

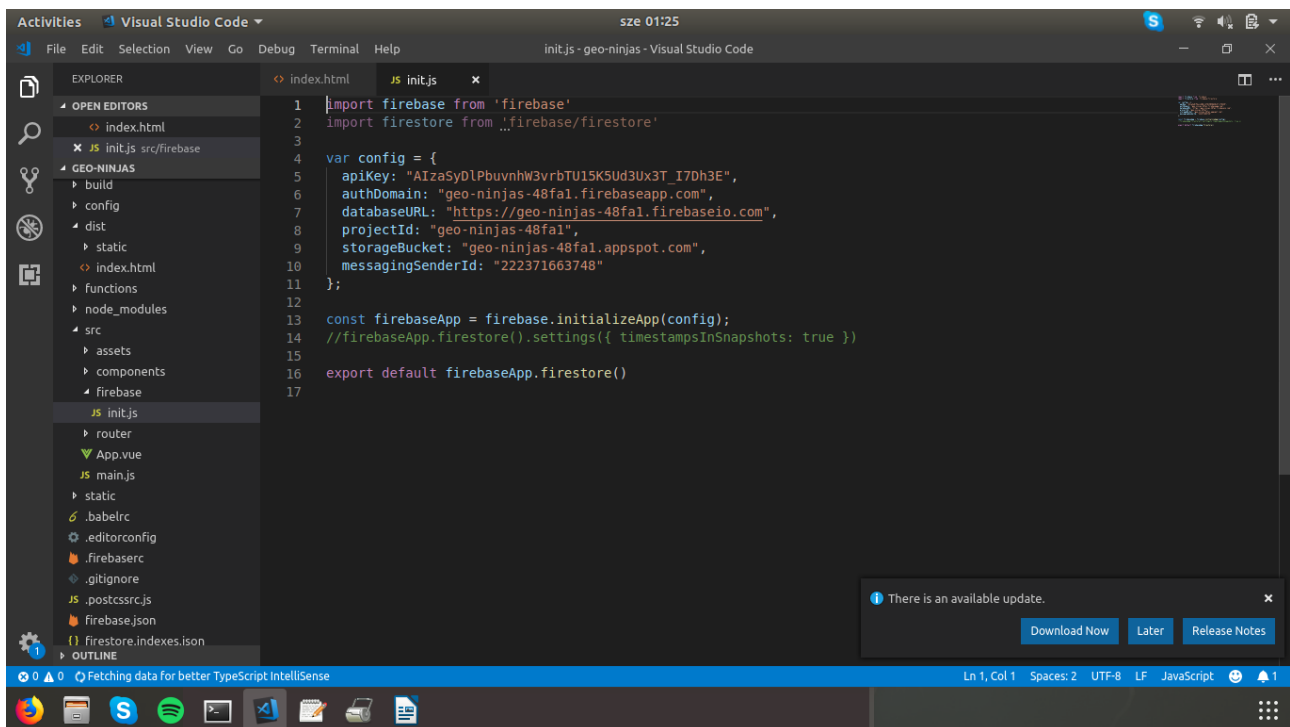
EFOP beadandó projekt

Kóbor Ervin, 2019. tavasz

A projekt egy vue js-ben megvalósított weboldalt mutat be firebase backenddel. A weboldalra lehetőség van regisztrálni, majd ezt követően bejelentkezni, majd egy google js api segítségével meghatározzuk a felhasználó földrajzi helyzetét. Ezután a földrajzi helyzetre kattintva egy jegyzetfalat tudunk létrehozni. A projekt neve geo-ninjas.

Kezdetnek kiadjuk a *vue init webpack geo-ninjas* parancsot.

A firebase weboldalon bejelentkezve a google fiókkal létrehoztam magát a projektet, Hungary locationnal.

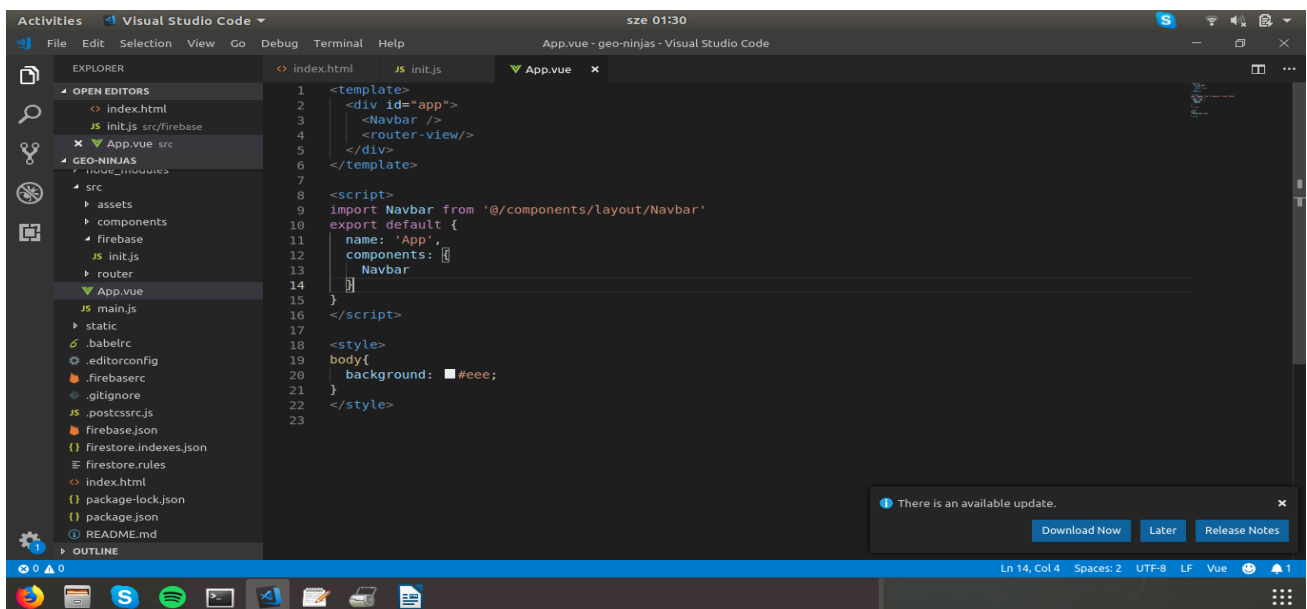


The screenshot shows the Visual Studio Code editor with the `init.js` file open. The file contains the following code:

```
1 import firebase from 'firebase'
2 import firestore from 'firebase/firestore'
3
4 var config = {
5   apiKey: "AIzaSyDLPbuvnhW3vrbTU15K5Ud3Ux3T_I7Dh3E",
6   authDomain: "geo-ninjas-48fal.firebaseio.com",
7   databaseURL: "https://geo-ninjas-48fal.firebaseio.com",
8   projectId: "geo-ninjas-48fal",
9   storageBucket: "geo-ninjas-48fal.appspot.com",
10  messagingSenderId: "222371663748"
11 };
12
13 const firebaseApp = firebase.initializeApp(config);
14 //firebaseApp.firestore().settings({ timestampsInSnapshots: true })
15
16 export default firebaseApp.firestore()
17
```

The Explorer sidebar on the left shows the project structure, including `index.html`, `init.js`, `App.vue`, and various configuration files. A status bar at the bottom indicates the file is in JavaScript mode.

Innen ki kell másolni a megfelelő konfigurációs beállításokat, és importálni kell a firebase-t a js fájlba. A stílusbeállításokat materializecss-sel végeztem el, s elkészítettem a navigációs bar stílusát leíró `App.vue` fájlt.

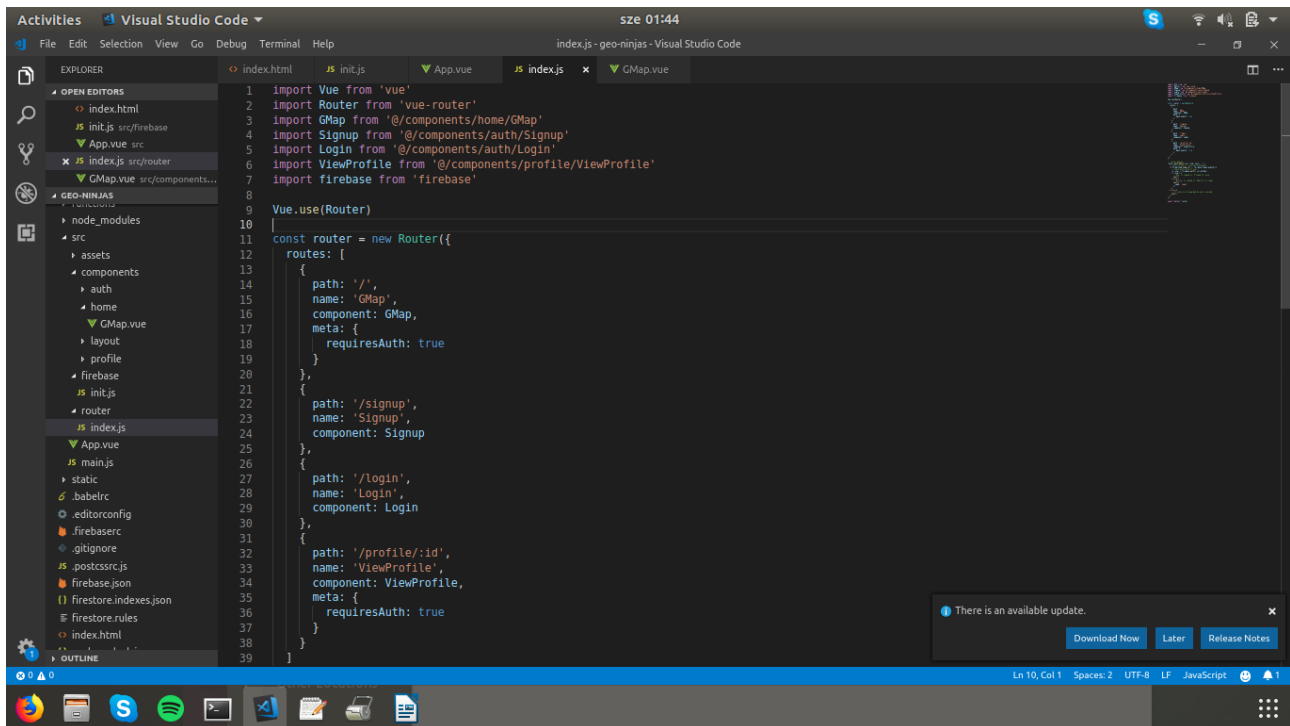


The screenshot shows the Visual Studio Code editor with the `App.vue` file open. The file contains the following code:

```
1 <template>
2   <div id="app">
3     <Navbar />
4     <router-view/>
5   </div>
6 </template>
7
8 <script>
9   import Navbar from '@components/layout/Navbar'
10  export default {
11    name: 'App',
12    components: {
13      Navbar
14    }
15  }
16 </script>
17
18 <style>
19   body{
20     background: #eee;
21   }
22 </style>
23
```

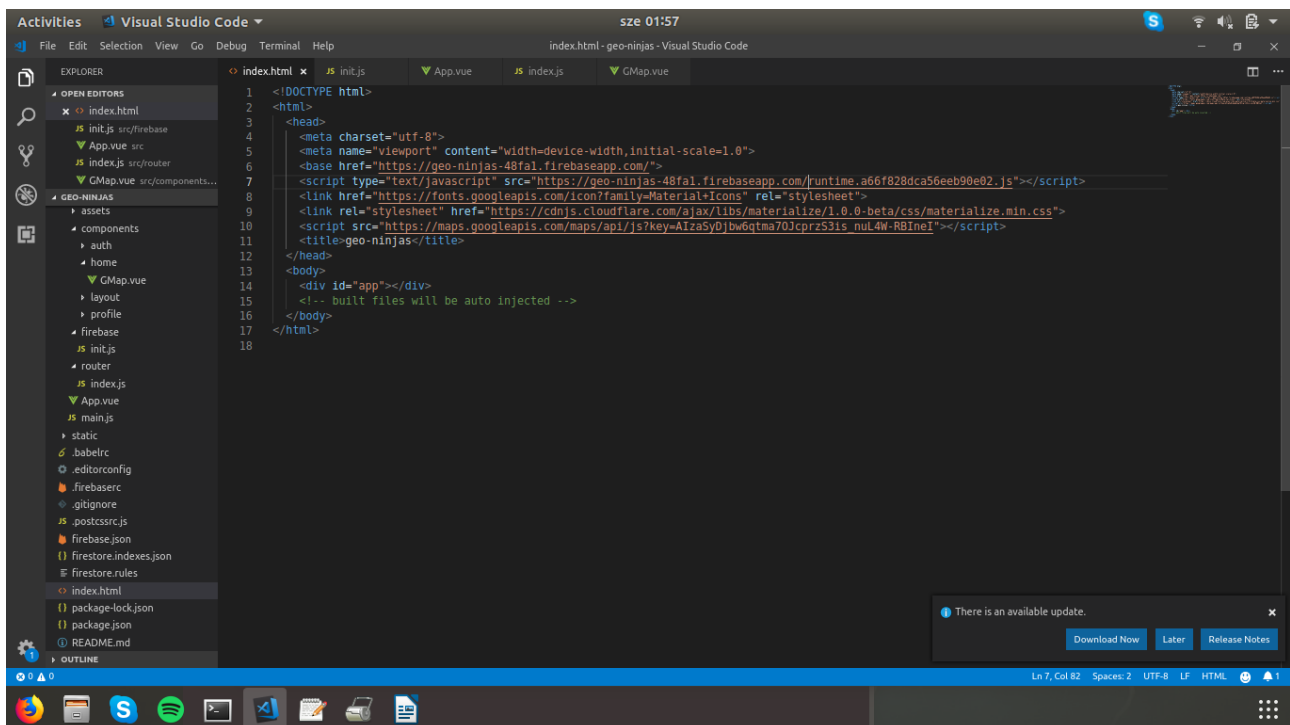
The Explorer sidebar on the left shows the project structure, including `index.html`, `init.js`, `App.vue`, and various configuration files. A status bar at the bottom indicates the file is in Vue mode.

Ezt követően definiáltam azt a felületet, amin a térkép fog elhelyezkedni, ide is beillesztjük a navbar többi részét szintén.



```
1 import Vue from 'vue'
2 import Router from 'vue-router'
3 import GMap from '@components/home/GMap'
4 import Signup from '@components/auth/Signup'
5 import Login from '@components/auth/Login'
6 import ViewProfile from '@components/profile/ViewProfile'
7 import firebase from 'firebase'
8
9 Vue.use(Router)
10
11 const router = new Router({
12   routes: [
13     {
14       path: '/',
15       name: 'GMap',
16       component: GMap,
17       meta: {
18         requiresAuth: true
19       }
20     },
21     {
22       path: '/signup',
23       name: 'Signup',
24       component: Signup
25     },
26     {
27       path: '/login',
28       name: 'Login',
29       component: Login
30     },
31     {
32       path: '/profile/:id',
33       name: 'ViewProfile',
34       component: ViewProfile,
35       meta: {
36         requiresAuth: true
37       }
38     }
39   ]
40 })
```

A firebase-szel létrehozott projektre a google APIs-en keresztül le kellett generáltatni egy saját *apiKEY*-t, majd a <https://cloud.google.com/maps-platform/> weboldalon található kódot beillesztjük az index.html-be, majd ebbe a js kódba behelyettesítjük az *apiKEY*-ünket.



```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width,initial-scale=1.0">
6     <base href="https://geo-ninjas-48fal.firebaseio.com/">
7     <script type="text/javascript" src="https://geo-ninjas-48fal.firebaseio.com/runtime/a66f828dca56eeb90e02.js"></script>
8     <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
9     <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0-beta/css/materialize.min.css">
10    <script src="https://maps.googleapis.com/maps/api/js?key=AIzaSyDjBw6qTma703cpr2S31s_nuL4W-RB1neI"></script>
11    <title>geo-ninjas</title>
12  </head>
13  <body>
14    <div id="app"></div>
15    <!-- built files will be auto injected -->
16  </body>
17 </html>
```

Létrehozzuk a bejelentkező és a regisztráló oldalt.

Activities Visual Studio Code s2e 02:00

Signup.vue - Visual Studio Code

EXPLORER

- index.html
- Signup.vue x
- init.js
- App.vue
- index.js
- GMap.vue

OPEN EDITORS

- index.html
- Signup.vue src/components...
- init.js src/firebase
- App.vue src
- index.js src/router
- GMap.vue src/components...

GEO-NINJAS

- index.html
- functions
- node_modules
- src
 - assets
 - components
 - auth
 - Login.vue
 - Signup.vue
 - home
 - GMap.vue
 - layout
 - profile
 - firebase
 - init.js
 - router
 - index.js
 - App.vue
 - main.js
 - static
 - babelrc
 - editorconfig
 - firebaseconfig
 - gitignore
 - postcssrc.js
 - firebase.json
 - firestore.indexes.json
 - firestore.rules
 - index.html
 - package-lock.json
 - package.json
 - README.md

OUTLINE

```

17 <p v-if="feedback" class="red-text center">{{ feedback }}</p>
18 <div class="field center">
19   <button class="btn deep-purple">Signup</button>
20 </div>
21 </form>
22 </div>
23 </template>
24
25 <script>
26 import db from '@firebase/init'
27 import slugify from 'slugify'
28 import firebase from 'firebase'
29
30 export default {
31   name: 'Signup',
32   data() {
33     return {
34       email: null,
35       password: null,
36       alias: null,
37       feedback: null,
38       slug: null
39     }
40   },
41   methods: {
42     signup() {
43       if (this.alias && this.email && this.password) {
44         this.feedback = null
45         this.slug = slugify(this.alias, {
46           replacement: '-',
47           remove: /[$*+~()'"!\-:@]/g,
48           lower: true
49         })
50         let ref = db.collection('users').doc(this.slug)
51         ref.get().then(doc => {
52           if (doc.exists) {
53             this.feedback = 'This alias already exists'
54           } else {
55             // this alias does not yet exist in the db
56             firebase.auth().createUserWithEmailAndPassword(this.email, this.password)
57               .then(user => {
58                 ref.set({
59                   alias: this.alias,
60                   geoLocation: null,
61                   user_id: user.uid
62                 })
63               })
64               .then(() => {
65                 this.$router.push({ name: 'GMap' })
66               })
67             }
68           }
69         })
70       }
71     }
72   }
73 }
74 
```

There is an available update.

Download Now Later Release Notes

Ln 92, Col 1 Spaces: 2 UTF-8 LF Vue

Visual Studio Code interface showing a Vue.js project. The Explorer sidebar on the left displays the file structure, including `index.html`, `Signup.vue`, `App.vue`, and `Login.vue`. The main editor window shows the code for `Login.vue`, which includes a form with email and password fields, a login button, and a feedback message. The code uses Vue 3 syntax with the `<script> setup </script>` block and the `<form>` and `<div>` elements. The bottom status bar shows "Ln 1, Col 1, Spaces: 2, UTF-8, LF, Vue".

Ezt követően lekódoltam, hogy a firebase-nek át tudjuk adni a felhasználó geo locationját.

```
50 // get current user
51 let user = firebase.auth().currentUser
52
53 //get current location
54 if(navigator.geolocation){
55   navigator.geolocation.getCurrentPosition(pos => {
56     this.lat = pos.coords.latitude
57     this.lng = pos.coords.longitude
58   })
59
60   // find the user record and then update geocoords
61   db.collection('users').where('user_id', '==', user.uid).get()
62   .then(snapshot => {
63     snapshot.forEach(doc => {
64       db.collection('users').doc(doc.id).update({
65         geolocation: {
66           lat: pos.coords.latitude,
67           lng: pos.coords.longitude
68         }
69       })
70     })
71   }).then(() => {
72     this.renderMap()
73   })
74 }, (err) => {
75   // timeout, centre by default values
76   this.renderMap()
77 }, { maximumAge: 60000, timeout: 3000 }) // cached location
78 } else {
79   // position centre by default values
80   this.renderMap()
81 }
82 }
83
84 </script>
85
86 <style>
87 .google-map {
88   width: 100%;
89   height: 100%;
90   margin: 0 auto;
91   background: #ffff;
92   position: absolute;
93   top: 0;
94   left: 0;
95   z-index: -1;
96 }
```

A geolokáció és a térkép megfelelő megvalósítása után megvalósítjuk a falat is, ahová a felhasználó írni tud, kvázi üzenetet hagyni.

```
27 name: 'ViewProfile',
28 data(){
29   return {
30     profile: null,
31     newComment: null,
32     feedback: null,
33     comments: []
34   }
35 },
36 created(){
37   let ref = db.collection('users')
38
39   // current user
40   ref.where('user_id', '==', firebase.auth().currentUser.uid).get()
41   .then(snapshot => {
42     snapshot.forEach(doc => {
43       this.user = doc.data()
44       this.user_id = doc.id
45     })
46   })
47
48   // profile data
49   ref.doc(this.$route.params.id).get()
50   .then(user => {
51     this.profile = user.data()
52   })
53
54   // comments
55   db.collection('comments').where('to', '==', this.$route.params.id).orderBy('time')
56   .onSnapshot(snapshot => {
57     snapshot.docChanges.forEach(change => {
58       if(change.type == 'added'){
59         this.comments.unshift({
60           from: change.doc.data().from,
61           content: change.doc.data().content
62         })
63       }
64     })
65   })
66 },
67 methods: {
68   addComment(){
69     if(this.newComment){
70       this.feedback = null
71       db.collection('comments').add({
72         to: this.$route.params.id,
73         from: this.user.id,
74         content: this.newComment
75       })
76     }
77   }
78 }
```

A weboldal elkészítése után deployoltam a firebase-szel:

<https://geo-ninjas-48fa1.firebaseio.com/#/>