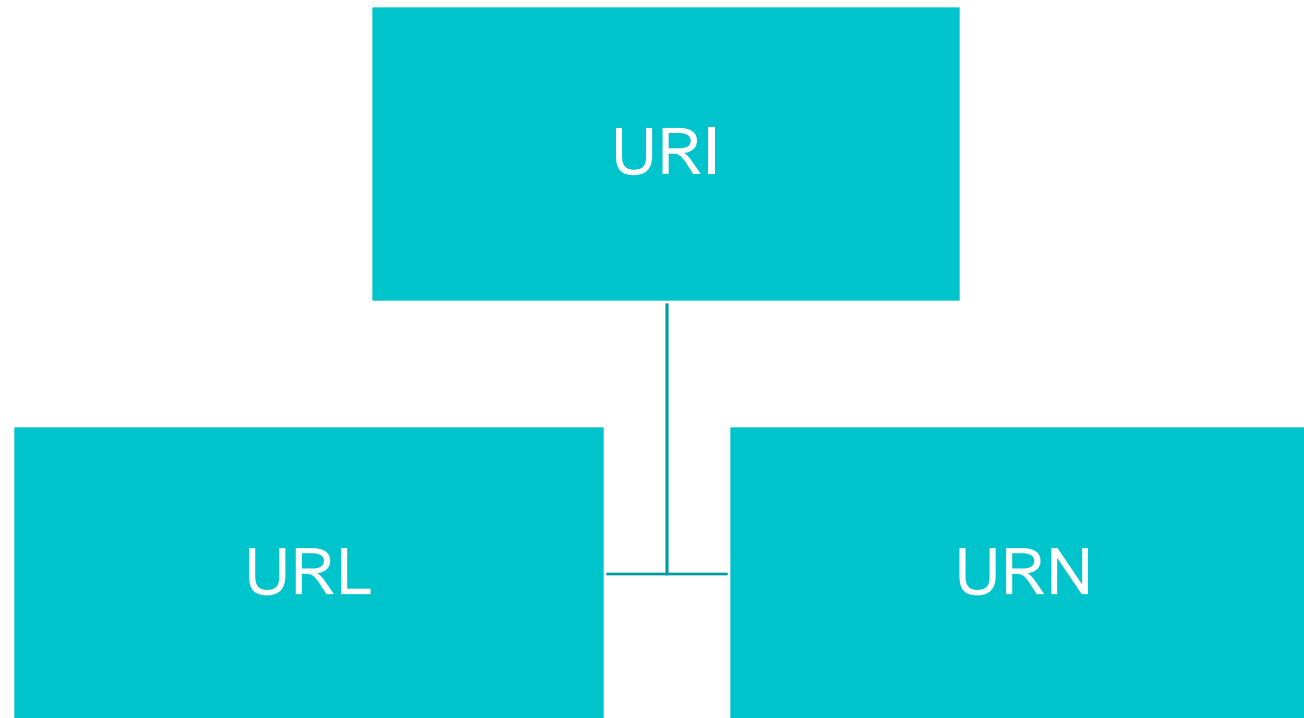
URN – Uniform Resource Name

Globally unique identifiers.

Example: urn:isbn:0751450246

Subset of URI.

Types of URI



URI and URL are used interchangeably

STEP 3: Identify the Server Base URL

Overview of RESTful APIs

Summary