

Feature Request App:  
OS Ubuntu  
Python 2.7.12

### **Installation Steps:**

- On terminal run below command
  - `sudo apt-get update && sudo apt-get -y upgrade`
  - `sudo apt-get install python-pip`
  - `pip install -r requirements.txt`
  - `python app.py`

### **API Feature -**

- **Pagination** - If List API has more than 30 object, the JSON will automatically put the page urls in link hash.
  - `"links": {  
    "first": "/clients",  
    "last": "/clients?page%5Bnumber%5D=2",  
    "prev": "/clients?page%5Bnumber%5D=1",  
    "self": "/clients?page%5Bnumber%5D=2"  
},`
- **Sorting** - One can sort the response using -
  - <http://127.0.0.1:5000/clients?sort=name>
  - <http://127.0.0.1:5000/clients?sort=-name>
- **Search** - One can search by -
  - `GET /clients?filter=[{"name":"field_name","op":"operator","val":"field_value"}]`
  - `GET /clients?filter=[{"name":"name","op":"eq","val":"Client B"}]`
  - Common available operators:
    - any: used to filter on to many relationships
    - between: used to filter a field between two values
    - endswith: check if field ends with a string
    - eq: check if field is equal to something
    - ge: check if field is greater than or equal to something
    - gt: check if field is greater than to something
    - has: used to filter on to one relationships
    - ilike: check if field contains a string (case insensitive)
    - in\_: check if field is in a list of values
    - is\_: check if field is a value
    - isnot: check if field is not a value
    - like: check if field contains a string
    - le: check if field is less than or equal to something
    - lt: check if field is less than to something
    - match: check if field match against a string or pattern
    - ne: check if field is not equal to something
    - notilike: check if field does not contains a string (case insensitive)
    - notin\_: check if field is not in a list of values
    - notlike: check if field does not contains a string
    - startswith: check if field starts with a string

## **ALL APIS:**

### **Clients:**

**GET: <http://127.0.0.1:5000/clients/1>**

```
{
  "data": {
    "attributes": {
      "name": "Client A"
    },
    "id": "1",
    "links": {
      "self": "/clients/1"
    },
    "type": "client"
  },
  "jsonapi": {
    "version": "1.0"
  },
  "links": {
    "self": "/clients/1"
  }
}
```

**LIST: <http://127.0.0.1:5000/clients>**

```
{
  "data": [
    {
      "attributes": {
        "name": "Client A"
      },
      "id": "1",
      "links": {
        "self": "/clients/1"
      },
      "type": "client"
    },
    {
      "attributes": {
        "name": "Client B"
      },
      "id": "2",
      "links": {
        "self": "/clients/2"
      },
      "type": "client"
    }
  ],
  "jsonapi": {
    "version": "1.0"
  },
  "links": {
    "first": "/clients",
    "last": "/clients?page%5Bnumber%5D=2",
    "prev": "/clients?page%5Bnumber%5D=1",
    "self": "/clients?page%5Bnumber%5D=2"
  },
  "meta": {
    "count": 2
  }
}
```

```
}  
}
```

**PATCH: <http://127.0.0.1:5000/clients/1>**

```
{  
  "data": {  
    "type": "client",  
    "id": "1",  
    "attributes": {  
      "name": "Client C"  
    }  
  }  
}
```

**POST: <http://127.0.0.1:5000/clients>**

```
{  
  "data": {  
    "type": "client",  
    "attributes": {  
      "name": "Client B"  
    }  
  }  
}
```

## **Priority:**

**GET: http://127.0.0.1:5000/priorities/1**

```
{
  "data": {
    "attributes": {
      "priority": 12
    },
    "id": "1",
    "links": {
      "self": "/priorities/1"
    },
    "type": "priority"
  },
  "jsonapi": {
    "version": "1.0"
  },
  "links": {
    "self": "/priorities/1"
  }
}
```

**LIST: http://127.0.0.1:5000/priorities**

```
{
  "data": [
    {
      "attributes": {
        "priority": 12
      },
      "id": "1",
      "links": {
        "self": "/priorities/1"
      },
      "type": "priority"
    },
    {
      "attributes": {
        "priority": 12
      },
      "id": "2",
      "links": {
        "self": "/priorities/2"
      },
      "type": "priority"
    }
  ],
  "jsonapi": {
    "version": "1.0"
  },
  "links": {
    "self": "/priorities"
  },
  "meta": {
    "count": 2
  }
}
```

**PATCH: http://127.0.0.1:5000/priorities/1**

```
{
  "data": {
    "type": "priority",
    "id": "1",
    "attributes": {
      "priority": "12"
    }
  }
}
```

**POST: http://127.0.0.1:5000/priorities**

```
{
  "data": {
    "type": "priority",
    "attributes": {
      "priority": "1"
    }
  }
}
```

## **Product Area:**

**GET: http://127.0.0.1:5000/product\_areas/1**

```
{
  "data": {
    "attributes": {
      "name": "Policies"
    },
    "id": "1",
    "links": {
      "self": "/product_areas/1"
    },
    "type": "product_area"
  },
  "jsonapi": {
    "version": "1.0"
  },
  "links": {
    "self": "/product_areas/1"
  }
}
```

**LIST: http://127.0.0.1:5000/product\_areas**

```
{
  "data": [
    {
      "attributes": {
        "name": "Policies"
      },
      "id": "1",
      "links": {
        "self": "/product_areas/1"
      },
      "type": "product_area"
    },
    {
      "attributes": {
        "name": "Billing"
      },
      "id": "2",
      "links": {
        "self": "/product_areas/2"
      },
      "type": "product_area"
    }
  ],
  "jsonapi": {
    "version": "1.0"
  },
  "links": {
    "self": "/product_areas"
  },
  "meta": {
    "count": 2
  }
}
```

**PATCH: http://127.0.0.1:5000/product\_areas/3**

```
{
  "data": {
    "type": "product_area",
    "id": "3",
    "attributes": {
      "name": "Billings"
    }
  }
}
```

**POST: http://127.0.0.1:5000/product\_areas**

```
{
  "data": {
    "type": "product_area",
    "attributes": {
      "name": "Billing"
    }
  }
}
```

## **Feature Request:**

**GET: http://127.0.0.1:5000/feature\_requests/1**

```
{
  "data": {
    "attributes": {
      "description": "Testing1...",
      "target_date": "1990-12-18",
      "title": "Test1"
    },
    "id": "1",
    "links": {
      "self": "/feature_requests/1"
    },
    "relationships": {
      "client": {
        "links": {
          "self": "/clients/1"
        }
      },
      "client_priority": {
        "links": {
          "self": "/priorities/1"
        }
      },
      "product_area": {
        "links": {
          "self": "/product_areas/1"
        }
      }
    },
    "type": "feature_request"
  },
  "jsonapi": {
    "version": "1.0"
  },
  "links": {
    "self": "/feature_requests/1"
  }
}
```

**LIST: http://127.0.0.1:5000/feature\_requests**

```
{
  "data": [
    {
      "attributes": {
        "description": "Testing1...",
        "target_date": "1990-12-18",
        "title": "Test1"
      },
      "id": "1",
      "links": {
        "self": "/feature_requests/1"
      },
      "relationships": {
        "client": {
          "links": {
            "self": "/clients/1"
          }
        }
      }
    }
  ]
}
```



```

    },
    "client_priority": {
      "links": {
        "self": "/priorities/1"
      }
    },
    "product_area": {
      "links": {
        "self": "/product_areas/1"
      }
    }
  },
  "type": "feature_request"
},
{
  "attributes": {
    "description": "Testing1...",
    "target_date": "1990-12-18",
    "title": "Test1"
  },
  "id": "2",
  "links": {
    "self": "/feature_requests/2"
  },
  "relationships": {
    "client": {
      "links": {
        "self": "/clients/2"
      }
    },
    "client_priority": {
      "links": {
        "self": "/priorities/2"
      }
    },
    "product_area": {
      "links": {
        "self": "/product_areas/2"
      }
    }
  },
  "type": "feature_request"
}
],
"jsonapi": {
  "version": "1.0"
},
"links": {
  "self": "/feature_requests"
},
"meta": {
  "count": 2
}
}

```

**PATCH: http://127.0.0.1:5000/feature\_requests/1**

```
{
  "data": {
    "type": "feature_request",
    "id": "1",
    "attributes": {
      "title": "Test1Patch",
      "description": "Testing1...",
      "target_date": "1990-12-18"
    },
    "relationships": {
      "client": {
        "data": {
          "type": "client",
          "id": 1
        }
      },
      "client_priority": {
        "data": {
          "type": "priority",
          "id": 1
        }
      },
      "product_area": {
        "data": {
          "type": "product_area",
          "id": 1
        }
      }
    }
  }
}
```

**POST: http://127.0.0.1:5000/feature\_requests**

```
{
  "data": {
    "type": "feature_request",
    "attributes": {
      "title": "Test",
      "description": "Testing...",
      "target_date": "1990-12-18"
    },
    "relationships": {
      "client": {
        "data": {
          "type": "client",
          "id": 1
        }
      },
      "client_priority": {
        "data": {
          "type": "priority",
          "id": 1
        }
      },
      "product_area": {
        "data": {
          "type": "product_area",
          "id": 1
        }
      }
    }
  }
}
```

}  
}  
}