## TECNOLÓGICO NACIONAL DE MÉXICO INSTITUTO TECNOLÓGICO DE ENSENADA

Programa de Ingeniería en Sistemas Computacionales

## REPORTE

## Conectar con API

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Programación de dispositivos moviles Android (enero-junio 2022)

Ensenada B.C. México 13 de mayo de 2022

No Control: 16760300

## 1. PRUEBAS

Figura 1: Clase NeoWsServices

```
Restarted application in 907ms.

I/flutter (20331): "links":("next":"http://www.neowsapp.com/rest/v1/feed?start_date=2015-09-08&end_date=2015-09-09&detailed=false&api_key=DEMO_KEY", "prove": "http://www.neowsapp.com/rest/v1/feed?start_date=2015-09-06&end_date=2015-09-08&end_date=2015-09-08&etailed=false&api_key=DEMO_KEY", "sel f":"http://www.neowsapp.com/rest/v1/feed?start_date=2015-09-06&end_date=2015-09-08&detailed=false&api_key=DEMO_KEY"), "element_count":25," ear_ear_earth_objects":("2015-09-088":[("links":("elf":"http://www.neowsapp.com/rest/v1/neo/2465633?api_key=DEMO_KEY"), "id=""2465633", "element_count":25," neo_reference_id=""2465633", "name=""465633", "absolute_mapintude_m":20.3
6, "estimated_diameter_":("kilometers":("estimated_diameter_min":0.225193467, "estimated_diameter_max":0.5035409604), "meters":("estimated_diameter_min":0.303696064), "met
```

Figura 2: getFeed

```
Restarted application in 873ms.

I/flutter (20301): "links":("self":"http://www.neowsapp.com/rest/v1/neo/3542519?api_key=DEMO_KEY"),"id":"3542519","neo_reference_id":"354
2519","name": ("2018 PK9)","designation":"2010 PK0","nasa_jpl_url":"http://ssd.jpl.nasa_gov/sbdb.cgi?sstr=3542519","absolute_magnitude_h":2
1.8, "estimated_diameter":("kilometers":("estimated_diameter_min":0.1160250082,"astimated_diameter_max":0.2594418179),"meters":("estimated_diameter_min":0.1160250082,"astimated_diameter_min":0.7299418179);"meters":("estimated_diameter_min":0.7299418179);"meters":("estimated_diameter_min":0.7299418179);"meters":("estimated_diameter_min":0.7299418179);"meters":("estimated_diameter_min":0.729951346,"estimated_diameter_min":0.729951346,"estimated_diameter_min":0.729951346,"estimated_diameter_min":0.729951346,"estimated_diameter_min":0.729951346,"estimated_diameter_min":0.729951346,"estimated_diameter_min":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.729951346,"estimated_diameter_max":0.7299961346,"estimated_diameter_max":0.7299961346,"estimated_diameter_max":0.7299961346,"estimated_diameter_max":0.7299961346,
```

Figura 3: getLookUp

```
Restarted application in 91ems.

I/flutter (20391): "links":{"next":"http://www.neowsapp.com/rest/v1/neo/browse?page=1&size=20&api_key=DEMO_KEY", "self":"http://www.neowsapp.com/rest/v1/neo/browse?page=1&size=20&api_key=DEMO_KEY", "self":"http://www.neowsapp.com/rest/v1/neo/2006433;" cotal_elements":20363, "total_pages":1469, "number":0), "near_earth_objects":{"links":("self":"http://www.neowsapp.com/rest/v1/neo/20064332pi_key=DEMO_KEY"), "id :"20064333", "neo_reference_id :"20064331", "naome:"d self :"cotal_elements":20064331", "naome:"d self :"cotal_elements":20064331, "naome:"d self :"cotal_elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements.elements
```

Figura 4: getBrowse

Nota: La información es tan grande que la consola la muestra recortada, aquí un ejemplo de getLookup en Postman

```
https://api.nasa.gov/neo/rest/v1/neo/3542519?api_key=DEMO_KEY
 GET
                               Headers (6)
                                                         Pre-request Script
Body Cookies Headers (18) Test Results
  Pretty
              Raw
                       Preview
                                    Visualize
                                                  JSON
 4822
                         orbiting_body": "Earth"
 4823
 4824
 4825
 4826
                orbital_data": {
 4827
                   "orbit_id": "25",
 4828
                    "orbit_determination_date": "2021-04-15 04:05:04",
                   "first_observation_date": "2010-08-02",
"last_observation_date": "2019-08-04",
 4829
 4830
                    "data_arc_in_days": 3289,
 4831
                    "observations_used": 102,
 4832
                    "orbit_uncertainty": "0",
 4834
                   "minimum_orbit_intersection": ".0163799",
 4835
                   "jupiter_tisserand_invariant": "8.149"
                   "epoch_osculation": "2459600.5",
"eccentricity": ".6758816295966181",
 4836
 4837
                    "semi_major_axis": ".6821117765074953",
 4838
                   "inclination": "12.59278240977363",
 4839
 4840
                    "ascending_node_longitude": "306.5359724024219",
 4841
                   "orbital_period": "205.7698534440069",
                   "perihelion_distance": ".2210849574345652",
"perihelion_argument": "195.6313961587518",
"aphelion_distance": "1.143138595588425",
"perihelion_time": "2459654.948176334939",
 4842
 4843
 4844
 4845
 4846
                    'mean_anomaly": "264.7414227472738",
 4847
                    "mean_motion": "1.74952741606516",
 4848
                    "equinox": "J2000",
 4849
                    "orbit_class": {
                        "orbit_class_type": "ATE",
"orbit_class_description": "Near-Earth asteroid orbits similar to that of 2062 Aten",
 4850
 4851
 4852
                         "orbit_class_range": "a (semi-major axis) < 1.0 AU; q (perihelion) > 0.983 AU"
 4853
 4854
 4855
               "is_sentry_object": false
 4856
```

Figura 5