

## The misterEmail App

### Requirements

Build an email client app. The user will be able to view his inbox and other folders, to look into an email and to compose new emails.

This app will not work with a real server, so emails are not really sent, but the user experience will feel real.

### Features List

- Display a list of emails (such as inbox)
- Click on an email-preview – opens the email for reading
- Show a read/unread state per email
- Display the unread emails count
- Compose – create a new email and send it
- Allow removing an email
- Filter emails: by search, by read/unread
- Allow sorting the emails by date and by title
- Allow viewing the *sent* emails
- Integration with KeepApp (link to edit and save an email as a note)

### More Features

- Support *staring* an email and allow viewing *starred* emails
- Support manually marking an email as read/unread
- Allow more options for emails sorting
- Allow more options for emails filtering
- When removing an email (e.g. from inbox) it should be displayed in the trash folder (done by setting the *removedAt* property to a timestamp).  
When removing from trash – email gets truly deleted
- Add a draft folder – email that is being composed is auto saved every 5 seconds and can be viewed in the draft folder until sent
- Support email labeling

### Initial UX

+ Compose

Inbox

Starred

Sent Mail

Drafts

33%

|  |  |          |
|--|--|----------|
| Itai   | One more email for the road - na na na                                   | 12:14 AM |
| Itai   | Normally I stay up late - but then I discovered Lorem ipsum dolor rea... | 12:13 AM |
| <div>Normally I stay up late</div> <div> Itai &lt;itai@gmail.com&gt; </div> <div> but then I discovered Lorem ipsum dolor reading, and it goes like sit amet, consectetur adipisicing elit. Sunt ea repellat ratione a quasi earum placeat delectus, sed nihil ut praesentium. Facere nesciunt nobis voluptatum sed placeat quo fugiat debitis? </div> |  |          |
| Itai   | Wassap Vue? - This is a great app!                                       | 12:11 AM |

+ Compose

Inbox

Starred

Sent Mail

Drafts

33%

New Message


To:

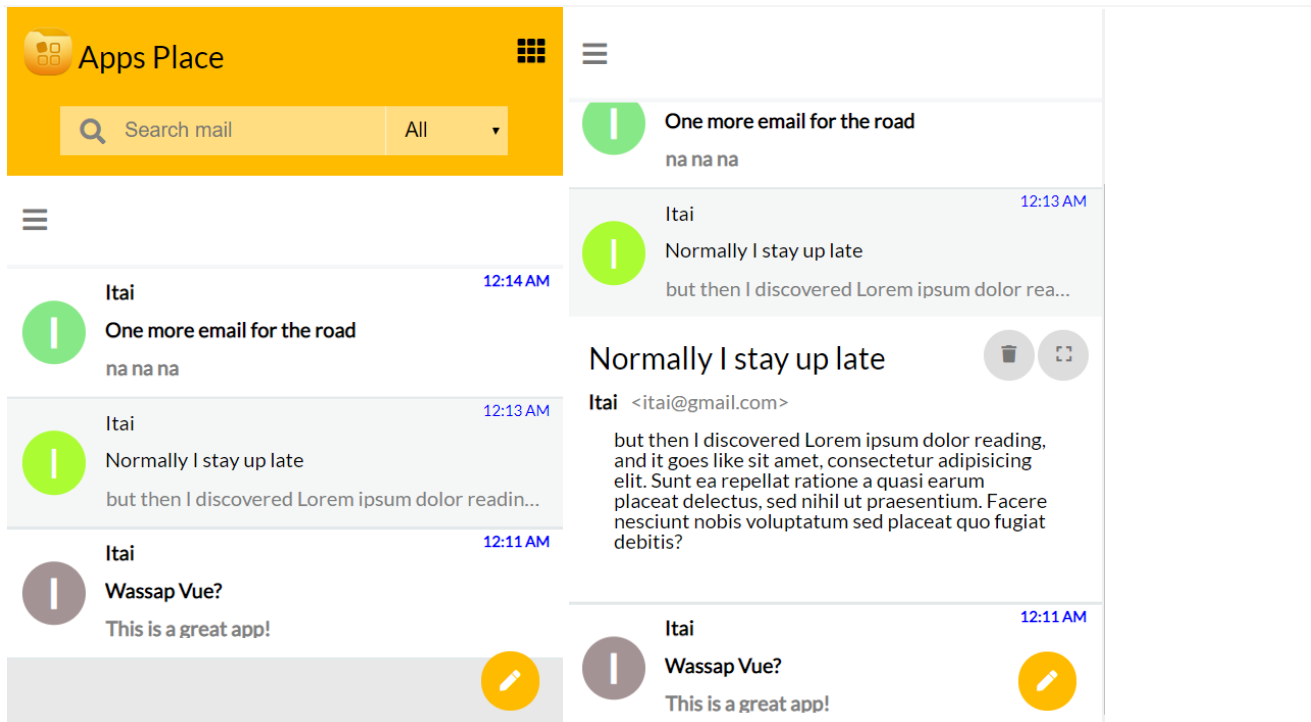
Cc:

Bcc:

Subject

Send





## Functional Design

### emailService

- Model - start with a basic model of emails:

```
const email = {
  id: 'e101',
  subject: 'Miss you!',
  body: 'Would love to catch up sometimes',
  isRead: false,
  sentAt : 1551133930594,
  to: 'momo@momo.com'
}
```

Also, in your email service have a basic user:

```
const loggedInUser = {
  email: 'user@appsus.com',
  fullname: 'Mahatma Appsus'
}
```

Note: this user is hard coded and there is no need to build a login system.

In the **inbox** show all the emails that were sent to the current user, the other emails are **sent** emails and should be displayed at the *sent* folder

The emailService query function should get a criteria object, here is an idea:

```
const criteria = {
  status: 'inbox/sent/trash/draft',
  txt: 'puki', // no need to support complex text search
  isRead: true, // (optional property, if missing: show all)
  isStared: true, // (optional property, if missing: show all)
  labels: ['important', 'romantic'] // has any of the labels
}
```

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### <email-app>

- Gets the right **emails** from service (async)
- Renders the list and the filters (both top filter with search, and side filter for different *folders*)

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### <email-list>

- Renders a list of **<email-preview>** pass down an email prop

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### <email-preview>

- Present an email preview
- Renders the subject (with text size limit)
- Gives visual indication for read/unread
- Support hover state

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### <email-details>

- Routable component (page)
- show the entire email
- Allow deleting an email (using the service)
- Allow navigating back to list

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### <email-filter>

- Allow filtering
- Start with Search and Read / Unread

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### <email-folder-list>

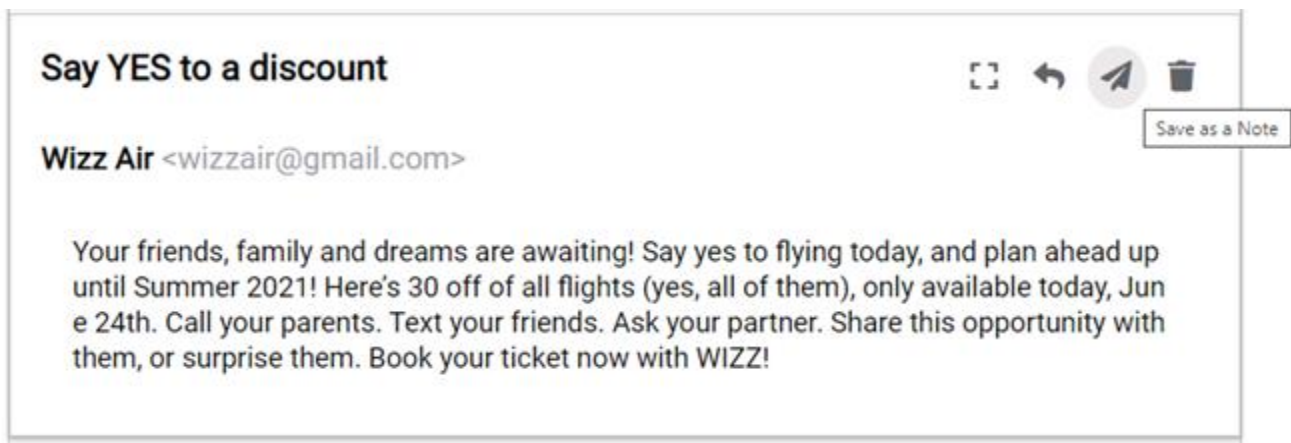
- Allow filtering by different folders: inbox / sent / trash/ draft

### <email-compose>

- Has a form with: to, subject and body
- Use the service to send an email (add email to the list)

### Integration

- Allow keeping an email as a note in missKeep - (use queryString Params)



### Some more UX Ideas

#### Hover states

|                  |                             |  |     |
|------------------|-----------------------------|--|-----|
| ★ Google         | Security alert              | - Your Google Account was just signed in to from a n...        | ✉ 🗑 |
| ★ Coding Academy | Wow your app is so amazing! | - WOWWWWWW! This is such an amazing app, Nadav and E... Jun 12 |     |



## Email list



Compose



Inbox

2



Starred



Sent



Drafts



Trash



TED

Eyal, here's why you should watch this talk...

Apr 06



Shoes

Say YES to a discount

Jun 25



eBay

Eyal, new discounts!

Jun 25



Wizz Air

Say YES to a discount

Jun 24



Udacity

Use AWS ElastiCache for data storage

Jun 24



Netflix

Eyal, The Politician Season 2 is now on Netflix

Jun 24

**Eyal, The Politician Season 2 is now on Netflix**



**Netflix** <netflix@netflix.net>

This message was mailed to [eyalskl18@gmail.com] by Netflix as part of your Netflix membership. SRC: 12182\_en\_IL



Google

Security alert

Jun 13



Coding Academy Wow your app is so amazing!

Jun 12