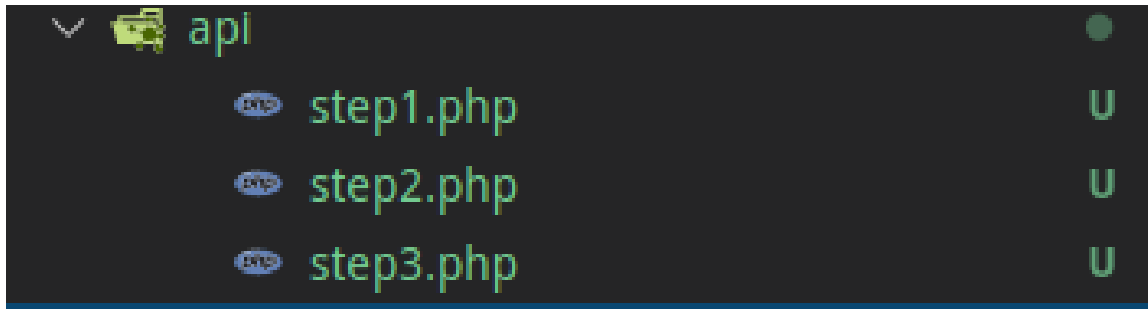


PhoneVice API v1.0

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3 API calls have been developed in total. The API flow is the same as in our web application, but with one major difference. Not all 3 calls are mandatory, for example if the user wants to omit the optional features step he is free to do so.

step1.php -> budget/range

request

GET /api/step1.php?budget=200&range=20

parameters:

budget -> REQUIRED

range -> OPTIONAL

response

HTTP 200 OK

```
{
  "phone_ids": [
    "5c1a9a6bb6e761aa888667e5",
    "5c1a9aa1b6e761aa88866836",
    "5c1a9aacb6e761aa88866846",
    "5c1a9abeb6e761aa88866863",
    "5c1a9bd6b6e761aa88866a08",
    "5c1a9be1b6e761aa88866a17"
  ],
  "initial_features": [
    "microSD",
    "nfc",
```

```
        "dualSim",  
    ]  
}
```

This API call takes a budget and a budget range as input and returns all phone ids that are in the requested budget range, as well as the initial available features of the phones.

step2.php -> features

request
GET api/step2.php?
phoneId[]=5c1a9a6bb6e761aa888667e5&**phoneId**[]=5c1a9aa1b6e761aa88866836
&**feature**[]=nfc&**feature**[]=dualSim

parameters:
phoneId[] -> REQUIRED
feature[] -> OPTIONAL

response
HTTP 200 OK

```
{  
  "phone_ids": [  
    "5c1a9c16b6e761aa88866a65",  
    "5c1a9cddb6e761aa88866b82",  
    "5c1aa01cb6e761aa8886704d",  
    "5c1aa063b6e761aa888670ac",  
    "5c1aa069b6e761aa888670b4",  
    "5c1aa097b6e761aa888670fa",  
    "5c1aa09cb6e761aa88867102"  
  ]  
}
```

This API call takes phone ids and features as input and returns the phone ids of the phones that support the requested features.

step3.php -> usage

request

GET api/step3.php?

phoneId[]=5c1a9a6bb6e761aa888667e5&phoneId[]=5c1a9aa1b6e761aa88866836
&usageGaming=2&usageSocial=3&usageVideo=5

parameters:

phoneId[] -> REQUIRED
usageGaming -> OPTIONAL
usageSocial -> OPTIONAL
usageVideo -> OPTIONAL

if usageGaming, usageSocial and usageVideo are omitted, then
usageBasic is taken into account.

response

HTTP 200 OK

```
[
  {
    "_id": {
      "$oid": "5c1aa069b6e761aa888670b4"
    },
    "summary": {
      "dimensions": [
        71.2,
        148.6,
        7.4,
        227.2,
        78294.37
      ],
      "weight": 145,
      "SoC": "Huawei HiSilicon KIRIN 659",
      "cpu": "4x 2.36 GHz ARM Cortex-A53, 4x 1.7 GHz ARM Cortex-A53,",
      "cores": "2",
      "gpu": "ARM Mali-T830 MP2,",
      "ram": "4 GB, 933 MHz",
      "capacities": "64 GB",
      "expansion": "microSD, microSDHC, microSDXC",
      "display": "5.84 in, IPS, 1080 x 2280 pixels, 24 bit",
      "battery": "3000 mAh, Li-Polymer",
      "platform": "Android 8.0 Oreo",
      ...
    }
  }
]
```

This API call takes phone ids and usage variables as input and returns detailed information about the top 3 phones that were calculated with the phoneVice recommendation tool.