UI Development with Vue.js and Vuetify

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PLURALSIGHT AUTHOR

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Core UI Development

Vue.js

The “progressive framework” for building user interfaces

Vuetify

Material Design UI framework for Vue.js with a lot of ready to use components

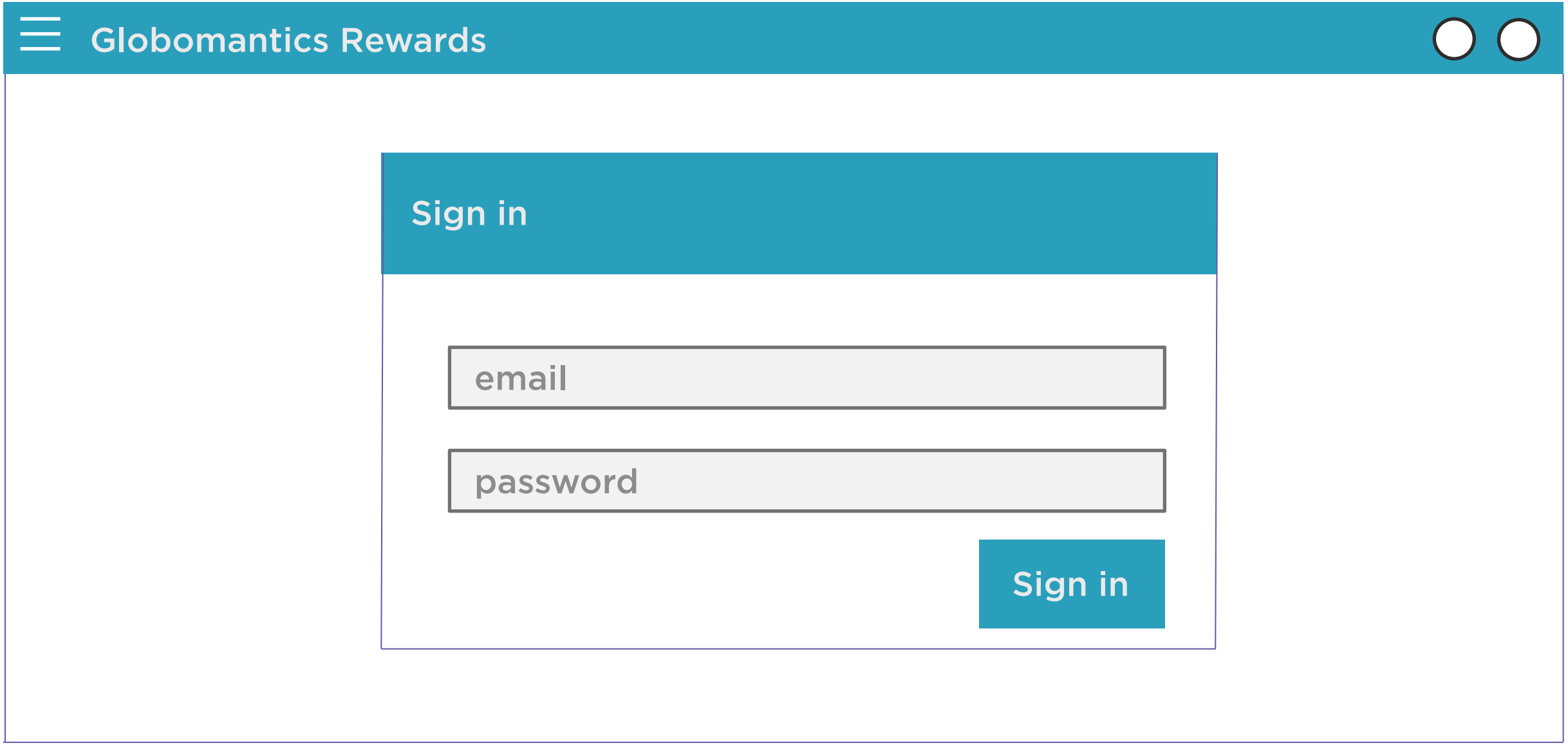
Busy Module!

A lot of UI work ahead

Short amount of time

Buckle up!

Mockup and Business Requirements Review


Globomantics Rewards
Sign in
email
password
Sign in

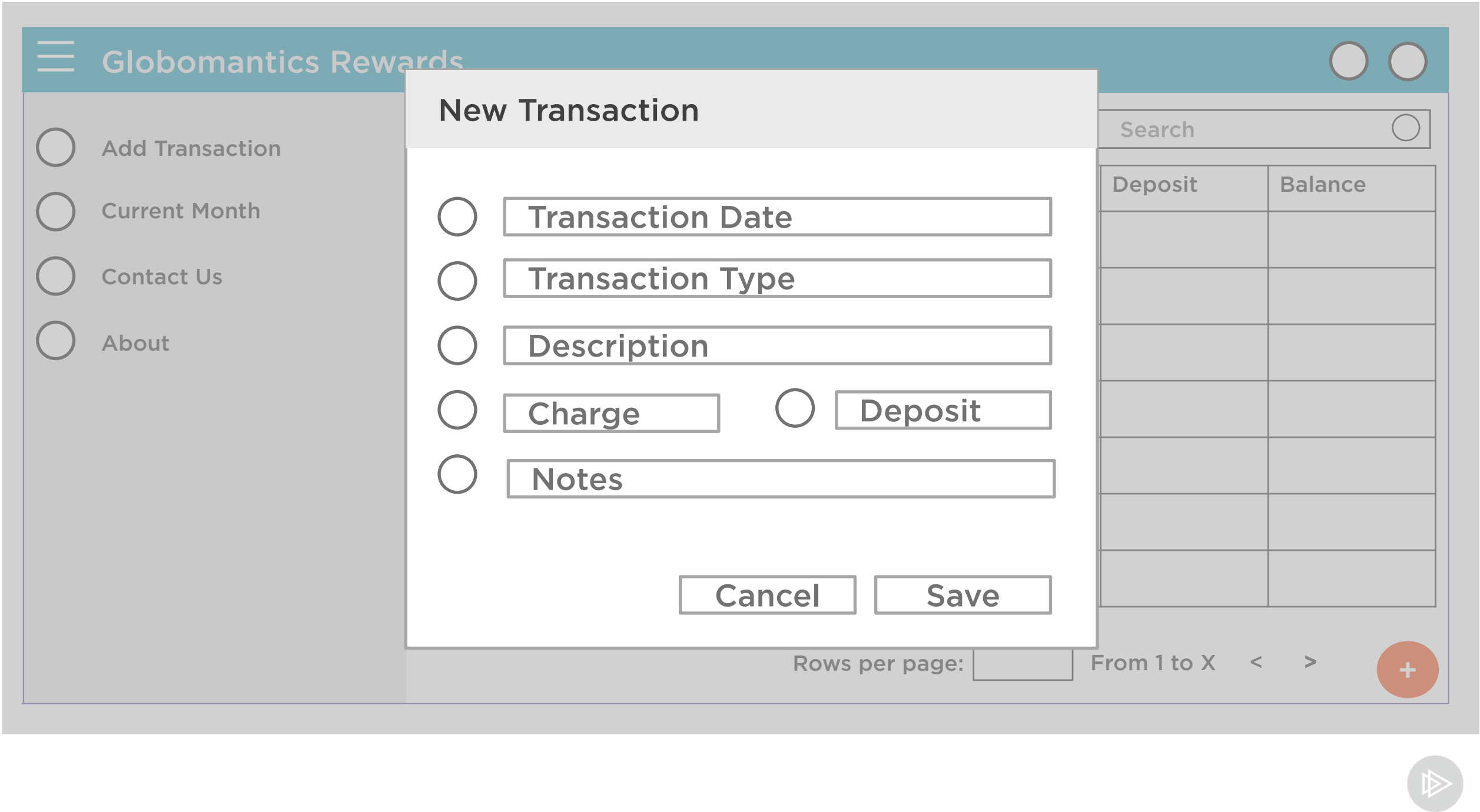
Globomantics Rewards

- Add Transaction
- Current Month
- Contact Us
- About

Transaction for [Month – Year] < Previous Next > Search

Date	Type	Description	Payment	Deposit	Balance

Rows per page: From 1 to X < > +


Globomantics Rewards
Add Transaction
Current Month
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About
New Transaction
Transaction Date
Transaction Type
Description
Charge
Deposit
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Cancel
Save
Search
Deposit
Balance
Rows per page:
From 1 to X
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Globomantics Rewards

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Transaction for [Month – Year] < Previous Next > Search

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Getting Our Development Environment Setup






EXTENSIONS

Search Extensions in Marketplace

INSTALLED 3

Beautify 1.3.0
Beautify code in place for VS Code
HookyQR

GitLens — Git supercharged 8.0.2
Supercharge the Git capabilities built i...
Eric Amodio

Vetur 0.11.7
Vue tooling for VS Code
Pine Wu

RECOMMENDED 6

jshint 0.10.16
Integrates JSHint into VS Code. JSHint...
Dirk Baeumer Install

ESLint 1.4.6
Integrates ESLint into VS Code.
Dirk Baeumer Install

npm Intellisense 1.3.0
Visual Studio Code plugin that autoco...
Christian Kohler Install

npm 0.3.3
npm support for VS Code
egamma Install

TSLint 1.0.28
TSLint for Visual Studio Code
egamma Install

Debugger for Chrome 4.1.0
Debug your JavaScript code in the Chr...
Microsoft Install

Welcome | package.json | transaction.js | user.js ...\models | user.js ...\routes | Welcome to GitLens | *Extension: Vetur*

Vetur

octref.vetur

Pine Wu | 2,091,329 | ★★★★★ | Repository | License

Vue tooling for VS Code

Disable▾ Uninstall

This extension is recommended based on the files you recently opened.

Details Contributions Changelog Dependencies

Vetur

VS Marketplace v0.11.7 | installs 2.09M | rating 5/5 (56)

Vue tooling for VS Code, powered by vue-language-server.

Doc: https://vuejs.github.io/vetur

Try it out with Veturpack!

🎉 VueConf 2017 Slide & Video 🎉

Features

- Syntax-highlighting
- Snippet
- Emmet
- Linting / Error Checking
- Formatting
- Auto Completion
- Debugging

Quick Start

- Install Vetur

Extension: GitLens — Git supercharged - vue-play - Visual Studio Code [Administrator]

File Edit Selection View Go Debug Tasks Help

EXTENSIONS

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Debugger for Chrome 4.2.2
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Visual Studio Team Services 1.122.0
Connect to Team Services including Te...
Microsoft Install

Extension: GitLens — Git supercharged

GitLens — Git supercharged

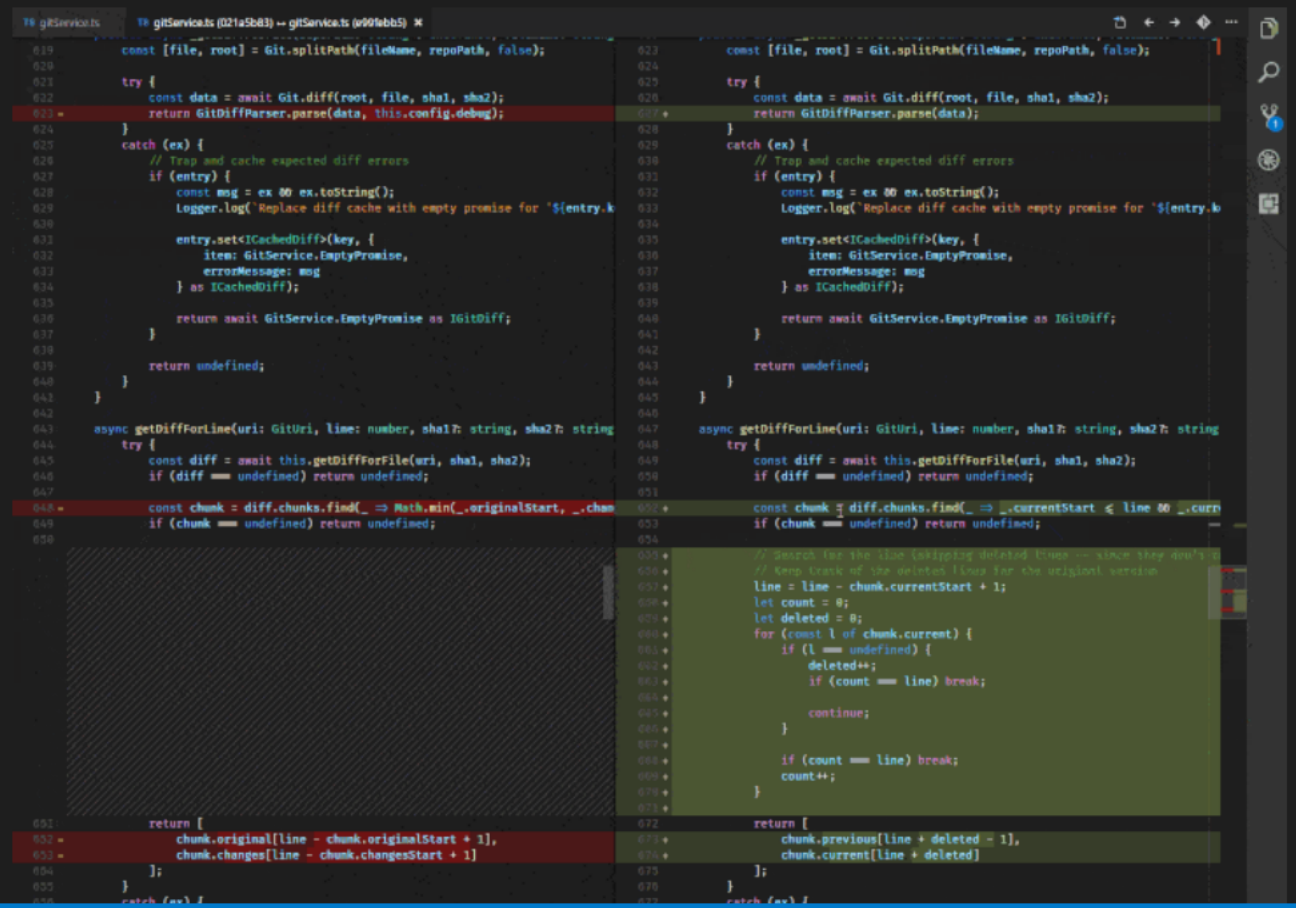
eamodio.gitlens

Eric Amodio | 3,774,508 | ★★★★★ | Repository | License

Supercharge the Git capabilities built into Visual Studio Code — Visualize code authorship at a glance via Git blame annotations and code lens, seamlessly n..

Disable▾ Uninstall

Details Contributions Changelog Dependencies



master 0 0

Stubbing in the Vue Files

Vue Files We'll Need

Login – no registration page needed

Transactions – list of transactions for the current month

Edit Transaction – add new and edit existing transactions

About – as time allows – not critical for "MVP"

Reminder: We're using Webpack

Add Vue.js directly to .html file(s)

Single File Components

Can include other Components

Structure of a Component

- Template
- Script
- Style

Webpack bundles this together for us!

Demo

main.js

App.vue

Components

- Home.vue
- Transactions.vue
- EditTransaction.vue
- Login.vue
- About.vue
- Etc.

Build with Webpack

Review output

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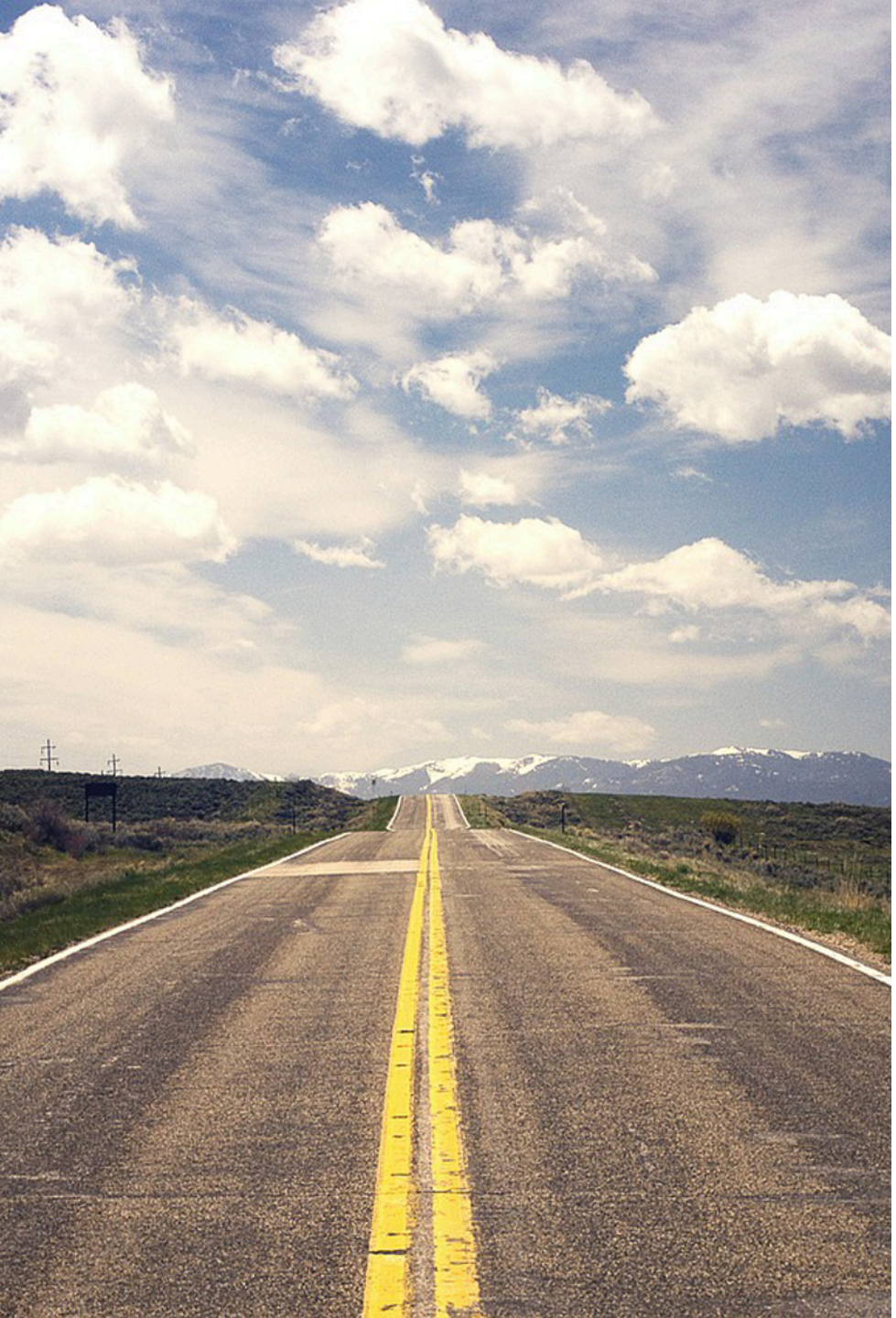
Setting Up Routing



Setup Routes

- Home (default route)
- Login
- About

Transactions

- Child component in Home.vue
- Route not needed

Edit Transaction

- Route not needed
- We'll use modal for this

Demo

"router" folder already added by vue-cli

One route file

- index.js

Official router package: vue-router

Setup routes

Default "fallback" route

Time to develop some routes!

Blank Slide

Demo

Baseline setup done

Basic architectural structure in place

- Single-file Vue components
- Routes

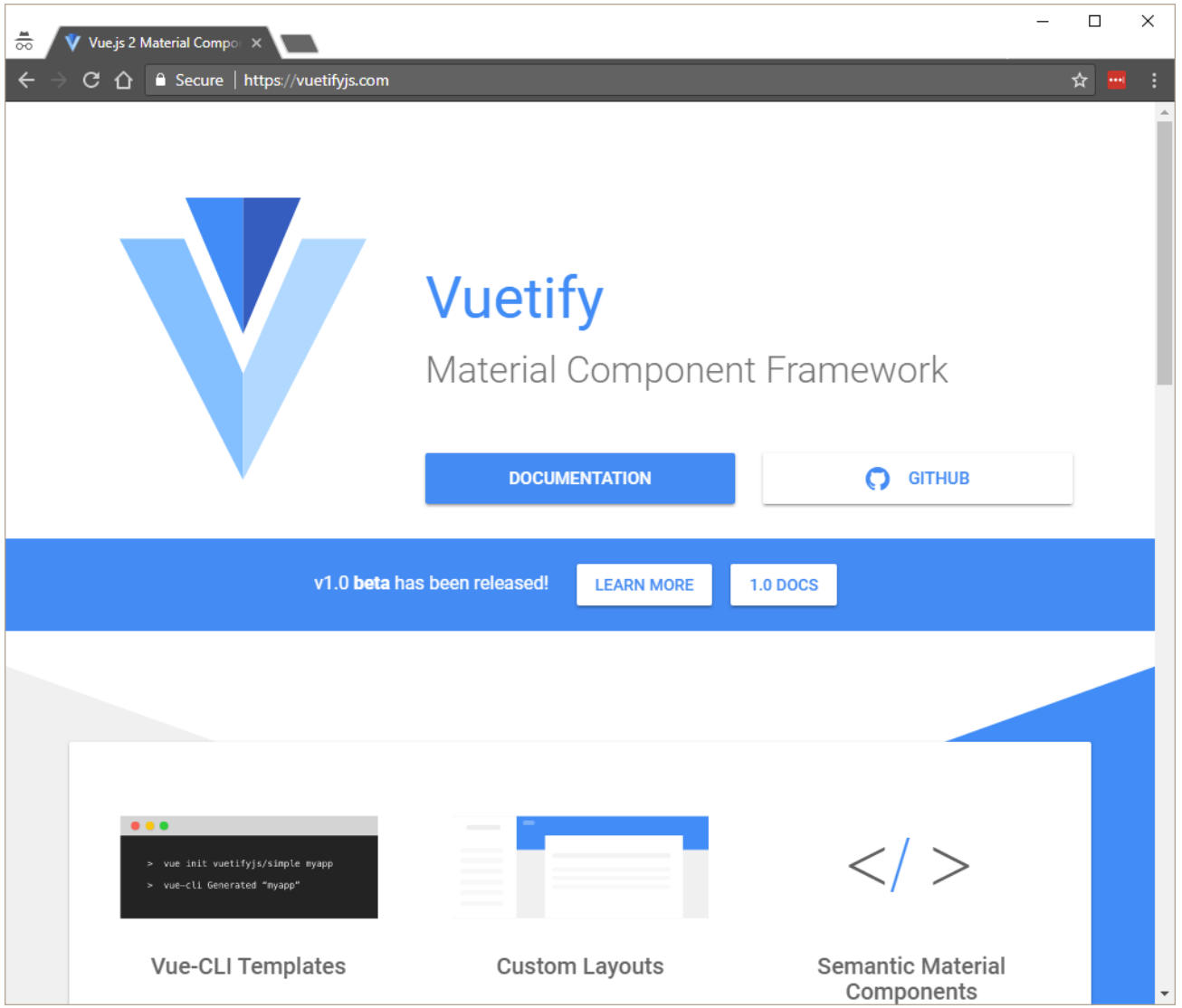
Time to build and test run the app

- Verify routes
- Test nested components in Home.vue

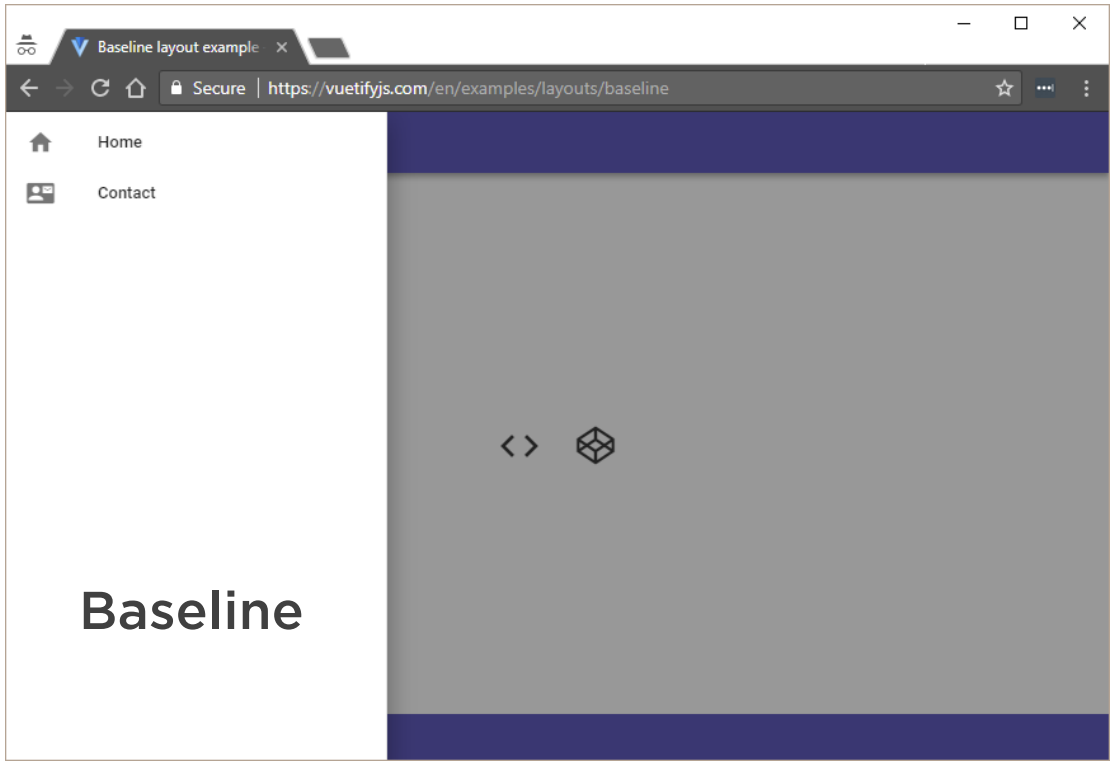
Selecting a Vuetify Layout

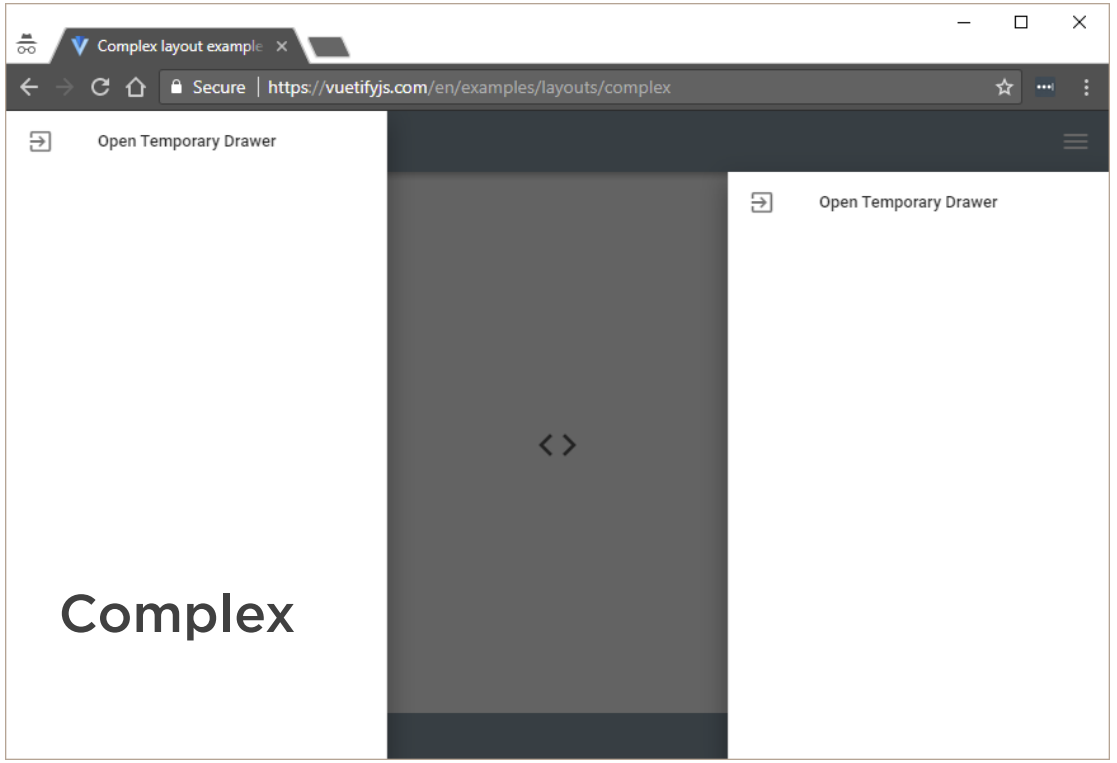
Vuetify

vuetifyjs.com



Vuetify Pre-Defined Layouts





Demo

Preview pre-defined layouts

Select a layout for our project

Blank Slide

Bump into Chrome here to show vuetify website

Demo

Add Vuetify

Add selected layout

- Do a test run
- Fix any issues
- Import Vuetify styles
- Import material design icons

Blank Slide

Bump into Visual Studio Code here...

Vuetify Components Review

We've already built components

Component are like building blocks

Examples

- Buttons
- Dialogs
- Data tables
- Forms

Vuetify includes a large number of UI components

Blank Slide

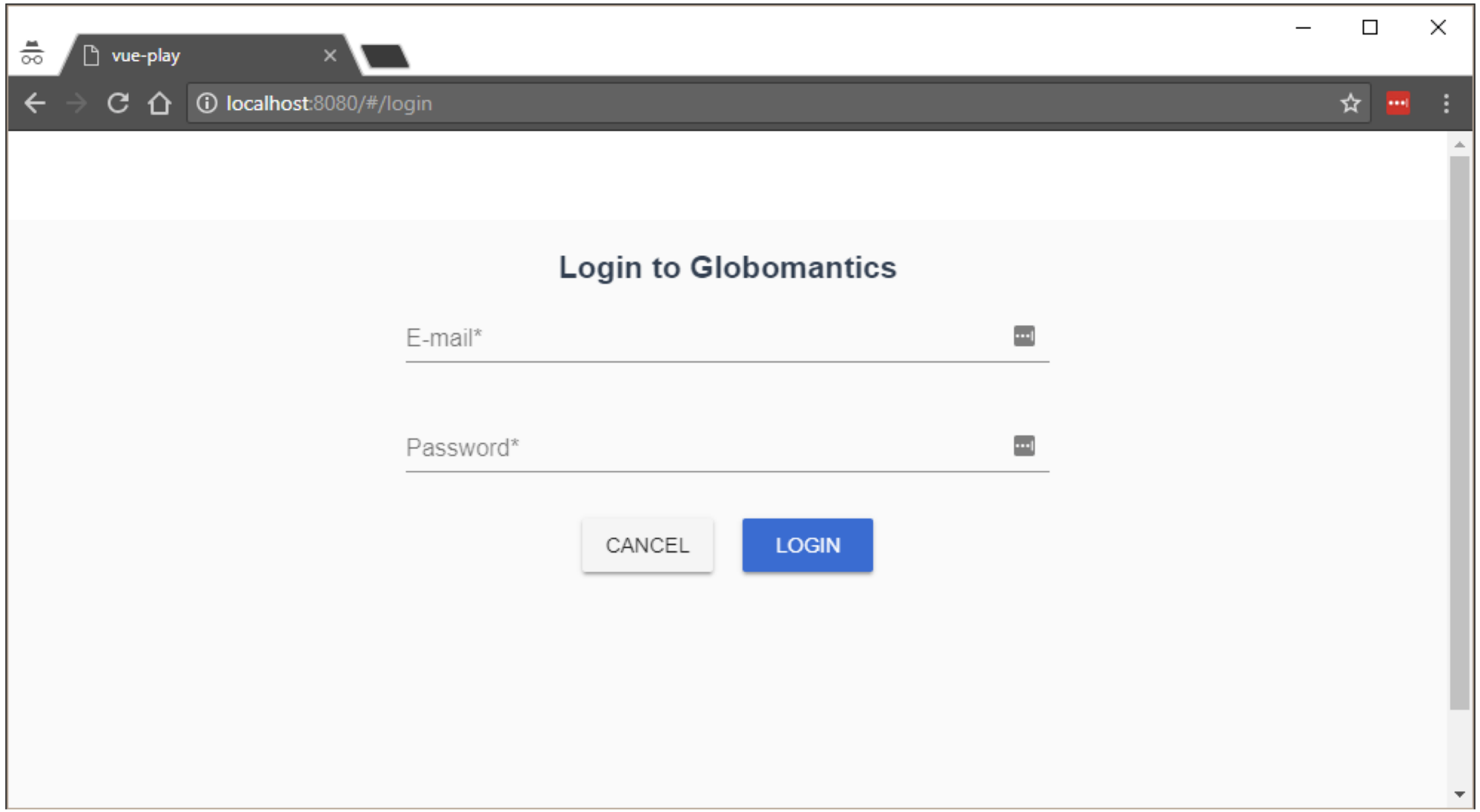
Bump into Chrome here to show vuetify website

Using Vuetify Components

Components We Need

- Button
- Data Tables
- Dialogs
- Forms
- Icons
- Pickers
- Snackbars

Login


vue-play
localhost:8080/#/login
Login to Globomantics
E-mail*
Password*
CANCEL
LOGIN

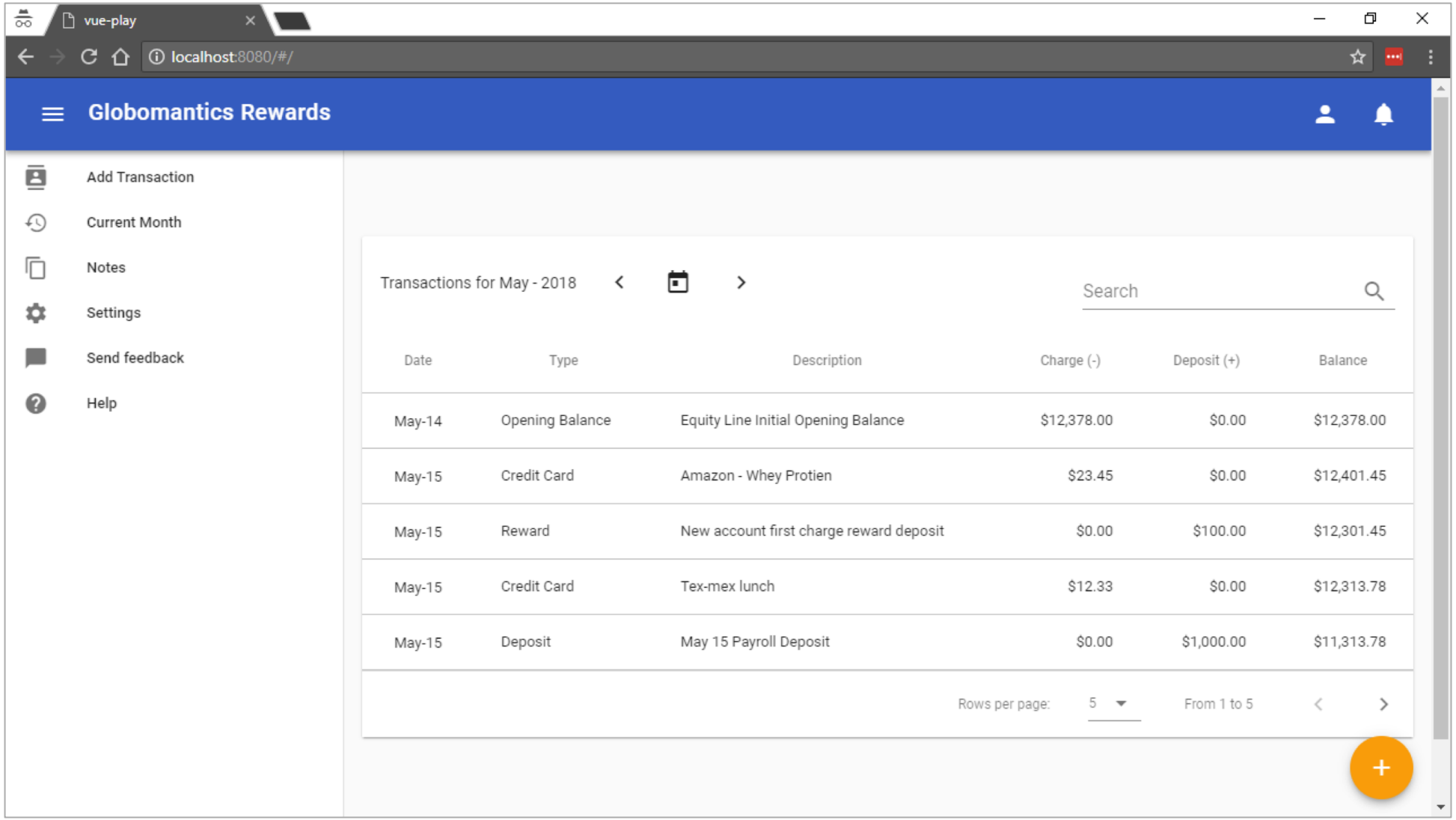
Demo

Using Vuetify Components

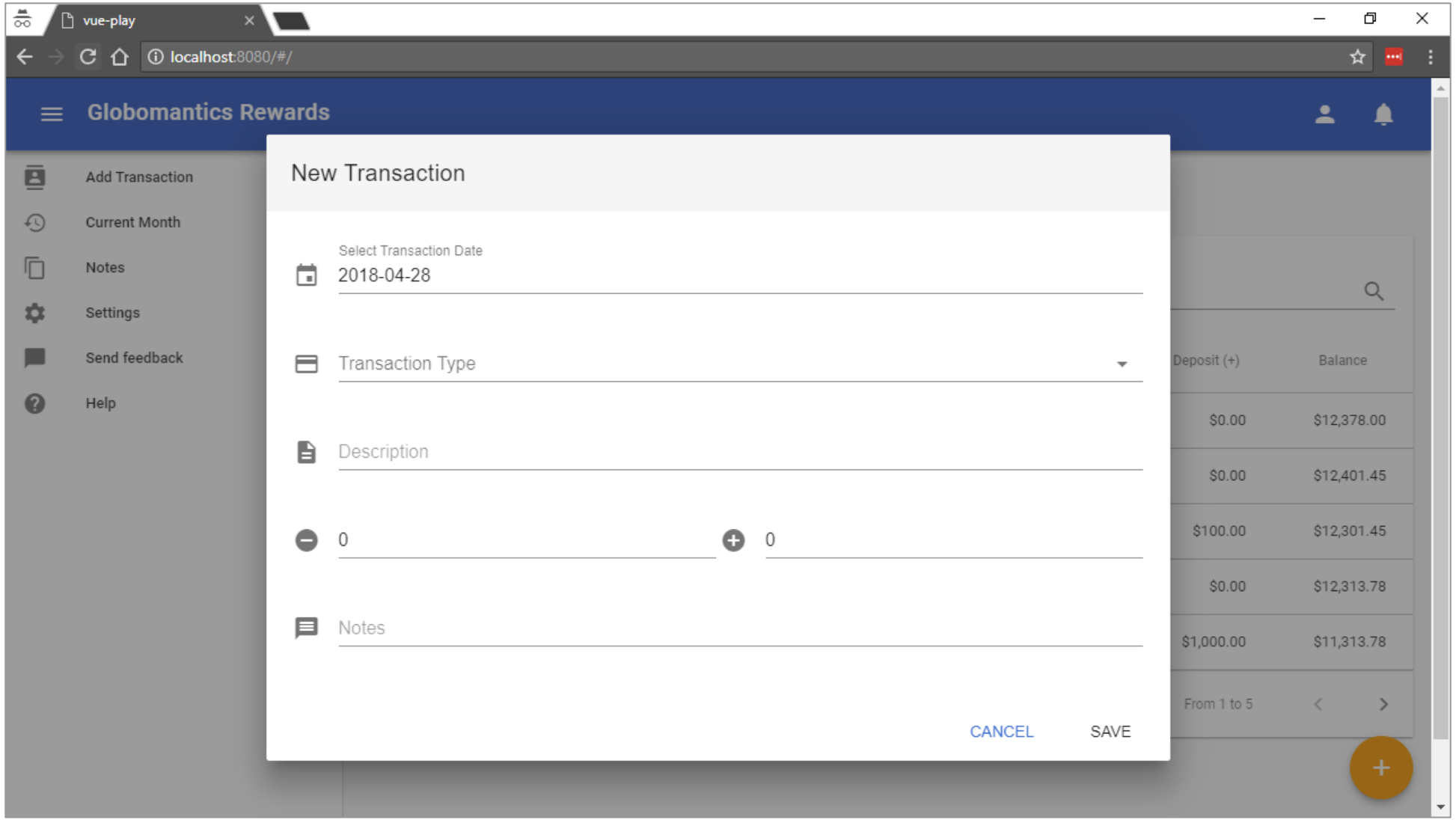
“Vuetiful”

Review Vuetified Components

Home and Transactions



EditTransaction



Demo

Review Vuetified Components

- Home
- Transactions
- EditTransaction

Next Steps

Vuetify has been setup

Built the login component

Reviewed other key components

However...

- Component state is local currently
- Global application state is needed