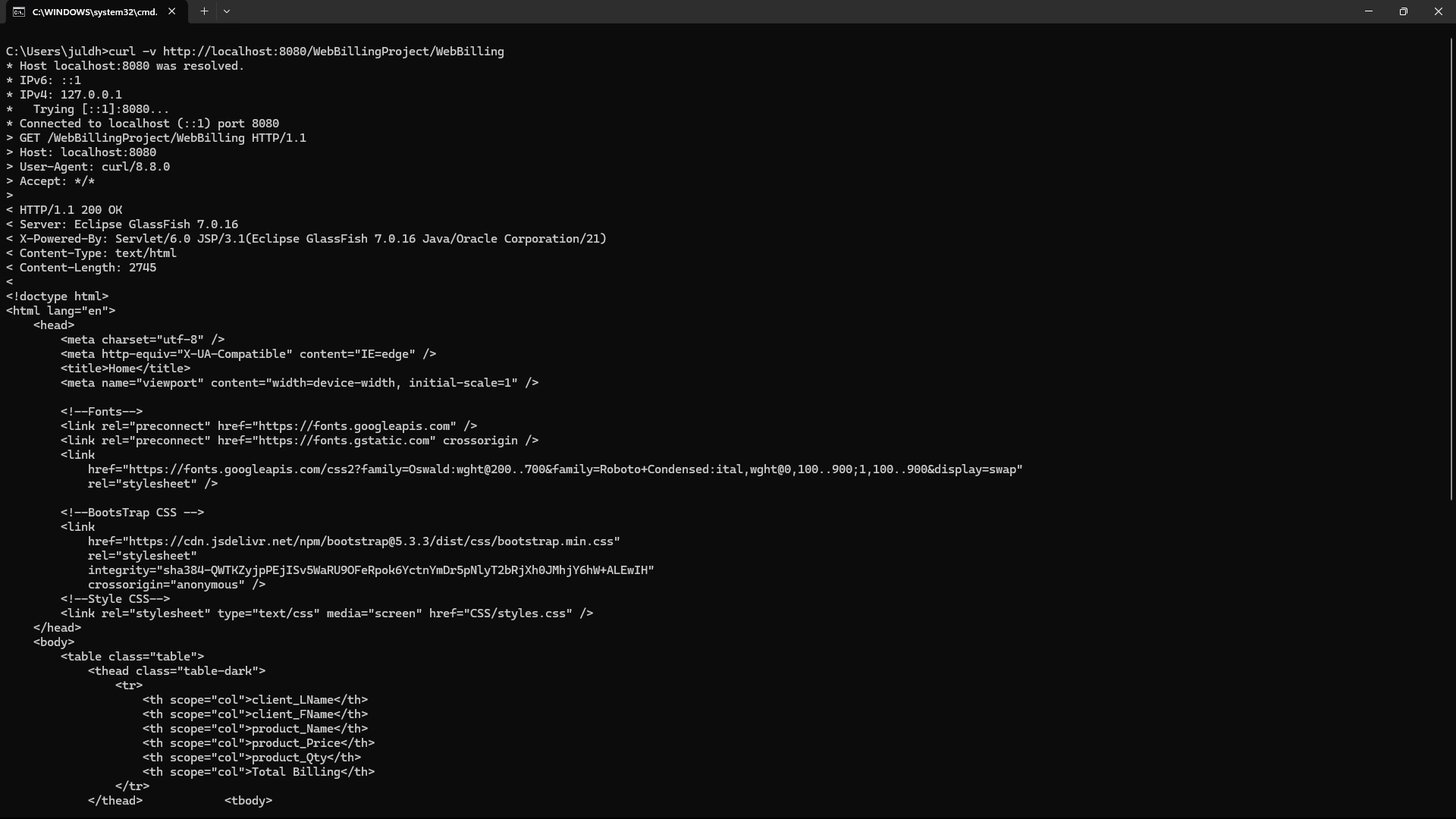
**Using CURL Tool**

*CURL WebHelloWorldProject of Lab 1*

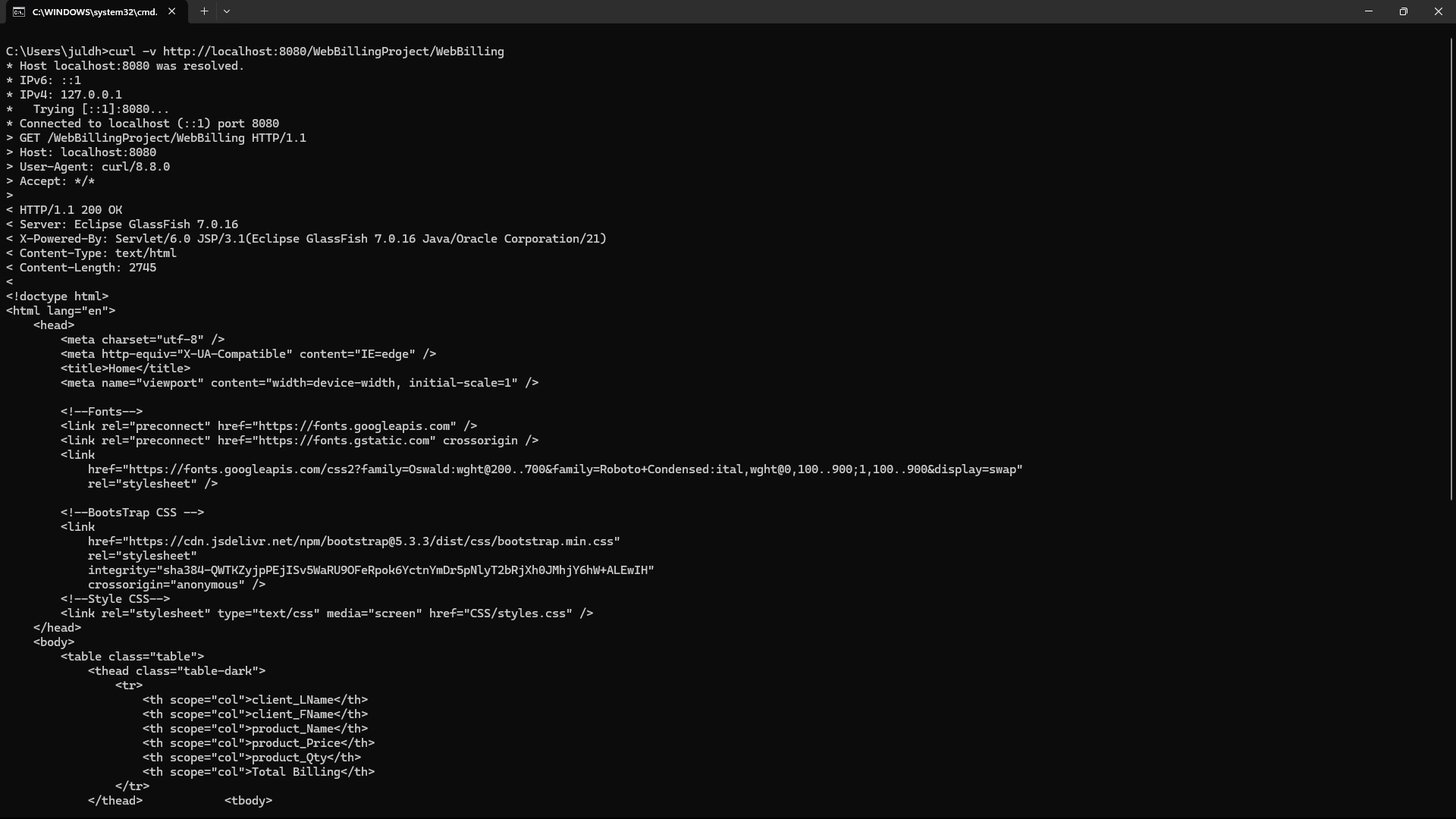
*A screenshot of a computer

Description automatically generated*

*CURL WebProcessBillingProject of Lab 1*

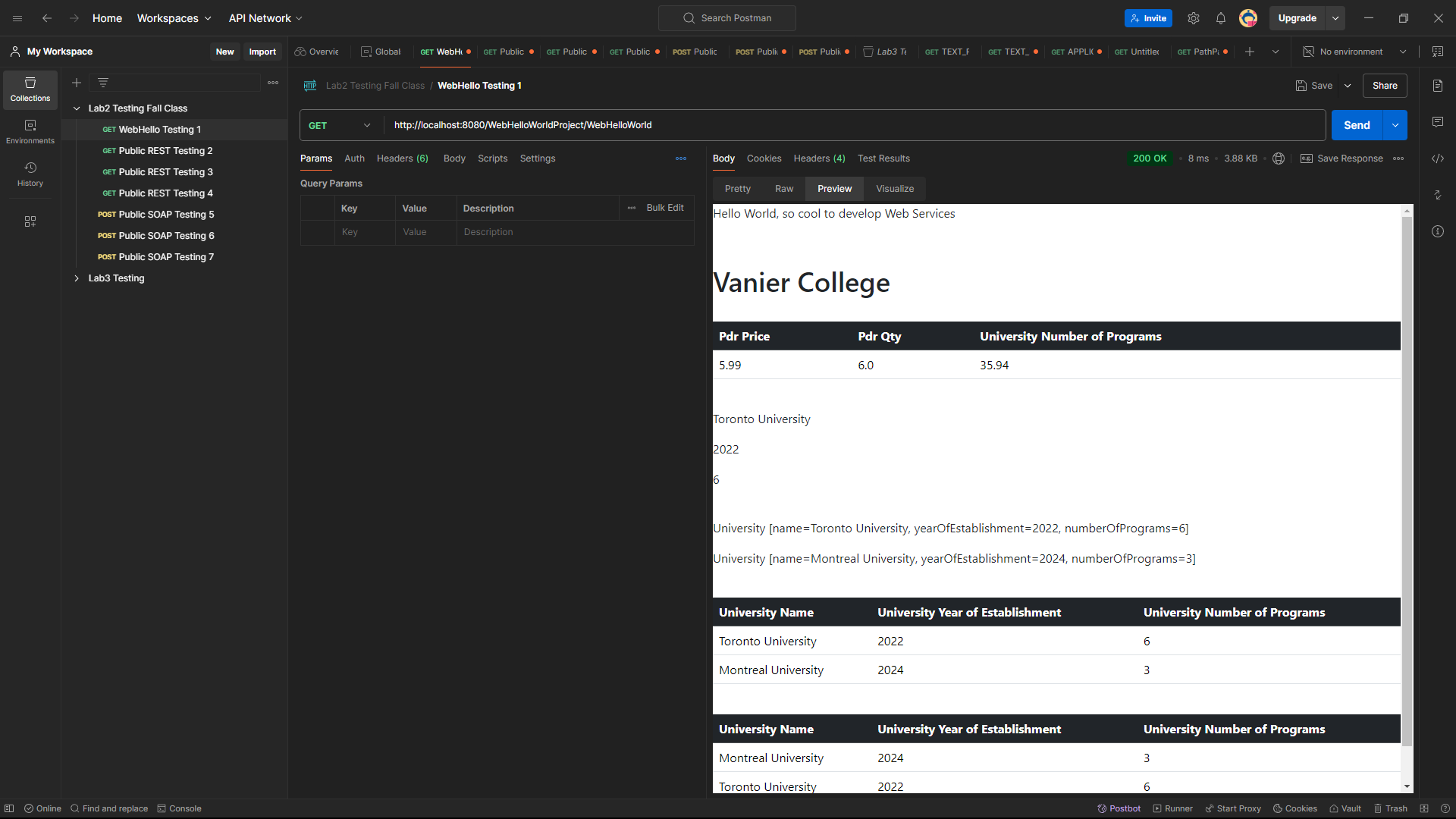


*CURL WebCourseProject of Lab 1*



**Using Postman Tool**

*Postman WebHelloWorldProject of Lab 1*



*Postman WebProcessBillingProject of Lab 1*

A screenshot of a computer

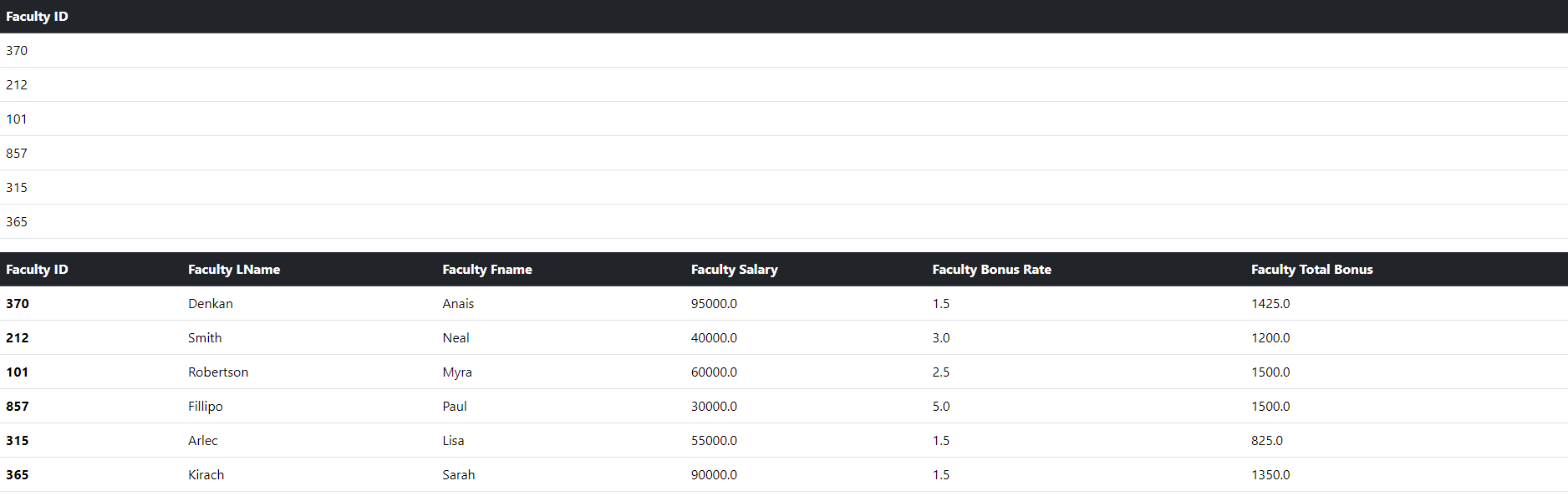
Description automatically generated

*Postman WebCourseProject of Lab 1*

A screenshot of a computer

Description automatically generated

*Browser Testing*

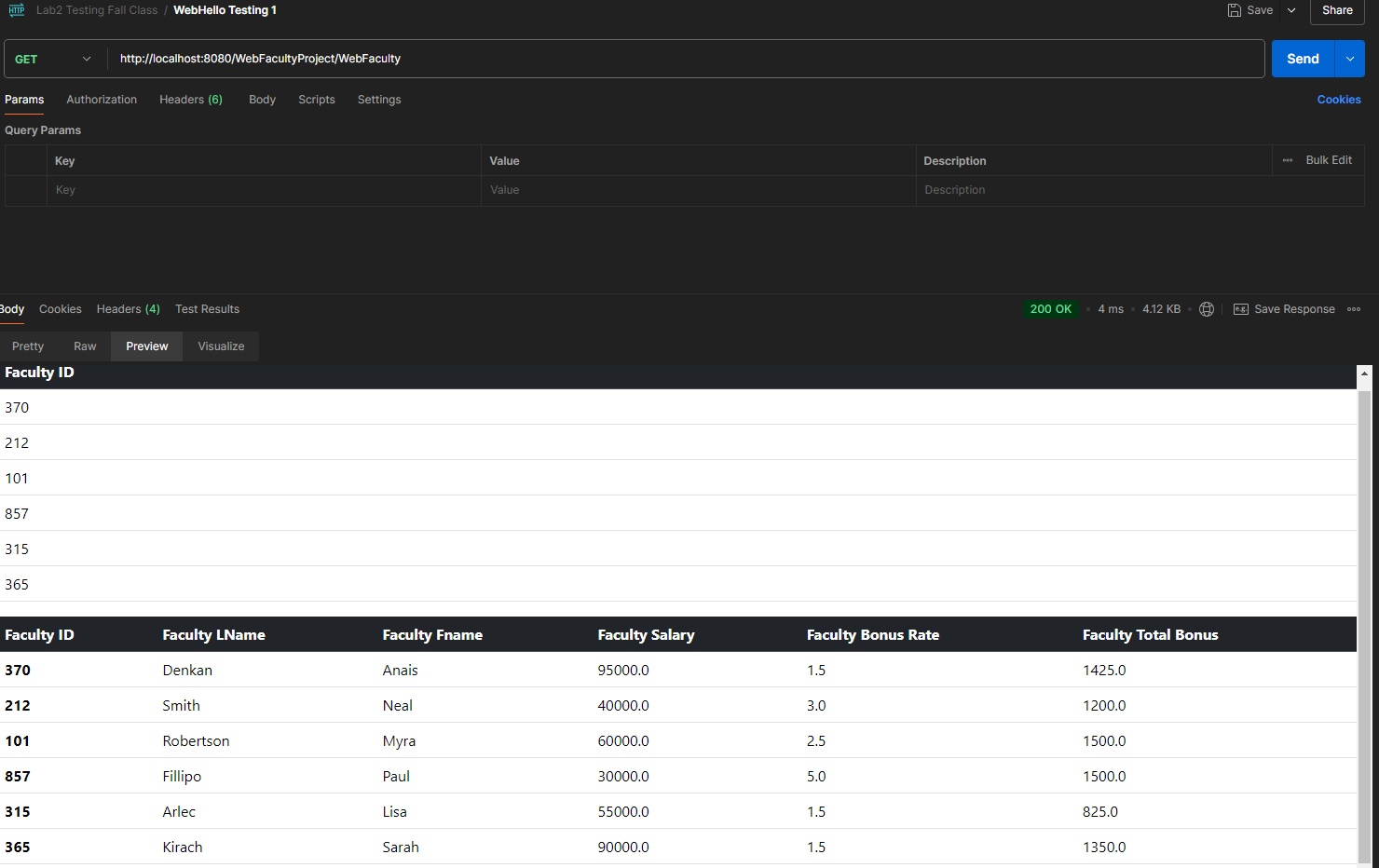


*Curl Testing*

A screenshot of a computer

Description automatically generated

*Postman Testing 1*



**Consuming Public REST Resources**

*Postman Testing 2 (REST)*

A screenshot of a computer

Description automatically generated

*Postman Testing 3 (REST)*

A screenshot of a computer

Description automatically generated

*Postman Testing 4 (REST)*

A screenshot of a computer

Description automatically generated

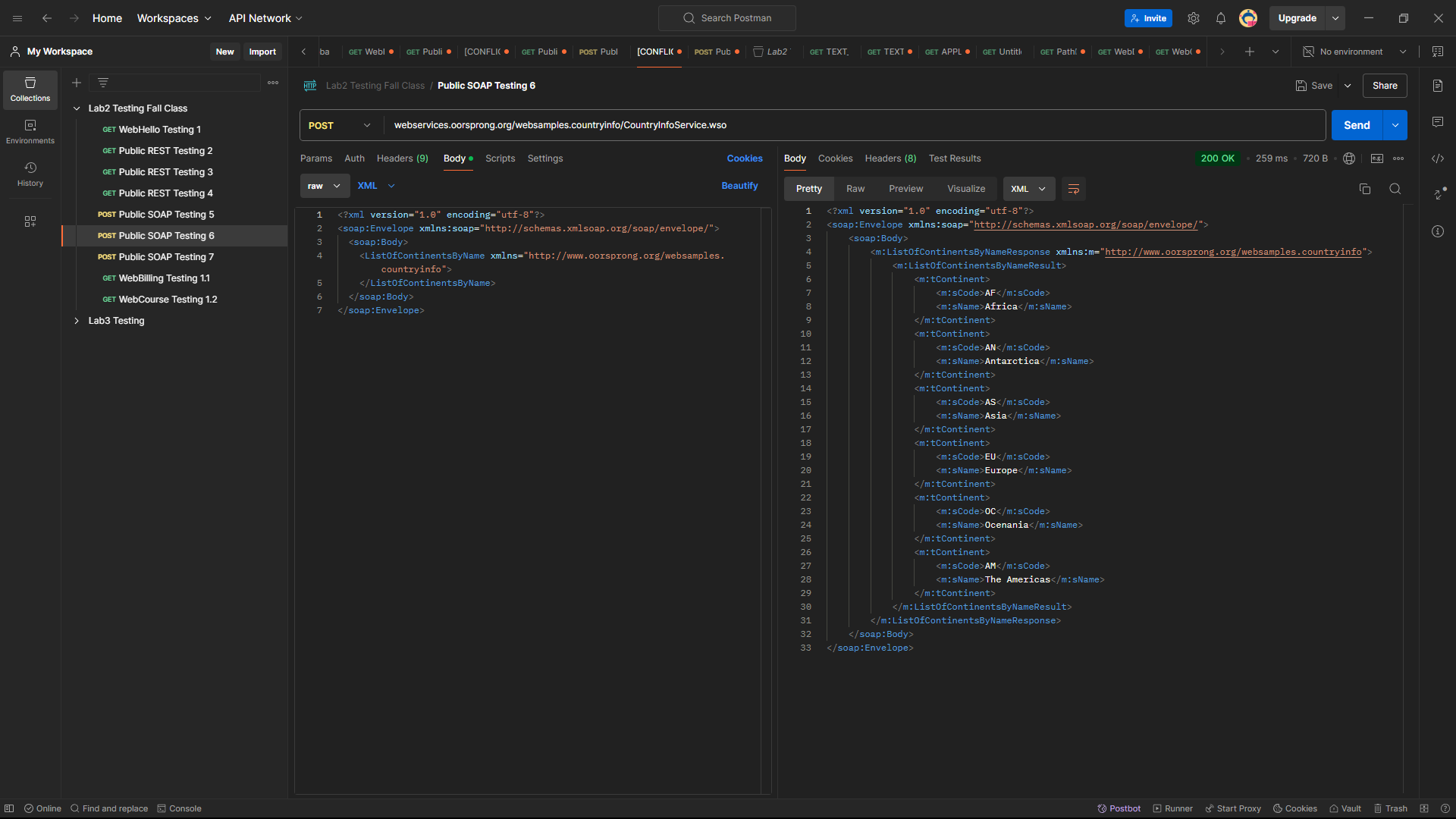
**Consuming Public SOAP Services**

*Postman Testing 5 (SOAP)*

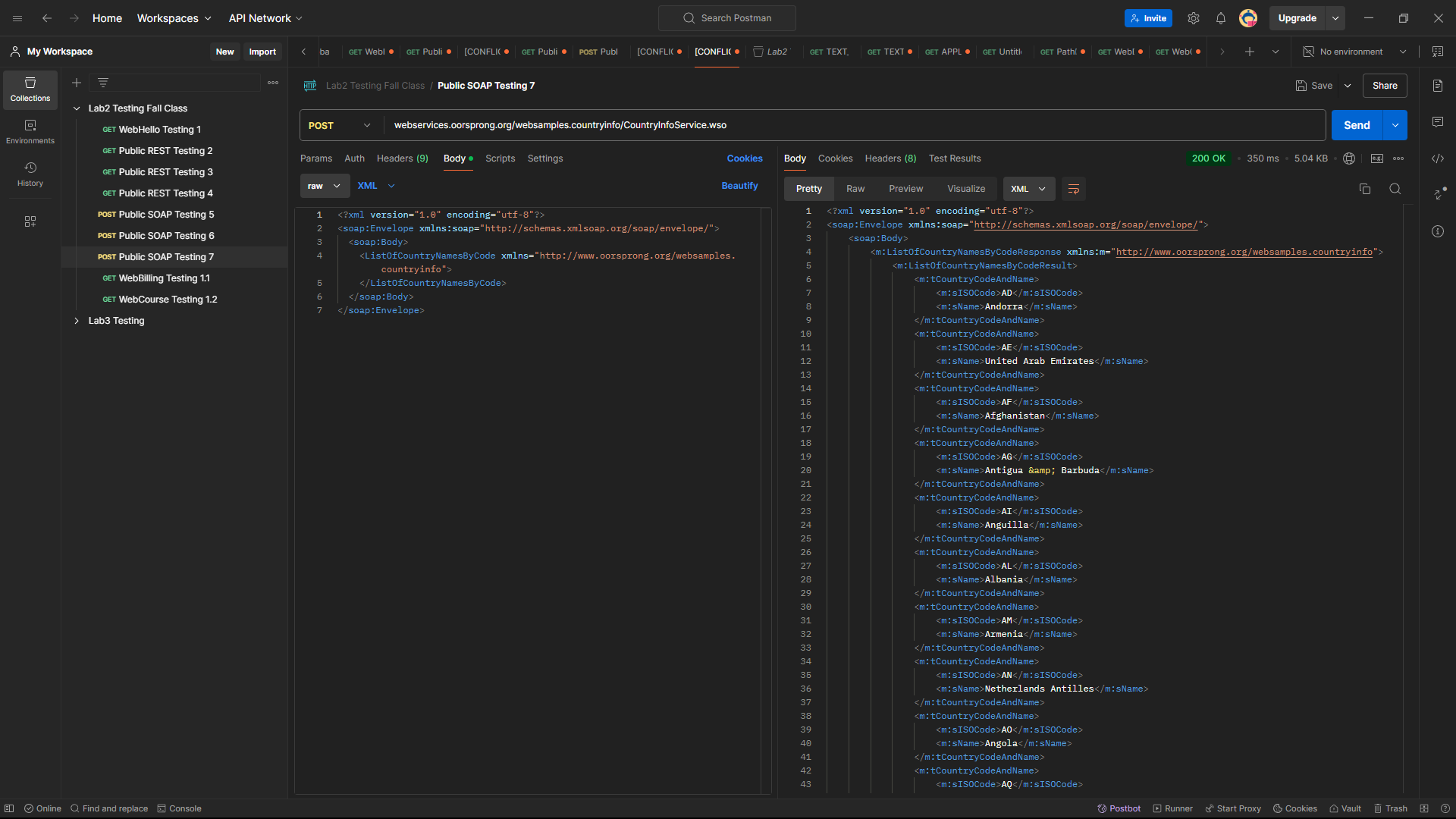
A screenshot of a computer

Description automatically generated

*Postman Testing 6 (SOAP)*



*Postman Testing 7 (SOAP)*



**SEARCH for Public REST Resources**

*Rest API Deezer to search music (Song: Overcompensate, Twenty One Pilots)*

|  |  |
| --- | --- |
| HTTP link request | <https://api.deezer.com//search/?q=overcompensate> |
| Request Method | GET |
| Request Parameters Key | q |
| Request Parameters Value | overcompensate |
| HTTP Response | 200 OK |
| Data Format of Response | {      "data": [          {              "id": 2814515022,              "readable": true,              "title": "Overcompensate",              "title\_short": "Overcompensate",              "title\_version": "",              "link": "https://www.deezer.com/track/2814515022",              "duration": 236,              "rank": 687658,              "explicit\_lyrics": false,              "explicit\_content\_lyrics": 0,              "explicit\_content\_cover": 2,              "preview": "https://cdn-preview-d.dzcdn.net/stream/c-dfe4ccbdd35a4933acb1ffe90709621b-1.mp3",              "md5\_image": "4f2819429ed92d35a649d609e39b29b5",              "artist": {                  "id": 647650,                  "name": "Twenty One Pilots",                  "link": "https://www.deezer.com/artist/647650",                  "picture": "https://api.deezer.com/artist/647650/image",                  "picture\_small": "https://e-cdns-images.dzcdn.net/images/artist/3afef5e2e201c409c50b9a81cc27171b/56x56-000000-80-0-0.jpg",                  "picture\_medium": "https://e-cdns-images.dzcdn.net/images/artist/3afef5e2e201c409c50b9a81cc27171b/250x250-000000-80-0-0.jpg",                  "picture\_big": "https://e-cdns-images.dzcdn.net/images/artist/3afef5e2e201c409c50b9a81cc27171b/500x500-000000-80-0-0.jpg",                  "picture\_xl": "https://e-cdns-images.dzcdn.net/images/artist/3afef5e2e201c409c50b9a81cc27171b/1000x1000-000000-80-0-0.jpg",                  "tracklist": "https://api.deezer.com/artist/647650/top?limit=50",                  "type": "artist"              },              "album": {                  "id": 590766262,                  "title": "Clancy",                  "cover": "https://api.deezer.com/album/590766262/image",                  "cover\_small": "https://e-cdns-images.dzcdn.net/images/cover/4f2819429ed92d35a649d609e39b29b5/56x56-000000-80-0-0.jpg",                  "cover\_medium": "https://e-cdns-images.dzcdn.net/images/cover/4f2819429ed92d35a649d609e39b29b5/250x250-000000-80-0-0.jpg",                  "cover\_big": "https://e-cdns-images.dzcdn.net/images/cover/4f2819429ed92d35a649d609e39b29b5/500x500-000000-80-0-0.jpg",                  "cover\_xl": "https://e-cdns-images.dzcdn.net/images/cover/4f2819429ed92d35a649d609e39b29b5/1000x1000-000000-80-0-0.jpg",                  "md5\_image": "4f2819429ed92d35a649d609e39b29b5",                  "tracklist": "https://api.deezer.com/album/590766262/tracks",                  "type": "album"              },              "type": "track"          }  ]  } |
| Overall, Image Screenshot |  |

*Pokemon REST API for search Pokemon info (Evolution chain: Pikachu)*

|  |  |
| --- | --- |
| HTTP link request | <https://pokeapi.co/api/v2/evolution-chain/10/> |
| Request Method | GET |
| Request Parameters Key | N/A |
| Request Parameters Value | N/A |
| HTTP Response | 200 OK |
| Data Format of Response | {      "baby\_trigger\_item": null,      "chain": {          "evolution\_details": [],          "evolves\_to": [              {                  "evolution\_details": [                      {                          "gender": null,                          "held\_item": null,                          "item": null,                          "known\_move": null,                          "known\_move\_type": null,                          "location": null,                          "min\_affection": null,                          "min\_beauty": null,                          "min\_happiness": 220,                          "min\_level": null,                          "needs\_overworld\_rain": false,                          "party\_species": null,                          "party\_type": null,                          "relative\_physical\_stats": null,                          "time\_of\_day": "",                          "trade\_species": null,                          "trigger": {                              "name": "level-up",                              "url": "https://pokeapi.co/api/v2/evolution-trigger/1/"                          },                          "turn\_upside\_down": false                      }                  ],                  "evolves\_to": [                      {                          "evolution\_details": [                              {                                  "gender": null,                                  "held\_item": null,                                  "item": {                                      "name": "thunder-stone",                                      "url": "https://pokeapi.co/api/v2/item/83/"                                  },                                  "known\_move": null,                                  "known\_move\_type": null,                                  "location": null,                                  "min\_affection": null,                                  "min\_beauty": null,                                  "min\_happiness": null,                                  "min\_level": null,                                  "needs\_overworld\_rain": false,                                  "party\_species": null,                                  "party\_type": null,                                  "relative\_physical\_stats": null,                                  "time\_of\_day": "",                                  "trade\_species": null,                                  "trigger": {                                      "name": "use-item",                                      "url": "https://pokeapi.co/api/v2/evolution-trigger/3/"                                  },                                  "turn\_upside\_down": false                              }                          ],                          "evolves\_to": [],                          "is\_baby": false,                          "species": {                              "name": "raichu",                              "url": "https://pokeapi.co/api/v2/pokemon-species/26/"                          }                      }                  ],                  "is\_baby": false,                  "species": {                      "name": "pikachu",                      "url": "https://pokeapi.co/api/v2/pokemon-species/25/"                  }              }          ],          "is\_baby": true,          "species": {              "name": "pichu",              "url": "https://pokeapi.co/api/v2/pokemon-species/172/"          }      },      "id": 10  } |
| Overall, Image Screenshot |  |

*NASA REST API for search current close-approach data for all asteroids and comets (Comet: Halley)*

|  |  |
| --- | --- |
| HTTP link request | <https://ssd-api.jpl.nasa.gov/cad.api?des=1P&date-min=1900-01-01&date-max=2200-01-01&dist-max=0.5> |
| Request Method | GET |
| Request Parameters Key | * Des * Date-min * Date-max * Dist-max |
| Request Parameters Value | * 1P * 1900-01-01 * 2200-01-01 * 0.5 |
| HTTP Response | 200 OK |
| Data Format of Response | {      "signature": {          "source": "NASA/JPL SBDB Close Approach Data API",          "version": "1.5"      },      "count": 4,      "fields": [          "des",          "orbit\_id",          "jd",          "cd",          "dist",          "dist\_min",          "dist\_max",          "v\_rel",          "v\_inf",          "t\_sigma\_f",          "h"      ],      "data": [          [              "1P",              "74",              "2418812.034760981",              "1910-May-20 12:50",              "0.15135174910943",              "0.151351139488561",              "0.151352358730299",              "70.5589933545045",              "70.5587438529222",              "< 00:01",              null          ],          [              "1P",              "74",              "2446531.406135472",              "1986-Apr-10 21:45",              "0.417245015680876",              "0.417244474656842",              "0.417245556704909",              "57.0396928944555",              "57.0395809392099",              "< 00:01",              null          ],          [              "1P",              "74",              "2474034.968011879",              "2061-Jul-29 11:14",              "0.47740913390507",              "0.477408567777951",              "0.477409700032215",              "83.4181115975079",              "83.4180446920645",              "< 00:01",              null          ],          [              "1P",              "74",              "2500614.010697836",              "2134-May-07 12:15",              "0.09158753867252",              "0.0915658086171887",              "0.0916092790880875",              "65.2797016258827",              "65.2792559703622",              "00:04",              null          ]      ]  } |
| Overall, Image Screenshot |  |

**SEARCH for Public SOAP Services**

*NumberToWords SOAP (Number: 123 Response: one hundred and twenty three)*

|  |  |
| --- | --- |
| HTTP link request | <https://www.dataaccess.com/webservicesserver/numberconversion.wso?WSDL> |
| Request Method used | POST |
| Request Header  Key | Content-Type |
| Request Header  Value | text/xml |
| Request XML body | <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:web="http://www.dataaccess.com/webservicesserver/">     <soapenv:Header/>     <soapenv:Body>        <web:NumberToWords>           <web:ubiNum>123</web:ubiNum>        </web:NumberToWords>     </soapenv:Body>  </soapenv:Envelope> |
| Response XML body | <?xml version="1.0" encoding="utf-8"?>  <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">      <soap:Body>          <m:NumberToWordsResponse xmlns:m="http://www.dataaccess.com/webservicesserver/">              <m:NumberToWordsResult>one hundred and twenty three </m:NumberToWordsResult>          </m:NumberToWordsResponse>      </soap:Body>  </soap:Envelope> |
| Overall, Image Screenshot |  |

*Calculator SOAP (Add: 30 and 60 Response: 90)*

|  |  |
| --- | --- |
| HTTP link request | <http://www.dneonline.com/calculator.asmx?WSDL> |
| Request Method used | POST |
| Request Header  Key | Content-Type |
| Request Header  Value | text/xml |
| Request XML body | <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:tem="http://tempuri.org/">     <soapenv:Header/>     <soapenv:Body>        <tem:Add>           <tem:intA>30</tem:intA>           <tem:intB>60</tem:intB>        </tem:Add>     </soapenv:Body>  </soapenv:Envelope> |
| Response XML body | <?xml version="1.0" encoding="utf-8"?>  <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">      <soap:Body>          <AddResponse xmlns="http://tempuri.org/">              <AddResult>90</AddResult>          </AddResponse>      </soap:Body>  </soap:Envelope> |
| Overall, Image Screenshot |  |

Currency Soap (Gets the list of countries and their currencies)

|  |  |
| --- | --- |
| HTTP link request | http://webservices.oorsprong.org/websamples.countryinfo/CountryInfoService.wso |
| Request Method used | POST |
| Request Header  Key | Content-Type |
| Request Header  Value | text/xml |
| Request XML body | <?xml version="1.0" encoding="utf-8"?>  <soap12:Envelope xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">    <soap12:Body>      <ListOfCurrenciesByName xmlns="http://www.oorsprong.org/websamples.countryinfo">      </ListOfCurrenciesByName>    </soap12:Body>  </soap12:Envelope> |
| Response XML body | <?xml version="1.0" encoding="utf-8"?>  <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">      <soap:Body>          <m:ListOfCurrenciesByNameResponse xmlns:m="http://www.oorsprong.org/websamples.countryinfo">              <m:ListOfCurrenciesByNameResult>                  <m:tCurrency>                      <m:sISOCode>AFA</m:sISOCode>                      <m:sName>Afghanis</m:sName>                  </m:tCurrency>                  <m:tCurrency>                      <m:sISOCode>DZD</m:sISOCode>                      <m:sName>Algeria Dinars</m:sName>                  </m:tCurrency>                  <m:tCurrency>                      <m:sISOCode>MGA</m:sISOCode>                      <m:sName>Ariary</m:sName>                  </m:tCurrency>                  <m:tCurrency>                      <m:sISOCode>AWG</m:sISOCode>                      <m:sName>Aruba Guilders (also called Florins)</m:sName>                  </m:tCurrency>                  <m:tCurrency>                      <m:sISOCode>AUD</m:sISOCode>                      <m:sName>Australian Dollars</m:sName>                  </m:tCurrency>                  <m:tCurrency>                      <m:sISOCode>BSD</m:sISOCode>                      <m:sName>Bahamas Dollars</m:sName>                  </m:tCurrency>                  <m:tCurrency>                      <m:sISOCode>BHD</m:sISOCode>                      <m:sName>Bahrain Dinars</m:sName>                  </m:tCurrency> |
| Overall, Image Screenshot |  |

A screenshot of a computer

Description automatically generated