

REST: URI / Identifier Designing Rules

Goals:

- API should be able to provide service to anything, anytime, anywhere.
- Authentication and Authorization
- Consistency
- Standardization and reusability

Generic URI sequence: `scheme:[//authority]path[?query][#fragment]`

- # - fragment, we don't need to worry

Reserved Characters: Colon (:), Forward Slash (/), Question Mark (?), Hashtag (#), Square Brackets ([]), At Sign (@)

Rules:

Rule 1: Use of “/” separator is to represent hierarchical relationship.

Rule 2: Trailing forward slash (/) shouldn't be used.

Rule 3: use – to increase readability and use Underscore as least as possible

Rule 4: Use Lowercase instead of Upper case.

Rule 5: Do not include file extensions in URI

Resource Archetypes: Document, Collection, Store and Controller.

Rules for Naming convention

Rule #	Resource Archetypes	Representation word	Example
6	Document	Singular Noun	user
7	Collection	Plural Noun or Phrase	users
8	Store	Plural Noun or Phrase	videos, images
9	Controller	verb or verb phrase	calculateage, send

Rule 10: Variable/Dynamic segments of URI should use identity-based values

Rule 11: Do not use CRUD method/function name in URI

Use of query:

1. To filter collection or stores
Ex: `http://www.jracademy.com/users?firstname=john`
2. Pagination Purpose:
Ex: `http://www.jracademy.com/users?startwith=11&pagesize=10`
3. To add extra functionality