

Blockly develop

Summary of requirements

Modify blockly, add some functions to blockly.

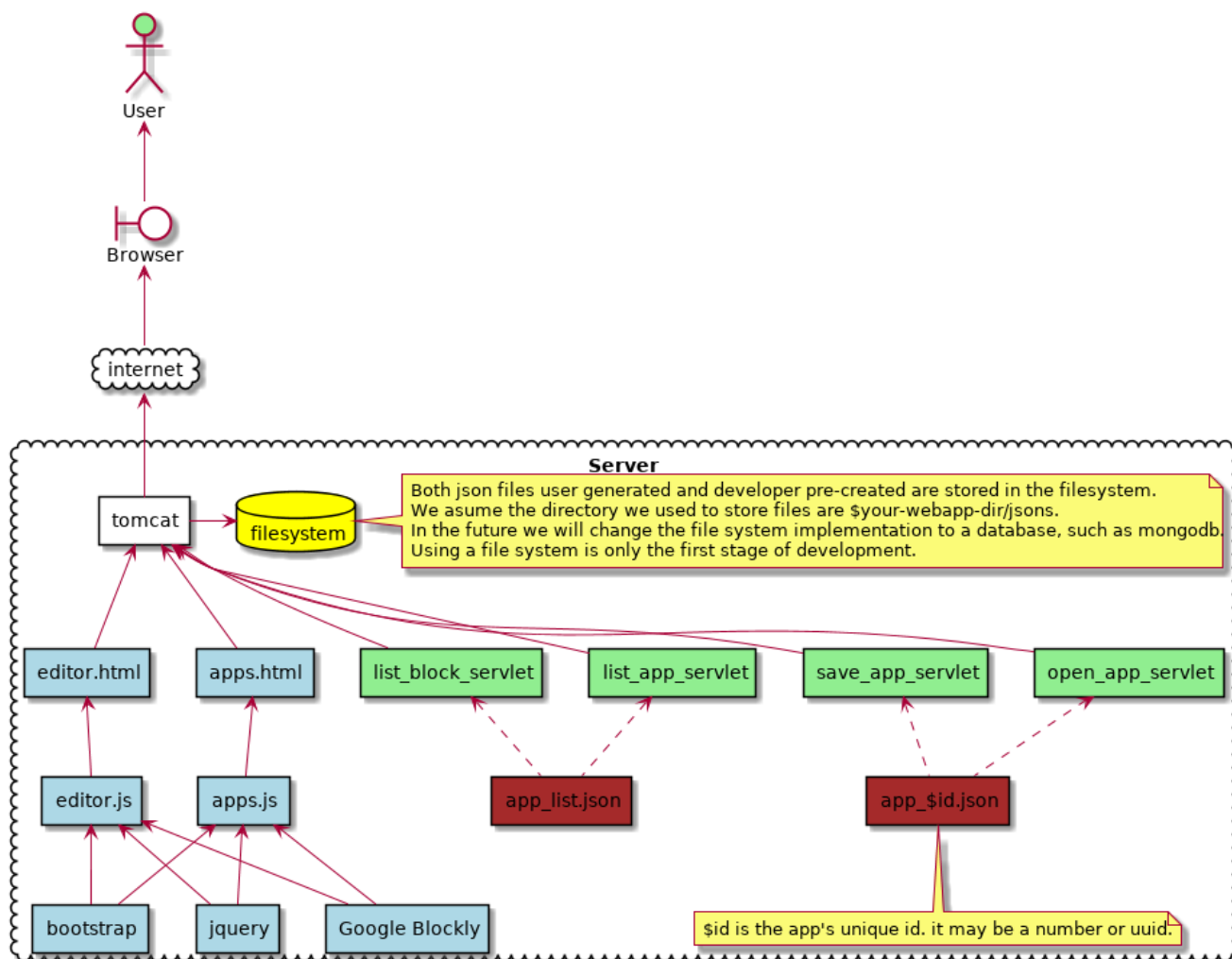
Usage for google blockly is at: <https://developers.google.com/blockly/>

We don't need User login, The first page is apps.html

Definitions

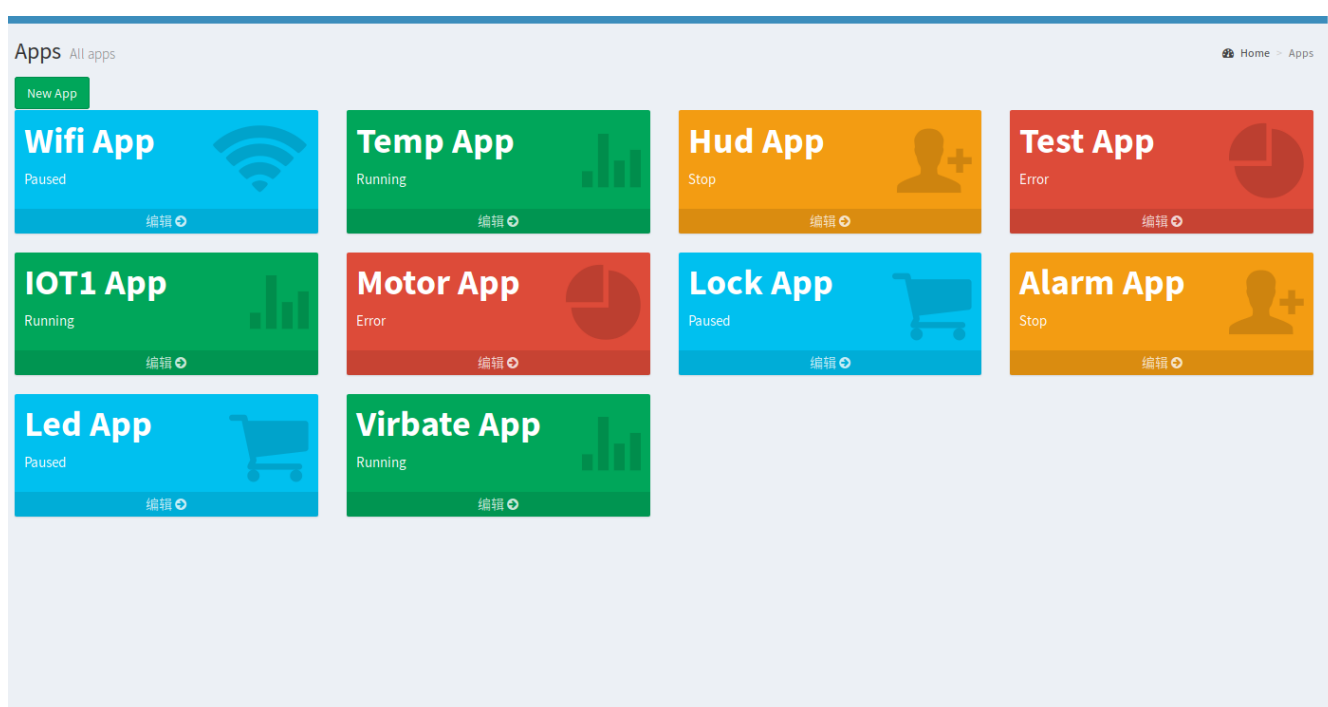
1. APP - An user-edited program that contains many blocks.
2. Block - A block is initially placed in the toolbox of the editing page (editor.html) , when used, the user drags it from the toolbox into the code editing area(editor.html). A block has input and output interface, block and block can be joined. All blocks in code editing area are combined into a APP.
3. Toolbox - A list on the west of the screen in editor.html that contains the available blocks of code.
4. Code editing area - An area where a user can drop blocks in the middle of the screen.

System overview

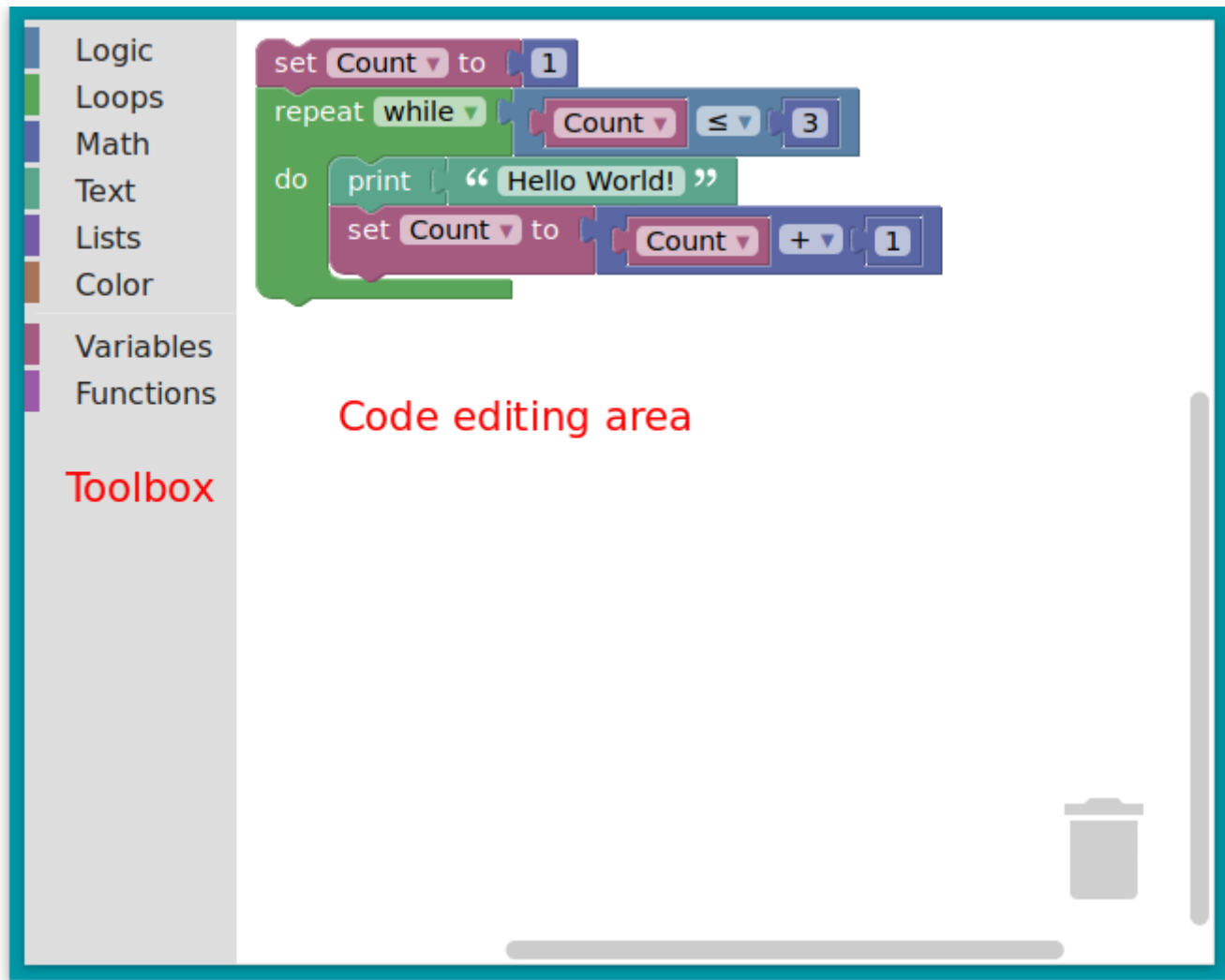


Page prototype

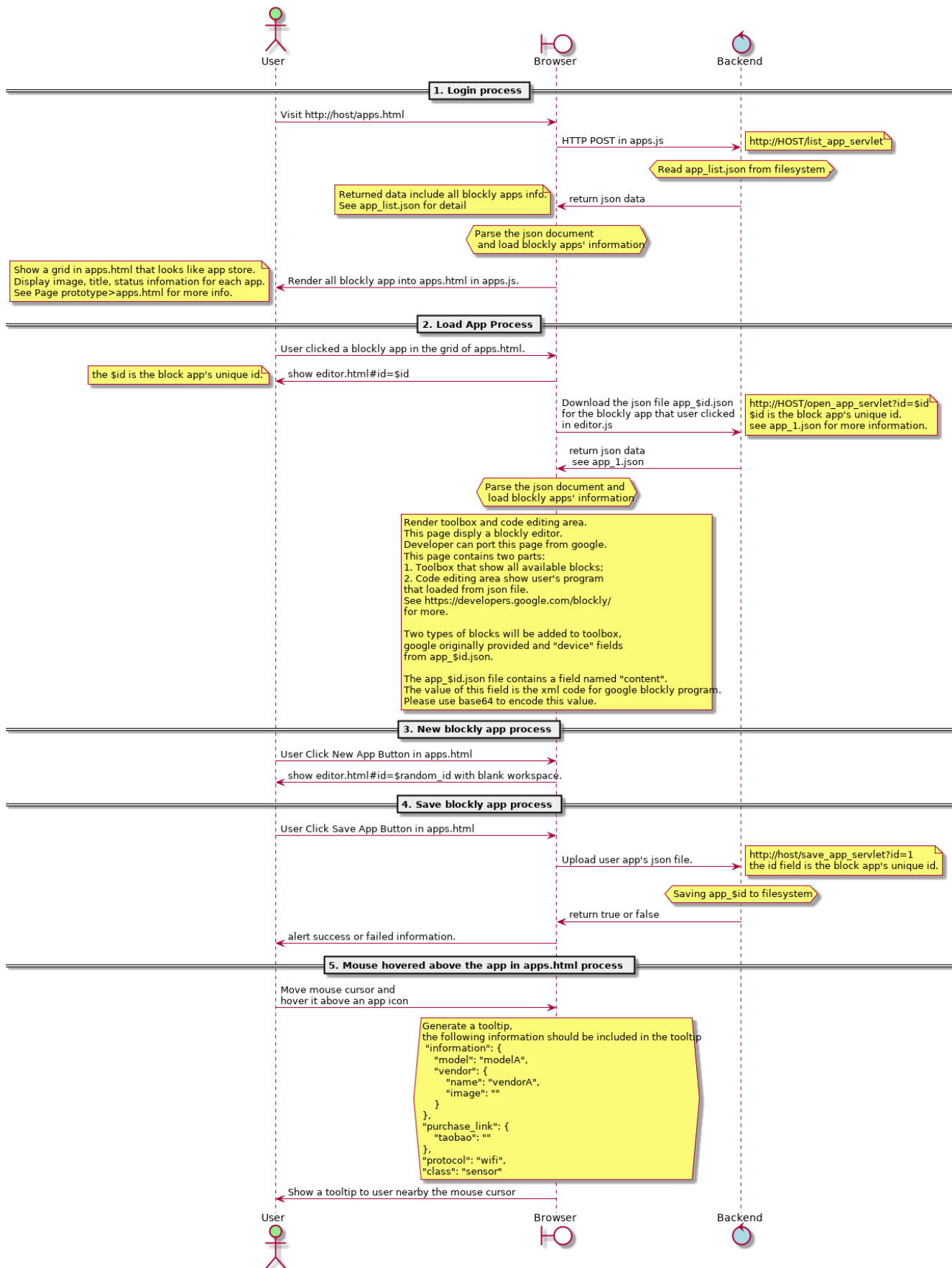
apps.html



editor.html



Working process



Sample data

app_list.json

```
{
  "flows": [{
    "information": {
      "name": "app_1",
      "id": 1,
      "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
      "author": {
        "name": "DEMO",
        "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
        "email": "test@test.com"
      },
      "description": "This is demo flow 1"
    },
    "status": {
      "status": ["running"],
      "error_info": {
        "error_code": "0",
        "error_message": "null"
      }
    },
    "last_sync_date": {
      "year": "num",
      "mouth": "num",
      "day": "num",
      "hour": "num",
      "minute": "num",
      "second": "num"
    }
  }, {
    "information": {
      "name": "2_sample",
      "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
      "author": {
        "name": "DEMO",
        "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
        "email": "test@test.com"
      }
    }
  }
}
```

```

    },
    "description": "This is demo flow 2"
  },
  "status": {
    "status": ["stop"],
    "error_info": {
      "error_code": "-1",
      "error_message": "some thing wrong"
    }
  },
  "last_sync_date": {
    "year": "num",
    "mouth": "num",
    "day": "num",
    "hour": "num",
    "minute": "num",
    "second": "num"
  }
}
}]
}

```

app_1.json

```

{
  "information": {
    "name": "app_1",
    "id": 1,
    "image":
    "https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2F%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
    "author": {
      "name": "DEMO",
      "image":
      "https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2F%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
      "email": "test@test.com"
    },
    "description": "This is demo flow 1"
  },
  "status": {
    "status": ["running"],
    "error_info": {
      "error_code": "0",
      "error_message": "null"
    }
  },
  "devices": [{

```

```

    "information": {
      "name": "A",
      "id": "1",
      "model": "modelA",
      "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
      "vendor": {
        "name": "vendorA",
        "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg"
      }
    },
    "purchase_link": {
      "taobao": "https://tshop.tmall.com/?spm=a21bo.2017.201862-
1.d1.5af911d9iNByAG&pos=1&mm_gxbid=1_2403371_b1c6ccd7a2273113da90776674700437&acm=2014
0506001.1003.2.3885235&scm=1003.2.20140506001.OTHER_1535185547761_3885235"
    },
    "protocol": "wifi",
    "class": "sensor",
    "input_data": [],
    "output_data": [{
      "name": "temperature",
      "data_type": ["num"],
      "data": [40]
    }]
  }, {
    "information": {
      "name": "B",
      "id": "2",
      "model": "modelB",
      "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
      "vendor": {
        "name": "vendorB",
        "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg"
      }
    },
    "purchase_link": {
      "taobao": "https://tshop.tmall.com/?spm=a21bo.2017.201862-
1.d1.5af911d9iNByAG&pos=1&mm_gxbid=1_2403371_b1c6ccd7a2273113da90776674700437&acm=2014
0506001.1003.2.3885235&scm=1003.2.20140506001.OTHER_1535185547761_3885235"
    },
  },

```



```

        "protocol": "wifi",
        "class": "fan",
        "input_data": [{
            "name": "speed",
            "data_type": ["num"]
        }],
        "output_data": [{
            "name": "status",
            "data_type": ["str"],
            "data": [""]
        }]
    }],
    "content": " 里保存blockly能是 的, 能 load和save的格式即可.",
    "last_sync_date": {
        "year": "num",
        "mouth": "num",
        "day": "num",
        "hour": "num",
        "minute": "num",
        "second": "num"
    }
}

```

2_sample.json

```

{
    "information": {
        "name": "2_sample",
        "image":
        "https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fitt%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
        "author": {
            "name": "DEMO",
            "image":
            "https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fitt%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
            "email": "test@test.com"
        },
        "description": "This is demo flow 2"
    },
    "status": {
        "status": ["stop"],
        "error_info": {
            "error_code": "-1",
            "error_message": "some thing wrong"
        }
    }
},

```

```

"devices": [{
  "information": {
    "name": "A",
    "id": "1",
    "model": "modelA",
    "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
    "vendor": {
      "name": "vendorA",
      "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg"
    }
  },
  "purchase_link": {
    "taobao": "https://tshop.tmall.com/?spm=a21bo.2017.201862-
1.d1.5af911d9iNByAG&pos=1&mm_gxbid=1_2403371_b1c6ccd7a2273113da90776674700437&acm=2014
0506001.1003.2.3885235&scm=1003.2.20140506001.OTHER_1535185547761_3885235"
  },
  "protocol": "wifi",
  "class": "sensor",
  "input_data": [],
  "output_data": [{
    "name": "temperature",
    "data_type": ["num"],
    "data": [40]
  }]
}],{
  "information": {
    "name": "B",
    "id": "2",
    "model": "modelB",
    "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg",
    "vendor": {
      "name": "vendorB",
      "image":
"https://timgsa.baidu.com/timg?image&quality=80&size=b9999_10000&sec=1533531791993&di=
4d473056f75f489e9774c96c3f9e99a5&imgtype=jpg&src=http%3A%2F%2Fimg1.imgtn.bdimg.com%2Fi
t%2Fu%3D3045023561%2C2402919987%26fm%3D214%26gp%3D0.jpg"
    }
  },
  "purchase_link": {
    "taobao": "https://tshop.tmall.com/?spm=a21bo.2017.201862-
1.d1.5af911d9iNByAG&pos=1&mm_gxbid=1_2403371_b1c6ccd7a2273113da90776674700437&acm=2014
0506001.1003.2.3885235&scm=1003.2.20140506001.OTHER_1535185547761_3885235"
  }
}

```

```

    },
    "protocol": "wifi",
    "class": "fan",
    "input_data": [{
        "name": "speed",
        "data_type": ["num"]
    }],
    "output_data": [{
        "name": "status",
        "data_type": ["str"],
        "data": [""]
    }]
}],
"content": " 里保存blockly能是 的, 能 load和save的格式即可.",
"last_sync_date": {
    "year": "num",
    "mouth": "num",
    "day": "num",
    "hour": "num",
    "minute": "num",
    "second": "num"
}
}

```