

Maybe Overview

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Maybe project let developers be able to defer choices about app behavior that difficult to made at development time.

1 Android Library

- a. Communicate with Google Cloud Messaging and maybe backend server.

Why Google Cloud Messaging? When backend server get a new choice(s) for one device, we need **push** the change to device.

- b. Collect logs from device.

It should be able to cache logs and do batch upload.

- c. TODO: get decision tree from backend server and able to dynamically make decision on device.

- d. TODO: debug mode.

Let develop easily attach a setting activity for maybe variables. It should be generated by meta data.

2 Backend Server

2.1 Requirements

- a. provide choices for all devices (each device may has different choices)
- b. push changes of choice
- c. collect logs
- d. TODO: send decision tree to device

2.2 Tech roadmap

We use Meteor to develop backend.

repo address: <https://github.com/xcv58/backend>

3 Rewriter

Change maybe style codes to ordinary Java code. Such as: convert

```
1 maybe ("label") {  
2     // do something 0  
3 } or {  
4     // do something 1
```

```
5 } or {  
6     // do something 2  
7 }
```

to

```
1 int choice = maybeService.get("label");  
2 switch (choice) {  
3     case 0:  
4         // do something 0  
5         break;  
6     case 1:  
7         // do something 1  
8         break;  
9     case 2:  
10        // do something 2  
11        break;  
12    default:  
13        maybeService.log("get invalid choice for " + choice + " label");  
14        break;  
15 }
```

TODO: IDE support TODO: build system integration

4 TODO: Learning Part