

# DAR Report

## Hubba - Email Provider

Version 1.0

Prepared By: Development Hell

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Github Repository:

<https://github.com/DevelopmentHellaHell/SeniorProject>

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## **Revision History**

Version	Overview	Date
1.0	Initial DAR report	12/10/2022

## Decision

The following options will be considered as options for the email provider used for user communication within the application.

1. **Gmail**
  - a. Email service provided by Google
2. **Outlook**
  - a. Email service provided by Microsoft
3. **Yahoo**
  - a. Email service provided by Yahoo

## Analysis

	Gmail	Outlook	Yahoo
Free storage	15 GB 1	15 GB 1	1 TB 2
Scheduled emails	Available 2	Available 2	Unavailable 1
Email Limit Per Day	500 2	300 1	500 2
Secure Multipurpose Internet Mail Extensions (S/MIME) Encryption	Available 2	Available 2	Unavailable 1
Automatic Forwarding	Available 2	Available 2	Unavailable 1
<b>TOTAL</b>	9	8	7

# Recommendation

**Free storage:** Free storage is not as important in our application compared to the ability to send emails to deliver OTP to our users, however it is still relevant in order to be able to communicate administrative issues with our customer base. Yahoo provides substantially more storage compared to its competitors, with almost 67x more space in total. Using Google or Outlook would require developers to archive emails after a certain date in order to continue using the free storage provided.

**Scheduled emails:** Scheduled emails can be important for promotional emails in the future of our application for events or deals. Yahoo does not provide any option for scheduled emails without third-party applications which leaves it behind Google's and Outlook's provided functionalities.

**Email Limit Per Day:** Our email service will be primarily used for sending emails to verify user account log-ins and verifications. When looking towards the future, it is important to anticipate user base growth and consider the amount of emails sent in a day for the OTP service. Google and Yahoo allow for 200 more emails per day to send verification passphrases for services.

**S/MIME Encryption:** Since the primary purpose of the email service we will be using will be to deliver OTPs, the security of the email service is a large factor of concern. Yahoo does not allow for any S/MIME encryption, an encryption which uses public keys to ensure mail in transit cannot be read by an unwanted party. In contrast, Google and Outlook both provide this service between compatible mail service providers.

**Automatic Forwarding:** When using the email provider, it will be useful for the email to forward messages to developer accounts or for archiving. Google and Outlook allow for automatic forwarding of messages for all incoming emails, something Yahoo fails to provide.

**Conclusion:** Google is our recommended technology for being as secure as Outlook while providing more free features. Google also allows for 200 more emails sent daily compared to Outlook, which is a large difference when working on an application that aims to save money.

# References

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