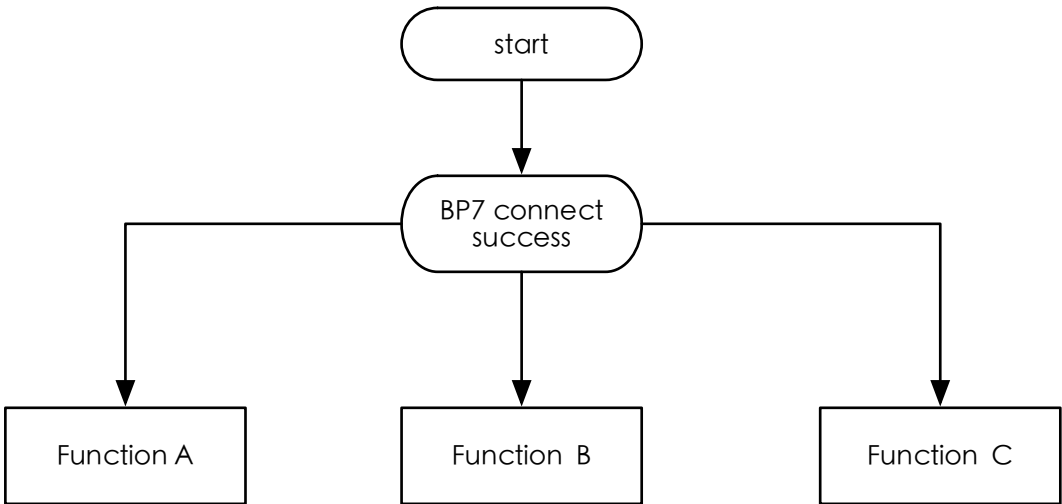# BP7 Function

Note: Api call must be serial call, that is, after the end of a Api, you can call the next Api, otherwise it will appear Api function failure.

```
                    ┌─────────────┐
                    │    start    │
                    └──────┬──────┘
                           │
                           ▼
                    ┌─────────────┐
        ┌───────────│ BP7 connect │───────────┐
        │           │   success   │           │
        │           └──────┬──────┘           │
        ▼                  ▼                  ▼
┌──────────────┐   ┌──────────────┐   ┌──────────────┐
│  Function A  │   │  Function  B │   │  Function  C │
└──────────────┘   └──────────────┘   └──────────────┘
```

Note: the 3 fuctions are parallel relationship, there is no order.

BP7 Function A – Online Measurement Fuction

Note：1. Api call must be serial call, that is, after the end of a Api, you can call the next Api, otherwise it will appear Api function failure.
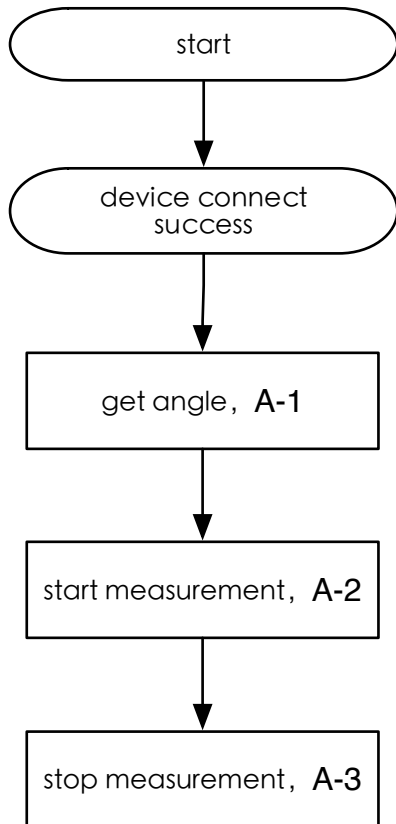2. In the BP7 measurement process, only to receive the stop measurement function (A–3), other Api failure.
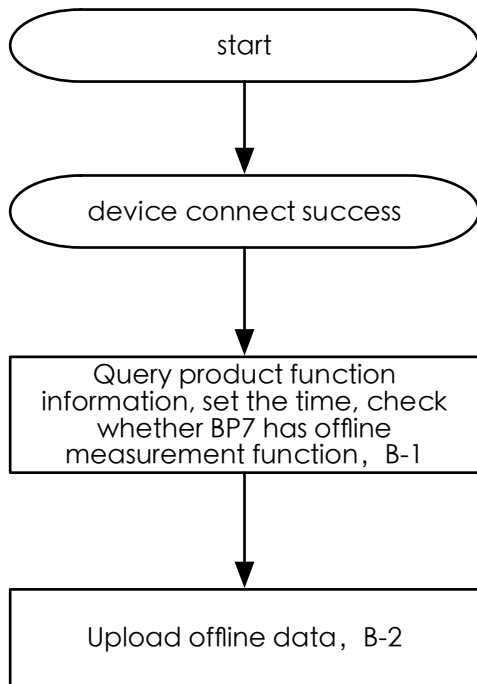
```
        ┌─────────────────┐
        │      start       │
        └─────────────────┘
                 │
                 ▼
        ┌─────────────────┐
        │ device connect   │
        │    success       │
        └─────────────────┘
                 │
                 ▼
        ┌─────────────────┐
        │ get angle,  A-1  │
        └─────────────────┘
                 │
                 ▼
        ┌─────────────────┐
        │ start measurement, A-2 │
        └─────────────────┘
                 │
                 ▼
        ┌─────────────────┐
        │ stop measurement, A-3 │
        └─────────────────┘
```

A-1：commandStartGetAngleWithUser: clientID:

A-2：commandStartMeasure: xiaoboWithHeart:

A-3：stopBPMeassureErrorBlock: errorBlock:
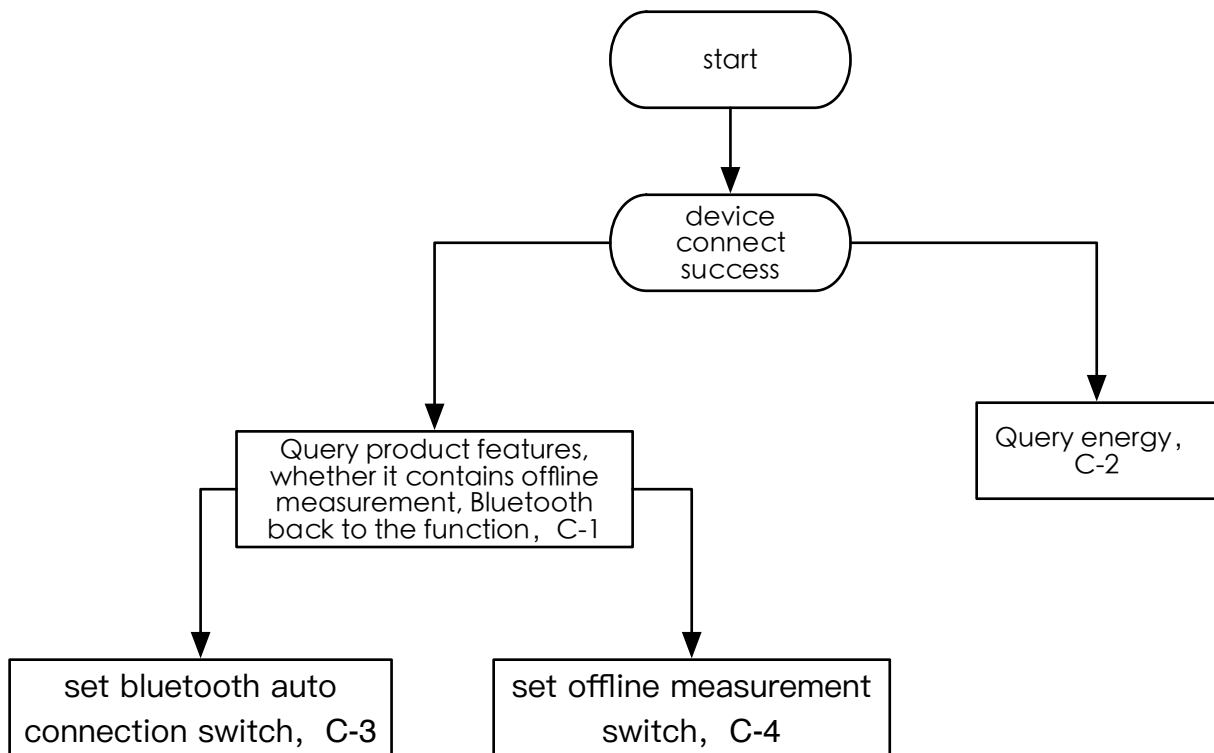
BP7 Function B – Upload Offline Data

Note: BP7 (B–1) must be called before using the offline measurement function of the Api, otherwise the offline data time may be wrong.

```
┌─────────────────────────┐
│          start          │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│  device connect success │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│  Query product function │
│  information, set the   │
│  time, check            │
│  whether BP7 has offline│
│  measurement function,  │
│  B-1                    │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│  Upload offline data,   │
│  B-2                    │
└─────────────────────────┘
```

B-1: commandFounction: errorBlock:

B-2: commandBatchUpload: pregress:

BP7 Function C –Querying and Setting Function

```
            ┌──────────┐
            │   start  │
            └─────┬────┘
                  │
                  ▼
            ┌──────────┐
            │  device  │
            │ connect  │
            │ success  │
            └─┬──────┬─┘
              │      │
              ▼      ▼
```

Query product features, whether it contains offline measurement, Bluetooth back to the function, C-1

Query energy, C-2

set bluetooth auto connection switch, C-3

set offline measurement switch, C-4

C-1: commandFounction: errorBlock:

C-2: commandEnergy: errorBlock:

C-3: commandSetBlueConnect: respond:

C-4: commandSetOffline: errorBlock: