School of Computing (SoC)

ST0524

Fundamental of Programming 2

ASSIGNMENT 1

Endpoints Documents (DataSet 4)

**Endpoint 1:**

|  |  |  |  |
| --- | --- | --- | --- |
| |  | | --- | | **GET** | | /all | |
|  | Get all data from dataset | |
|  | | |
| **Parameters** | | |
| Name | Type | Description |
| N.A. |  |  |
|  | | |
| **Responses** | Content Type: application.json | |
| Code | Description | |
| 200 | Example call: /all  Example Value:   |  | | --- | | **[**  **{**  **"year": "2013",**  **"uni\_code": "NTU",**  **"university": "Nanyang Technological University",**  **"school": "College of Business (Nanyang Business School)",**  **"degree": "Accountancy and Business",**  **"employment\_rate\_overall": 97.4,**  **"employment\_rate\_ft\_perm": 96.1,**  **"basic\_monthly\_mean": 3701,**  **"basic\_monthly\_median": 3200,**  **"gross\_monthly\_mean": 3727,**  **"gross\_monthly\_median": 3350,**  **"gross\_mthly\_25\_percentile": 2900,**  **"gross\_mthly\_75\_percentile": 4000**  **},**  **…………**  **…………**  **…………**  **]** | | |

**Endpoint 2:**

|  |  |  |  |
| --- | --- | --- | --- |
| |  | | --- | | **GET** | | /year/{year} | |
|  | Return data of a given year | |
|  | | |
| **Parameters** | | |
| Name | Type | Description |
| year | path | Year of interest |
|  | | |
| **Responses** | Content Type: application.json | |
| Code | Description | |
| 200 | Example call: /year/2019  Example Value:   |  | | --- | | **[**  **{**  **"year": "2019",**  **"uni\_code": "NTU",**  **"university": "Nanyang Technological University",**  **"school": "College of Business (Nanyang Business School)",**  **"degree": "Accountancy",**  **"employment\_rate\_overall": 97.5,**  **"employment\_rate\_ft\_perm": 94,**  **"basic\_monthly\_mean": 3220,**  **"basic\_monthly\_median": 3000,**  **"gross\_monthly\_mean": 3254,**  **"gross\_monthly\_median": 3000,**  **"gross\_mthly\_25\_percentile": 3000,**  **"gross\_mthly\_75\_percentile": 3200**  **},**  **………**  **………**  **]** |   No record found:   |  | | --- | | **[]** | | |

**Endpoint 3:**

|  |  |  |  |
| --- | --- | --- | --- |
| |  | | --- | | **GET** | | /university | |
|  | Return all available universities with their university code | |
|  | | |
| **Parameters** | | |
| Name | Type | Description |
| N.A. |  |  |
|  | | |
| **Responses** | Content Type: application.json | |
| Code | Description | |
| 200 | Example call: /university  Example Value:   |  | | --- | | **[**  **{**  **"code": "NTU",**  **"name": "Nanyang Technological University"**  **},**  **{**  **"code": "NUS",**  **"name": "National University of Singapore"**  **},**  **{**  **"code": "SMU",**  **"name": "Singapore Management University"**  **},**  **{**  **"code": "SIT",**  **"name": "Singapore Institute of Technology"**  **},**  **{**  **"code": "SUTD",**  **"name": "Singapore University of Technology and Design"**  **},**  **{**  **"code": "SUSS",**  **"name": "Singapore University of Social Sciences"**  **}**  **]** | | |

**Endpoint 4:**

|  |  |  |  |
| --- | --- | --- | --- |
| |  | | --- | | **GET** | | /university/{uniCode} | |
|  | Return data from the given university code. | |
|  | | |
| **Parameters** | | |
| Name | Type | Description |
| uniCode | path | The university code e.g. NUS |
|  | | |
| **Responses** | Content Type: application.json | |
| Code | Description | |
| 200 | Example call: / university/NUS  Example Value:   |  | | --- | | **[**  **{**  **"year": "2013",**  **"uni\_code": "NUS",**  **"university": "National University of Singapore",**  **"school": "Faculty of Arts & Social Sciences",**  **"degree": "Bachelor of Arts",**  **"employment\_rate\_overall": 84.8,**  **"employment\_rate\_ft\_perm": 70.1,**  **"basic\_monthly\_mean": 2741,**  **"basic\_monthly\_median": 2730,**  **"gross\_monthly\_mean": 2888,**  **"gross\_monthly\_median": 2800,**  **"gross\_mthly\_25\_percentile": 2500,**  **"gross\_mthly\_75\_percentile": 3080**  **},**  **………**  **………**  **]** |   No record found:   |  | | --- | | **[]** | | |

**Endpoint 5:**

|  |  |  |  |
| --- | --- | --- | --- |
| |  | | --- | | **GET** | | /university/{uniCode}/year/{year} | |
|  | Return data from the given university code in a given year. | |
|  | | |
| **Parameters** | | |
| Name | Type | Description |
| uniCode | path | The university code e.g. NUS |
| year | path | Year of interest |
|  | | |
| **Responses** | Content Type: application.json | |
| Code | Description | |
| 200 | Example call: /university/SUTD/year/2020  Example Value:   |  | | --- | | **[**  **{**  **"year": "2020",**  **"uni\_code": "SUTD",**  **"university": "Singapore University of Technology and Design",**  **"school": "SUTD",**  **"degree": "Bachelor of Engineering (Engineering Product Development)",**  **"employment\_rate\_overall": 94.6,**  **"employment\_rate\_ft\_perm": 82.1,**  **"basic\_monthly\_mean": 3809,**  **"basic\_monthly\_median": 3800,**  **"gross\_monthly\_mean": 3901,**  **"gross\_monthly\_median": 3800,**  **"gross\_mthly\_25\_percentile": 3500,**  **"gross\_mthly\_75\_percentile": 4150**  **},**  **………**  **………**  **]** |   No record found:   |  | | --- | | **[]** | | |

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