***API1****: Get prediction of next month’s top 10 language and their repository amounts.*

**URL**: <http://52.14.21.138:2222/api/top10/>

**Arguments**: None

**Method**: GET

**Example**: <http://52.14.21.138:2222/api/top10/>

**Response**:

**Type**: Json

{

"C#":1506.0,

"C++":1275.0,

"CSS":1420.0,

"HTML":4645.0,

"Java":5358.0,

"JavaScript":6620.0,

"PHP":1444.0,

"Python":3488.0,

"Ruby":1019.0,

"TypeScript":1024.0

}

***API2****: Get predict amount of repositories of a certain programming language in days from now.*

**URL**: [http://52.14.21.138:2222/api/pred/days/?days={days}&language={language}](http://52.14.21.138:2222/api/pred/days/?days=%7Bdays%7D&language=%7Blanguage%7D)

**Arguments**:

|  |  |  |
| --- | --- | --- |
| Arguments | Comment | Type |
| days | How many future days to predict | Int |
| language | What language to predict | String |

**Method:** GET

**Example**: <http://52.14.21.138:2222/api/pred/days/?days=5&language=Python>

**Response**:

**Type**: List

[3953.0,3892.0,3692.0,3498.0,3346.0]

***API3****: Get predict amount of repositories of a certain programming language in months from now.*

**URL**: [http://52.14.21.138:2222/api/pred/months/?months={months}&language={language}](http://52.14.21.138:2222/api/pred/months/?months=%7Bmonths%7D&language=%7Blanguage%7D)

**Arguments**:

|  |  |  |
| --- | --- | --- |
| Arguments | Comment | Type |
| months | How many future months to predict | Int |
| language | What language to predict | String |

**Method:** GET

**Example**: <http://52.14.21.138:2222/api/pred/days/?days=3&language=JavaScript>

**Response**:

**Type**: List

[7545.0,7391.0,6919.0]

***API4****: Get predict amount of total repositories uploaded on Github in days from now.*

**URL**: [http://52.14.21.138:2222/api/pred/days/total/?days={days}](http://52.14.21.138:2222/api/pred/months/?months=%7Bmonths%7D&language=%7Blanguage%7D)

**Arguments**:

|  |  |  |
| --- | --- | --- |
| Arguments | Comment | Type |
| days | How many future days to predict | Int |

**Method:** GET

**Example**: <http://52.14.21.138:2222/api/pred/days/total/?days=7>

**Response**:

**Type**: List

[59523.0,58348.0,54689.0,54095.0,50951.0,40259.0,45287.0]

***API5****: Get month average amount of repositories of languages.*

**URL**: [http://52.14.21.138:2222/api/monthavg/?timestamp={timestamp}](http://52.14.21.138:2222/api/pred/days/total/?days=7)

**Arguments**:

|  |  |  |
| --- | --- | --- |
| Arguments | Comment | Type |
| timestamp | Timestamp, use first day of month to represent month. | String |

**Method:** GET

**Example 1**: <http://52.14.21.138:2222/api/monthavg/?timestamp=20180101>

**Response**:

**Type**: Json

{

"C":831.0,

"C#":1476.0,

"C++":1220.0,

"CSS":1393.0,

"HTML":4215.0,

"Java":4765.0,

"JavaScript":5923.0,

"JupyterNotebook":557.0,

"PHP":1415.0,

"Python":3130.0,

"Ruby":715.0,

"Shell":1437.0,

"TypeScript":814.0

}

**Example 2**: <http://52.14.21.138:2222/api/monthavg/?timestamp=20150601>

**Response**:

**Type**: Json

{

"C":373.0,

"C#":434.0,

"C++":466.0,

"CSS":516.0,

"HTML":1082.0,

"Java":1668.0,

"JavaScript":1808.0,

"PHP":667.0,

"Python":873.0,

"R":717.0,

"Ruby":637.0,

"Shell":439.0

}