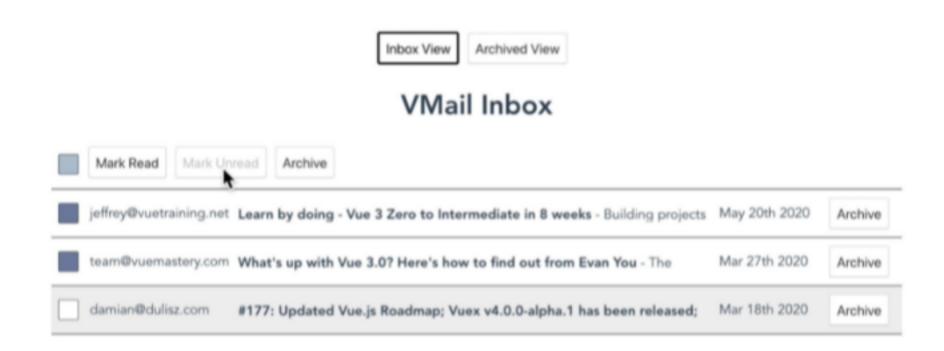
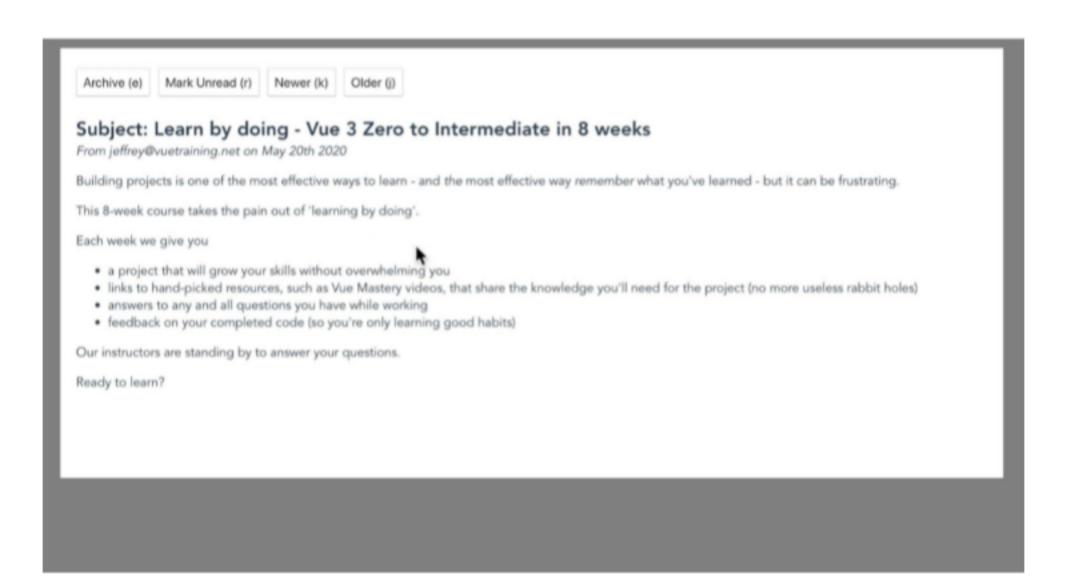
Tour the Project

In this course, we're going to build a Gmail clone using Vue 3.

We'll learn lots of new Vue 3 concepts, including the Composition API, the Reactivity System, and the Suspense Component. We'll show composables being used side-by-side with the Options API, and talk about the tradeoffs of using each.

By the end of the course, we'll have built an email inbox where we can check our email, mark it as read or archived, navigate using keyboard shortcuts, and perform bulk actions.





If you want to follow along, download the starter code from https://github.com/Code-Pop/build-gmail-clone-with-vue-3. You'll want to use the video-2-start branch.

Building the Inbox

For the starting code for this lesson, switch to branch: https://github.com/Code-Pop/build-gmail-clone-with-vue-3/tree/video-2-start

What we'll be doing This lesson builds up the basic display of the inbox screen, re-introducing

concepts from Vue 2 and showing that the Options API still works in a Vue 3 app. We'll display emails as a table, mark emails as read when they're clicked, display

dates properly, sort and filter the emails, and add an archive button. If you want to code along, you can download the starter code from https://github.com/Code-Pop/build-gmail-clone-with-vue-3 and use the video-

2-start branch. The finished code is in the video-2-end branch. This code includes some CSS, data, and packages that aren't included with the standard VueCLI output. **Updating VSCode's Vetur for Vue 3**

ESLint error. To fix this, go to Code > Preferences > Settings, search for ESLint, and uncheck

In Vue 3 we can have multiple root tags. However, currently this shows up as an

"Validate vue-html in <template> using eslint-plugin-vue".

Creating the Email Table We'll loop through the emails and put them in a table.

We'll show a checkbox, a 'from' field, a field that contains the subject and the

We'll be using hard-coded data for the emails for now.

first part of the email body, and then a date.

<div id="app">

<h1>VMail Inbox</h1>

:key="email.id" class="clickable"> <input type="checkbox" />

```
{td>{{email.from}}
      <strong>{{email.subject}}</strong> - {{email.body}}
      {{email.sentAt)}}
    </div>
export default {
 name: 'App',
 data(){
  return {
    emails: [
       "id": 1,
       "from": "team@vuemastery.com",
```

```
"subject": "What's up with Vue 3.0? Here's how to find out from
Evan You",
           "body": "The opening keynote of VueConf US this year was Evan You
(the creator of Vue), giving his State of the Vuenion address. He walked us
through the journey of getting Vue 3 from a prototype to a reality the past
year. He also dove into Vue's overall growth in the community.",
           "sentAt": "2020-03-27T18:25:43.511Z",
           "archived": false,
           "read": true
           "id": 2,
           "from": "jeffrey@vuescreencasts.com",
           "subject": "Five new VueJS videos this week + new podcast episode",
           "body": "I hope you've been enjoying the Vue 3 course I've been
releasing with Vue Mastery!\n\nThis week on VueScreencasts.com we have a
follow-up video that digs further into what we covered in this week's Vue
Mastery lesson, I answer a question that five of you asked about last week's
most popular video, and we start a new series with a very awesome library
author.\n\nFinally, for your ears only: a new episode of Exploring the
Vueniverse.",
           "sentAt": "2020-05-03T18:25:43.511Z",
           "archived": false,
           "read": false
           "id": 3,
           "from": "damian@dulisz.com",
           "subject": "#177: Updated Vue.js Roadmap; Vuex v4.0.0-alpha.1 has
been released; Kia King Ishii join the core team; Nuxt v2.12 released; Videos
from Vue.js Amsterdam 2020 are here!",
           "body": "First of all, lets congratulate Kia King Ishii on joining
the Vue.js core team! 🎉 He has been doing an incredible job building vuex-
orm and will now focus on working on the next versions of Vuex.\n\nSpeaking
of which - Vuex v4.0.0-alpha.1 has just been released! This is the version of
Vuex that will work with Vue 3.0 but keep the familiar API you know from the
current version.",
           "sentAt": "2020-03-18T18:25:43.511Z",
           "archived": false,
           "read": false
           "id": 4,
           "from": "anthony@vuejsdevelopers.com",
           "subject": "'Vue 3 Release Roadmap' + 6 more must-read articles
from this week",
           "body": "Newsletter Issue #161",
           "sentAt": "2020-03-24T18:25:43.511Z",
           "archived": true,
           "read": false
  },
                                  VMail Inbox
                                                                       2020-03-
    team@vuemastery.com
                       What's up with Vue 3.0? Here's how to find out from Evan You - The opening
                                                                       27T18:25:43.511Z
                                                                       2020-05-
    jeffrey@vuetraining.net
                       Learn by doing - Vue 3 Zero to Intermediate in 8 weeks - Building projects is
                                                                       20T18:25:43.511Z
                                                                       2020-03-
    damian@dulisz.com
                       #177: Updated Vue.js Roadmap; Vuex v4.0.0-alpha.1 has been released; Kia
                                                                       18T18:25:43.511Z
                                                                       2020-03-
    anthony@vuejsdevelopers.com 'Vue 3 Release Roadmap' + 6 more must-read articles from this week -
                                                                       24T18:25:43.511Z
```

:class="[email.read ? 'read': '', 'clickable']" @click="email.read = true">

Formatting dates

import { format } from 'date-fns';

let emails = [...]

like a lightweight moment.js.

export default {

name: 'App',

data(){

}

:key="email.id"

Let's add some old standby Vue 2 techniques.

events

return { format, emails }

Then we'll use the date-fns library to make the date display better. Date-fns is

Adding dynamic classes and click

We'll add dynamic elements to the classes, using a dynamic class array and a

click event. Read emails will display with a grey background.

```
{{format(new Date(email.sentAt), 'MMM do yyyy')}}
Sorting and filtering
```

We'll want it so that the most recently received emails are shown first. We'll also

return e1.sentAt < e2.sentAt ? 1 : -1 })

@click="email.read = true">

return this.emails.sort((e1, e2) => {

want archived emails to not display.

computed: {

unarchivedEmails(){

sortedEmails(){

```
:key="email.id"
  :class="[email.read ? 'read': '', 'clickable']"
```

Then we'll sort and filter our data using computed properties.

return this.sortedEmails.filter(e => !e.archived)

Finally, we'll add an archive button, so we can remove emails from our inbox.

Archive Button

```
Vue 2... but in the upcoming lessons we're going to take advantage of new Vue 3
features to make our app even better.
```

<button @click="email.archived = true">Archive</button> Conclusion

So we've built a nice basic Vue 3 app using just the techniques we know from

```
VMail Inbox
```

jeffrey@vuetraining.net	Learn by doing - Vue 3 Zero to Intermediate in 8 weeks - Building projects	May 20th 2020	Archive
team@vuemastery.com	What's up with Vue 3.0? Here's how to find out from Evan You - The	Mar 27th 2020	Archive
damian@dulisz.com	#177: Updated Vue.js Roadmap; Vuex v4.0.0-alpha.1 has been released;	Mar 18th 2020	Archive

For the ending code for this lesson, switch to branch: https://github.com/Code-Pop/build-gmail-clone-with-vue-3/tree/video-2-end