Maybe Overview

Yihong Chen

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.

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

```
to
```

```
int choice = maybeService.get("label");
switch (choice) {
    case 0:
        // do something 0
        break;
    case 1:
        // do something 1
        break;
    case 2:
        // do something 2
        break;
    default:
        maybeService.log("get invalid choice for " + choice + " label");
        break;
}
```

TODO: IDE support TODO: build system integration

4 Learning Part