version 1.0.0

Mail App Architecture

gabe@seedess.com

Technical Architecture for Native Mail App

Ul and UX

The mail app UI will follow Material Design and UX will be developed with React-Native.

The pubsub channel is simply to notify realtime information such as new emails, classification or emails from AI etc.

The HTTP REST channel is for transferring large data such as email body and attachments.

Mail Al

The Mail Al backend can either support pubsub or expose a REST interface.

The Al subscribes to a /new-mail endpoint/channel.

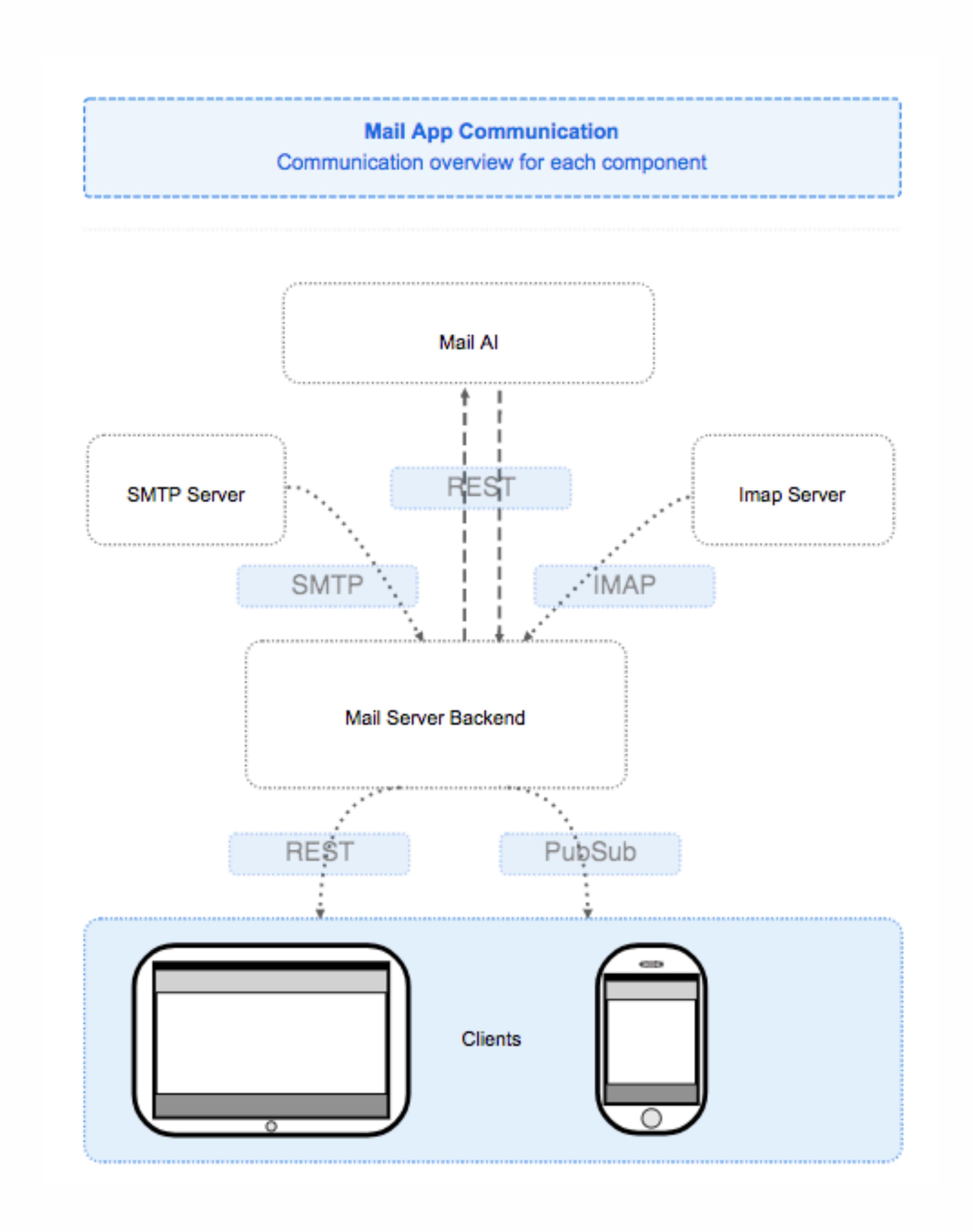
Each new email is sent to the /new-mail endpoint and the resulting analysis is published to the same endpoint.

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Example REST:

Request:

```
HTTP GET https://mail-ai.com/new-mail {
   id:'unique-abc',
   headers: [...],
   subject: 'Test Email'',
   from: 'user@example.com'',
   body: [...]
}
```

Response:

```
id: 'unique-abc',
categorize: ['test', 'important']
delete: false
```

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PubSub Protocols

https://deepstreamhub.com/blog/an-overview-of-realtime-protocols/

MQTT

Highly considering MQTT as the pubsub transport protocol. http://mqtt.org/faq

*The use of MQTT is because it's a binary pubsub transport predominantly used for low powred IoT devices and thus suitable for mobile apps. Eg: Facebook messgenger http://mqtt.org/2011/08/mqtt-used-by-facebook-messenger *MQTT is supported by many message queues. Eg: https://www.rabbitmq.com/mqtt.html *Standard protocol with many implementations https://github.com/mqtt/mqtt.github.io/wiki/Server%20support