CREATE AN ENGAGING MOBILE APP WITH NATIVESCRIPT AND VUE.JS
CALLING ALL VIXENS!

http://www.vuevixens.org
$WHOAMI

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LET’S TALK ABOUT NATIVESCRIPT
WHAT IS NATIVESCRIPT?

A framework for building native cross-platform mobile apps

No-compromise, smoothly-animating native mobile apps for iOS and Android
You know JavaScript? You know NativeScript!

Use JavaScript, CSS, XML to construct the app
NATIVESCRIPT IS...

Use no framework, Angular, or Vue.js!

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WHY VUE?
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Vue offers a great way for web developers to embrace mobile platforms via NativeScript or Weex.

Vue is lightweight so highly appropriate for mobile.

NativeScript and Vue have great code-sharing potential!
HOW DOES NATIVESCRIPT WORK WITH VUE?
3 BASIC DIFFERENCES

use of nativescript-vue

Vue.js ← NativeScript-Vue → NativeScript

<web>

import Vue from 'vue';

{NativeScript}

import Vue from 'nativescript-vue';
3 BASIC DIFFERENCES

bootstrapping the app

<web>

```javascript
new Vue({
  el: '#app',
  store: store,
  router,
  render: h => h(App),
});
```

{NativeScript}

```javascript
new Vue({
  store: store,
  router,
  render: h => h(App),
});
```
3 BASIC DIFFERENCES

templates

<web>

<template>
  <v-card color="tile" tile class="pa-4">
    <h1>Student Home</h1>
    <p align="left">Here, you'll find a list of grades per student.</p>
  </v-card>
</template>

{NativeScript}

<template>
  <StackLayout ref="initialContainer" class="initial-container">
    <Label text="Elocute" class="initial-label" />
    <StackLayout @tap="welcome" class="initial-button">
      <Label text="Welcome" class="initial-button-label" />
    </StackLayout>
  </StackLayout>
</template>
MY FIRST NATIVESCRIPT-VUE APP
TRY!
PLAY.NATIVESCRIPT.ORG

Download the NativeScript playground app

(you’ll also be prompted to download the NativeScript Preview app)
TRY THE CLI

https://github.com/nativescript-vue/vue-cli-template

vue init nativescript-vue/vue-cli-template#next <project-name>
cd <project-name>

# Install dependencies
npm install

# Build!
tns run ios/android --bundle
LET'S BUILD SOMETHING!
PRESENTING ELOCUTE
FINALLY! THE LANGUAGE LAB IS REPLACED!
LANGUAGE
TEACHERS:
Manage classrooms and assign texts for students to read aloud to perfect their accents
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BUILDING THE WEB
APP
ELOCUTE.ME
I USED:

- Vue CLI
- Vuetify
- Firebase UI for Authentication
- VUEX for state management
- Firebase backend
BUILDING THE MOBILE APP
I USED:

- NativeScript CLI
- Webpack template
- NativeScript-Vue Plugin
- VUEX for state management
- Firebase backend
import { mapState, mapGetters } from 'vue';

export default {
  computed: {
    ...mapState(['user', 'student', 'students', 'classrooms', 'activeClassroom', 'assignments', 'message', 'info']),
    ...mapGetters(['classroom', 'assignment']),
  },
  methods: {
    search() {
      this.$store.dispatch('findUser',
        {Email: this.studentEmail});
    },
    ...
  }
}
FIREBASE INTEGRATION

web

```javascript
fetchAssignments({ commit }, classId) {
  firebase
    .database()
    .ref('Assignments')
    .orderByChild('ClassId')
    .equalTo(classId)
    .once('value', function(data) {
      const obj = data.val();
      const assignments = Object.keys(obj || {}).map(key => ({
        id: key,
        Title: obj[key].Title,
        Text: obj[key].Text,
      }));
      commit('setAssignments', assignments);
    });
}
```

mobile

```javascript
fetchAssignments ({ commit }, id) {
  var onQueryEvent = function(result) {
    if (result.error) {
      console.log(result.error)
    } else {
      const obj = result.value;
      const assignments = Object.keys(obj || {}).map(key => ({
        id: key,
        Title: obj[key].Title,
        Text: obj[key].Text,
        Language: obj[key].Language
      }));
      commit('setAssignments', assignments);
    }
  }
  firebase.query(
    onQueryEvent,
    "/Assignments",
    {
      singleEvent: true,
      orderBy: {
        type: firebase.QueryOrderType.CHILD,
        value: 'ClassId'
      },
      range: {
        type: firebase.QueryRangeType.EQUAL_TO,
        value: id
      }
    })
    .catch(console.error);
}
```
body
  color: #131426
  background-color: #FFFFFF
h1, h2, h3, h4, h5, p, pre {
  font-family: 'Quicksand', sans-serif
  url(./assets/fonts/Quicksand-Regular.otf)
}
  h1 {
    font-size: 2.2em;
  }
  h2 {
    font-size: 1.85em;
    font-weight: normal
  }

@import '~/nativescript-theme-core/css/core.light.css';

Page {
  background-color: #8FD2C6;
  font-family: "Quicksand";
  font-size: 20;
  margin: 0;
  padding: 0;
}

Label {
  color: #131426;
}

.action-bar {
  background-color: #90D2C5;
  color: #131426;
  font-weight: bold;
  font-size: 20;
  font-family: "Quicksand";
  height: 30;
  padding-top: 10;
Perfect your spoken language skills with EloCute, a web site for teachers with a companion mobile app for their students.
INTO THE FUTURE!
REAL CODE SHARING
BUILD FOR IOS, ANDROID, AND WEB IN ONE REPO
FOLDER STRUCTURE

- build folders
- develop here
- separate SFCs
- shared service
- separate entry points
- separate css
- folders for webpack
<template>
  <Page class="Page">
    <ActionBar title="🐶🐶🐶🐶🐶🐶🐶🐶🐶" class="action-bar" />
    <ScrollView>
      <WrapLayout orientation="horizontal">
        <StackLayout v-for="dog in dogsList" :key="dog" class="card">
          <Image height="100%" width="48%" stretch="aspectFill" :src="dog" />
        </StackLayout>
      </WrapLayout>
    </ScrollView>
  </Page>
</template>

<script>
import service from "../shared/service.vue";

export default {
  mixins: [service],
  created() {
    this.loadDogs();
  }
};
</script>
<template>
  <v-container grid-list-md fluid>
    <v-layout wrap>
      <v-flex xs6 sm4 md2 v-for="(dog, index) in dogsList" :key="dog">
        <v-card>
          <v-card-media
            height="200px"
            :src="dog">
          </v-card-media>
          <v-card-actions>
            ...
          </v-card-actions>
        </v-card>
      </v-flex>
    </v-layout>
  </v-container>
</template>

<script>
import service from '..//shared/service.vue';

export default {
  mixins: [service],
  created() {
    this.loadDogs();
  },
};
</script>
This story is evolving! Follow along on Slack

https://github.com/tralves/ns-vue-codeshare-demo

https://github.com/jlooper/ns-vue-codeshare-demo
LEARN MORE AT NATIVESCRIPT-VUE.ORG

https://github.com/nativescript-vue/nativescript-vue
NativeScript Slack

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Thanks!
@jenlooper