

RESTful JSON Specification

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CMD	Resource	Input Example	Output Example	API Functions
PUT	/reset/		{'result': 'success'}	reset_all
GET	/classification/		{'result': 'success', 'families': ['acanthuridae', 'accipitridae', 'agamidae', ...]}	get_families
GET	/classification/[family]	?family=acanthuridae	{'result': 'success', 'classification': {'order': 'perciformes', 'class': 'actinopterygii', 'phylum': 'chordata', 'kingdom': 'animalia', 'desc': {'surgeonfish', 'tang', 'unicornfish'}}}	get_classification
POST	/classification	{'family': 'acanthuridae', 'info': {'order': 'perciformes', 'class': 'actinopterygii', 'phylum': 'chordata', 'kingdom': 'animalia', 'desc': {'surgeonfish', 'tang', 'unicornfish'}}}	{'result': 'success'}	post_classification
GET	/exhibit/[zoo]	?zoo=Grizzly and Wolf Discovery Center	{'result': 'success', 'species': ['aegolius acadicus', 'buteo jamaicensis', 'buteo lagopus', 'canis lupus', 'canis lupus familiaris', 'cathartes aura', 'falco peregrinus', 'falco sparverius', 'haliaeetus leucocephalus', 'ursus arctos horribilis']}	get_exhibits
POST	/exhibit/[zoo]	{'species': ['acanthurus olivaceus', 'acanthurus pyroferus']}	{'result': 'success'}	post_exhibits
DELETE	/exhibit/	?'zoo'='zoo name'&'species'='ursus arctos horribilis'	{'result': 'success'}	delete_exhibit

GET	/habitat/		{'result': 'success', 'habitats': ['benthic', 'bog', 'brackish water'...]}	get_habitats
GET	/habitat/[habitat]	?habitat=benthic	{'result': 'success', 'desc': 'near the seabed at the bottom of a body of water'}	get_habitat
POST	/habitat/	{'habitat': habitat, 'desc': description}	{'result': 'success'}	post_habitat
GET	/region/		{'result': 'success', 'regions': ['nearctic', 'neotropical', 'palearctic'...]}	get_regions
GET	/region/[region]	?region=nearctic	{'result': 'success', 'desc': 'north america'}	get_region
POST	/region/	{'region': region, 'desc': description}	{'result': 'success'}	post_region
GET	/state/		{'result': 'success', 'states': [Alabama, Arizona, ...]}	get_states
GET	/state/[abbrev]	?abbrev='AZ'	{'result': 'success', 'state': 'Arizona'}	get_state
GET	/status/		{'result': 'success', 'statuses': ['DD', 'NE', 'LC', 'NT', 'VU', 'EN', 'CR', 'EW']}	get_statuses
GET	/status/[status]	?status=DD	{'result': 'success', 'description': 'data deficient'}	get_status
GET	/zoo/		{'result': 'success', 'zoos': ['Abilene Zoo', 'Audubon Zoo', 'Baton Rouge Zoo', ...]}	get_zoos
POST	/zoo/	{'zoo': 'Fake Zoo', 'info': {'city': 'Anaheim',	{'result': 'success'}	post_zoo

		{ 'state': 'Ca', 'address': '1234 Zoo Lane', 'number of animals': 1700, 'acres': 38, 'opening time': '8:00', 'closing time': '17:00', 'annual visitors': 185000, 'website URL': http://fakezoo.org/ }		
GET	/zoo/[zoo]	?zoo='Abilene Zoo'	{ 'result': 'success', 'zoo': { 'city': 'Abilene', 'state': 'TX', 'address': '2070 Zoo Lane', 'number of animals': 1100, 'acres': 13, 'opening time': '9:00', 'closing time': '17:00', 'annual visitors': 175000, 'website URL': http://abilenezoo.org/ } }	get_zoo
PUT	/zoo/[zoo]	{ 'annual visitors': 15000 }	{ 'result': 'success' }	put_zoo
GET	/species/		{ 'result': 'success', 'species': ['acanthurus olivaceus', 'acanthurus pyroferus', 'aceros corrugatus', ...] }	get_all_species
GET	/species/[species]	?species='ara glaucogularis'	{ 'result': 'success', 'ara glaucogularis': { 'common Name': ['Blue-Throated Macaw', 'Caninde Macaw', 'Wagler's Macaw'], 'genus': 'ara', 'family': 'psittacidae', 'region': ['neotropical'], 'habitat': ['savanna/grassland', 'forest'], 'status': 'CR' } }	get_species
PUT	/species/[species]	?species='ara glaucogularis' { 'status': 'EW', 'habitat': ['rainforest'], ... }	{ 'result': 'success' }	put_species
POST	/species/	{ 'species': 'canis dirus', 'info': { 'common name': [], 'genus': 'canis', 'family': 'canidae' } }	{ 'result': 'success' }	post_species