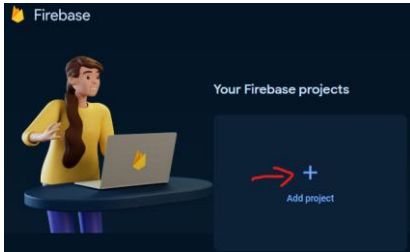
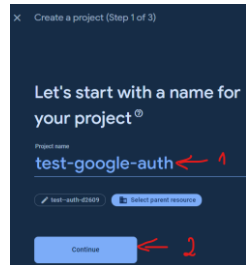
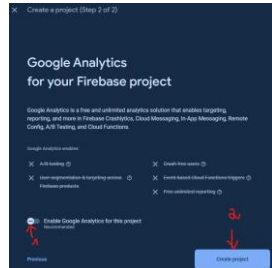
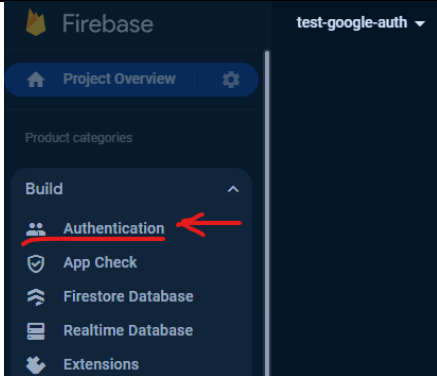
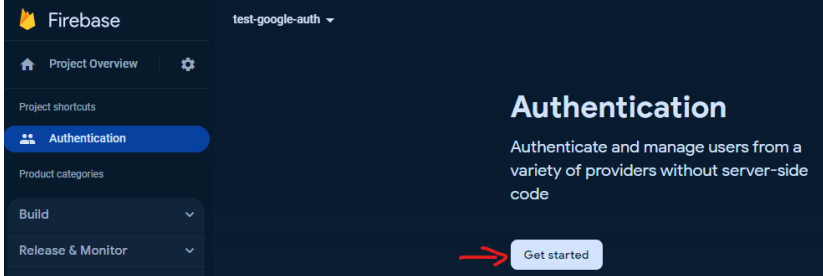
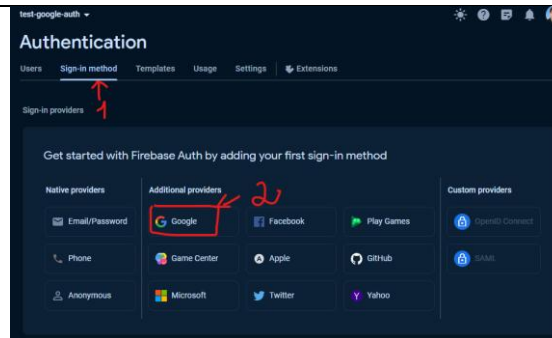


# Google oAuth Firebase

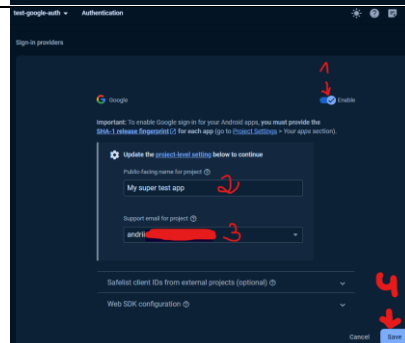
Проект повинен бути створений, ініціалізований та розміщуватися на хості.

Переходимо у Firabase Console <a href="https://console.firebase.google.com">https://console.firebase.google.com</a>			
Створюємо проект test-google-auth			
Переходимо на вкладку <b>Authentication</b>			
Переходимо за <b>Get Started</b>			

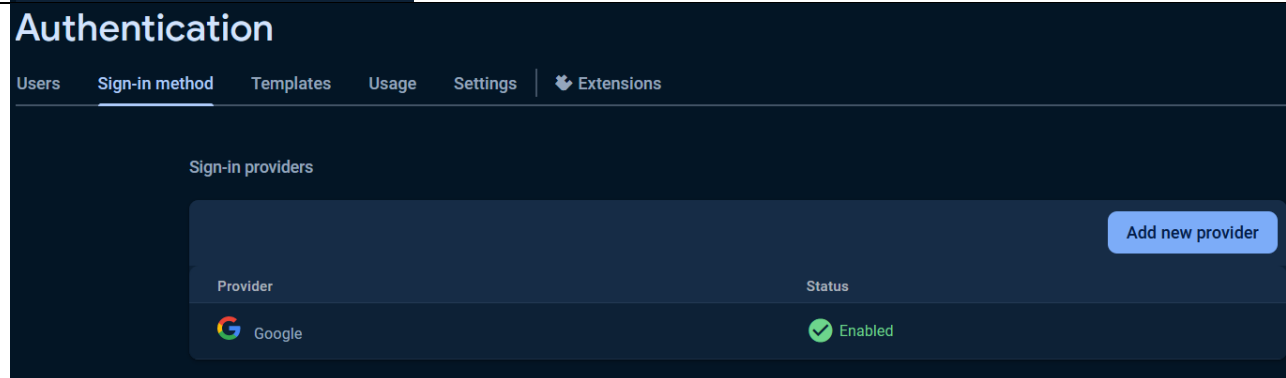
У вкладці “Sign-in method” обираємо Google



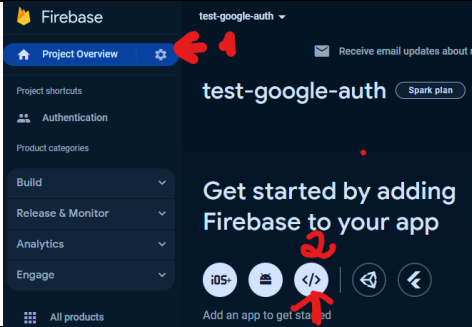
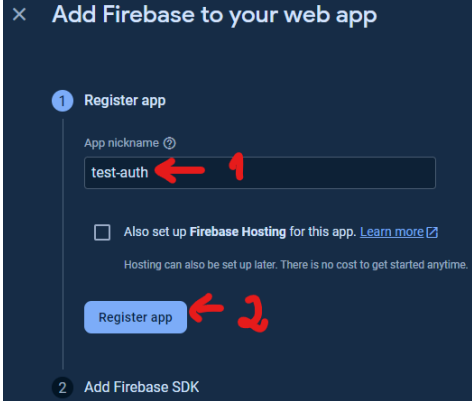
- 1)Обираємо **Enable**
- 2)задаємо назву додатку, яку будуть бачити користувачі після авторизації
- 3)задаємо електронну пошту додатку та нажимаємо **Save**

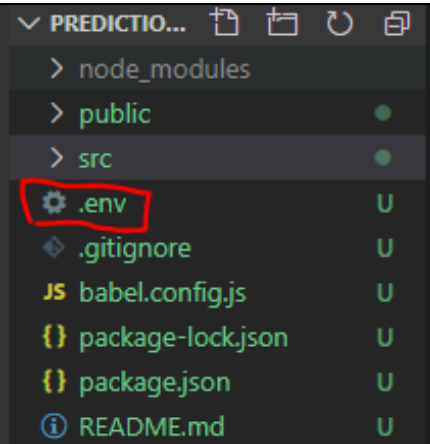


У нас з'явився Sign-in provider



Після того як у Firebase створили google провайдера, можемо його використати у нашому проєкті.

Додаємо firebase до проєкта		
Задаємо назву і реєструємо		
Встановлюємо необхідні модулі <a href="https://firebase.google.com/docs/web/setup?hl=en&amp;authuser=0&amp;_gl=1*1as5592*_ga*MjA4NDYzOTg2Ny4xNzAwNjczMzM5*_ga_CW55HF8NVT*MTcwMDczNDY2My40LjEuMTcwMDczNjIwOS42MC4wLjA">https://firebase.google.com/docs/web/setup?hl=en&amp;authuser=0&amp;_gl=1*1as5592*_ga*MjA4NDYzOTg2Ny4xNzAwNjczMzM5*_ga_CW55HF8NVT*MTcwMDczNDY2My40LjEuMTcwMDczNjIwOS42MC4wLjA</a> .	<pre>npm install firebase</pre>	
Створюємо файл .env	<div>Додаємо наш додаток в Firebase проєкт</div> <pre>//----- з <b>CLI</b> дані з Вашого проєкту VUE_APP_FIREBASE_AUTH_DOMAIN= дані з Вашого проєкту = дані з Вашого проєкту VUE_APP_FIREBASE_PROJECT_ID= дані з Вашого проєкту VUE_APP_FIREBASE_STORAGE_BUCKET= дані з Вашого проєкту VUE_APP_FIREBASE_MESSAGE_SENDER_ID= дані з Вашого проєкту VUE_APP_FIREBASE_APP_ID= дані з Вашого проєкту //----- з <b>VITE</b></pre>	



<https://cli.vuejs.org/ru/guide/mode-and-env.html#%D0%BF%D0%B5%D1%80%D0%B5%D0%BC%D0%B5%D0%BD%D0%BD%D1%8B%D0%B5-%D0%BE%D0%BA%D1%80%D1%83%D0%B6%D0%B5%D0%BD%D0%B8%D1%8F>

```
VITE_FIREBASE_API_KEY = дані з Вашого проекту
VITE_FIREBASE_AUTH_DOMAIN= дані з Вашого проекту
VITE_FIREBASE_DATABASE_URL= дані з Вашого проекту
VITE_FIREBASE_PROJECT_ID= дані з Вашого проекту
VITE_FIREBASE_STORAGE_BUCKET= дані з Вашого проекту
VITE_FIREBASE_MESSAGE_SENDER_ID= дані з Вашого проекту
VITE_FIREBASE_APP_ID= дані з Вашого проекту
```


Копіюємо з сайту

Then, initialize Firebase and begin using the SDKs for the products you'd like to use.

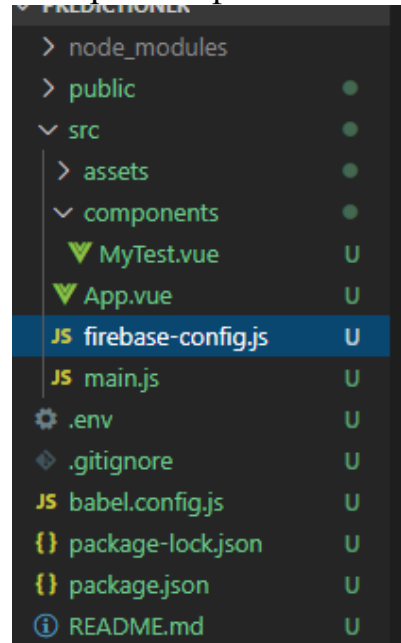
```
// Import the functions you need from the SDKs you need
import { initializeApp } from "firebase/app";
// TODO: Add SDKs for Firebase products that you want to use
// https://firebase.google.com/docs/web/setup#available-libraries

// Your web app's Firebase configuration
const firebaseConfig = {
  apiKey: "AIzaSyA...",
  authDomain: "...",
  projectId: "...",
  storageBucket: "...",
  messagingSenderId: "...",
  appId: "..."
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
```



## Створюємо файл налаштувань firebase



```
import { initializeApp } from 'firebase/app'
import { getFirestore } from 'firebase/firestore/lite'

const firebaseConfig = {
  apiKey: process.env.VUE_APP_FIREBASE_API_KEY,
  authDomain: process.env.VUE_APP_FIREBASE_AUTH_DOMAIN,
  projectId: process.env.VUE_APP_FIREBASE_PROJECT_ID,
  storageBucket: process.env.VUE_APP_FIREBASE_STORAGE_BUCKET,
  messagingSenderId: process.env.VUE_APP_FIREBASE_MESSAGE_SENDER_ID,
  appId: process.env.VUE_APP_FIREBASE_APP_ID
};

const app = initializeApp(firebaseConfig)
const db = getFirestore(app)
export default db
```

У файлі конфігурації додаємо ініціалізацію засобів авторизації:

```
import { getAuth } from 'firebase/auth';
```

```
export const auth = getAuth(app);
```

```
import { initializeApp } from 'firebase/app'
import { getFirestore } from 'firebase/firestore/lite'
import { getAuth } from 'firebase/auth'

const firebaseConfig = {
  apiKey: process.env.VUE_APP_FIREBASE_API_KEY,
  authDomain: process.env.VUE_APP_FIREBASE_AUTH_DOMAIN,
  projectId: process.env.VUE_APP_FIREBASE_PROJECT_ID,
  storageBucket: process.env.VUE_APP_FIREBASE_STORAGE_BUCKET,
  messagingSenderId: process.env.VUE_APP_FIREBASE_MESSAGE_SENDER_ID,
  appId: process.env.VUE_APP_FIREBASE_APP_ID,
}

const app = initializeApp(firebaseConfig)
export const auth = getAuth(app)
const db = getFirestore(app)
export default db
```

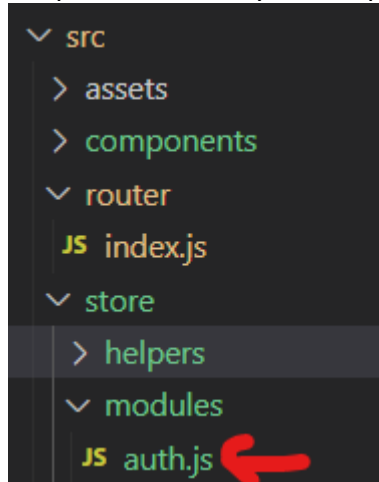
----- для VITE

```
import { initializeApp } from 'firebase/app'
import { getFirestore } from 'firebase/firestore/lite'
import { getAuth } from 'firebase/auth'

const firebaseConfig = {
  apiKey: import.meta.env.VUE_APP_FIREBASE_API_KEY,
  authDomain: import.meta.env.VUE_APP_FIREBASE_AUTH_DOMAIN,
  projectId: import.meta.env.VUE_APP_FIREBASE_PROJECT_ID,
  storageBucket: import.meta.env.VUE_APP_FIREBASE_STORAGE_BUCKET,
  messagingSenderId: import.meta.env.VUE_APP_FIREBASE_MESSAGE_SENDER_ID,
  appId: import.meta.env.VUE_APP_FIREBASE_APP_ID,
}

const app = initializeApp(firebaseConfig)
export const auth = getAuth(app)
const db = getFirestore(app)
export default db
```

Розробляємо модуль авторизації



```
import { auth } from '@/firebase-config.js'
import { GoogleAuthProvider, signInWithPopup, signInWithCredential, signOut } from
'firebase/auth'

export default {
  namespaced: true,
  state: {
    user: null,

    loading: false,
    error: null,
  },
  getters: {
    getUser: (state) => state.user,
  },
  mutations: {
    setUser(state, user) {
      state.user = user
    },
  },
}
```

```

    setLoading(state, loading) {
      state.loading = loading
    },
    setError(state, error) {
      state.error = error
    },
  },
  actions: {
    async saveLoginUserData({ commit }, loginResult) {
      console.log('loginResult')
      console.log(loginResult)
      //----- user data -----
      const user = loginResult?.user // об'єкт користувача
      commit('setUser', user)
      //user.displayName - ім'я акаунту
      //user.photoURL - аватар акаунту
      //user.email - електронна адреса акаунту

      //----- user access token -----
      // This gives you a Google Access Token. You can use it to access the
      Google API.
      let credential = GoogleAuthProvider.credentialFromResult(loginResult)

      localStorage.setItem('authCredential', JSON.stringify(credential))
    },
    loginWithGoogle({ commit, dispatch }) {
      const provider = new GoogleAuthProvider()
      signInWithPopup(auth, provider)
        .then((loginResult) => {
          dispatch('saveLoginUserData', loginResult)
        })
        .catch((error) => {
          commit('setError', error)
        })
    },
    async loginWithCredential({ commit, dispatch }) {
      return new Promise((resolve, reject) => {

```

```

let credential = localStorage.getItem('authCredential')

if (credential) {
  credential = JSON.parse(credential)

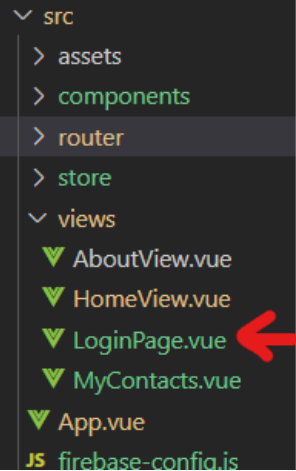
  credential = GoogleAuthProvider.credential(credential.idToken)

  signInWithCredential(auth, credential)
    .then((loginResult) => {
      dispatch('saveLoginUserData', loginResult)
      resolve(loginResult)
    })
    .catch((error) => {
      console.log(error)
      commit('setError', error)
      // Handle Errors here.
      //var errorCode = error.code
      //var errorMessage = error.message
      // The email of the user's account used.
      //var email = error.email
      reject(false)
    })
  } else resolve(false)
})
},
logout({ commit }) {
  signOut(auth)
    .then(() => {
      localStorage.removeItem('authCredential')
      commit('setUser', null)
    })
    .catch((error) => {
      commit('setError', error)
    })
  },
},
}

```



#### Розробляємо LoginPage



```
<template>
  <div>
    <h1>Увійдіть для користування сервісами</h1>
    <button @click="onLogin">Увійти</button>
  </div>
</template>

<script>
import { mapActions } from 'vuex'

export default {
  name: 'LoginPage',

  methods: {
    ...mapActions('auth', ['loginWithGoogle']),
    async onLogin() {
      try {
        await this.loginWithGoogle()
        this.$router.push({
          name: 'home',
        })
      } catch (error) {
        alert(error.message)
      }
    },
  },
},
</script>

<style lang="scss" scoped></style>
```

#### Аналізуємо чи авторизований користувач і відображаємо

```
<template>
  <div class="container">
```

- src
  - assets
  - components
  - router
  - store
  - views
- App.vue

```

. . . . .
<div v-if="getUser">

```

```

. . . . .

```

```

<nav>
  <router-link to="/"> Home </router-link> |
  <router-link to="/about"> About </router-link>
  <router-link to="/contacts"> My Contacts </router-link>
</nav>
<div>
  <span v-if="getUser">
    <span>{{ getUser.displayName }}</span>
    
    <button @click="onLogout">Logout</button>
  </span>
  <button v-else @click="onLogin">Login</button>
</div>
</div>
<router-view />
</template>
<script>
import { mapGetters, mapActions } from 'vuex'

export default {
  computed: {
    ...mapGetters('auth', ['getUser']),
  },
  methods: {
    ...mapActions('auth', ['loginWithGoogle', 'logout']),
    onLogout() {
      this.logout()
      this.$router.push({
        name: 'login',
      })
    },
    async onLogin() {
      try {
        await this.loginWithGoogle()
        this.$router.push({
          name: 'home',

```

```
    })
  } catch {
    alert('Щось пішло не так')
  }
},
},
}
</script>

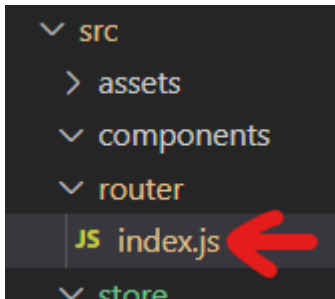
<style lang="scss">
.container {
  display: flex;
  justify-content: space-between;
  align-items: center;
}
#app {
  font-family: Avenir, Helvetica, Arial, sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  // text-align: center;
  color: #2c3e50;
}

nav {
  padding: 30px;

  a {
    font-weight: bold;
    color: #2c3e50;

    &.router-link-exact-active {
      color: #42b983;
    }
  }
}
</style>
```

Додаємо захист роутів



```
router.beforeEach(async (to) => {
  if (to.meta?.requiredAuth) {
    let isAuthenticated = store.state.auth.user

    if (!isAuthenticated) isAuthenticated =
await store.dispatch('auth/loginWithCredential')

    if (!isAuthenticated)
      return {
        name: 'login',
      }
  }
})
```

```
import { createRouter, createWebHistory } from 'vue-router'
import HomeView from '../views/HomeView.vue'
import AboutView from '../views/AboutView.vue'
import MyContacts from '../views/MyContacts.vue'
import LoginPage from '../views/LoginPage.vue'
import store from '@store'
const routes = [
  {
    path: '/',
    name: 'home',
    component: HomeView,
  },
  {
    path: '/about',
    name: 'about',
    meta: {
      requiredAuth: true,
    },
    component: AboutView,
  },
  {
    path: '/contacts',
    name: 'contacts',
    component: MyContacts,
  },
  {
    path: '/login',
    name: 'login',
    component: LoginPage,
  },
]

const router = createRouter({
  history: createWebHistory(),
  mode: 'history',
  routes,
```

```

}))

router.beforeEach(async (to) => {
  if (to.meta?.requiredAuth) {
    let isAuthenticated = store.state.auth.user

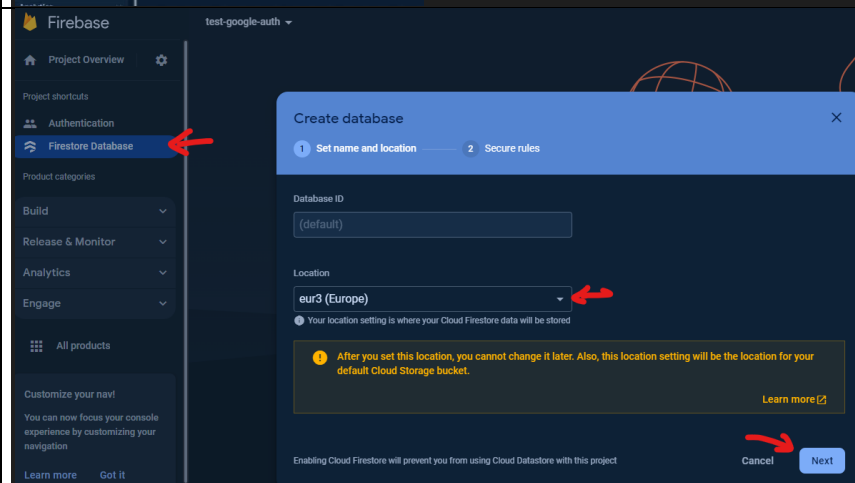
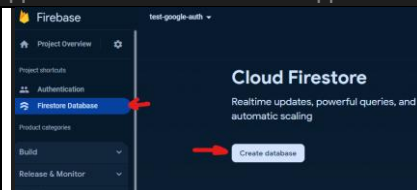
    if (!isAuthenticated) isAuthenticated = await
store.dispatch('auth/loginWithCredential')

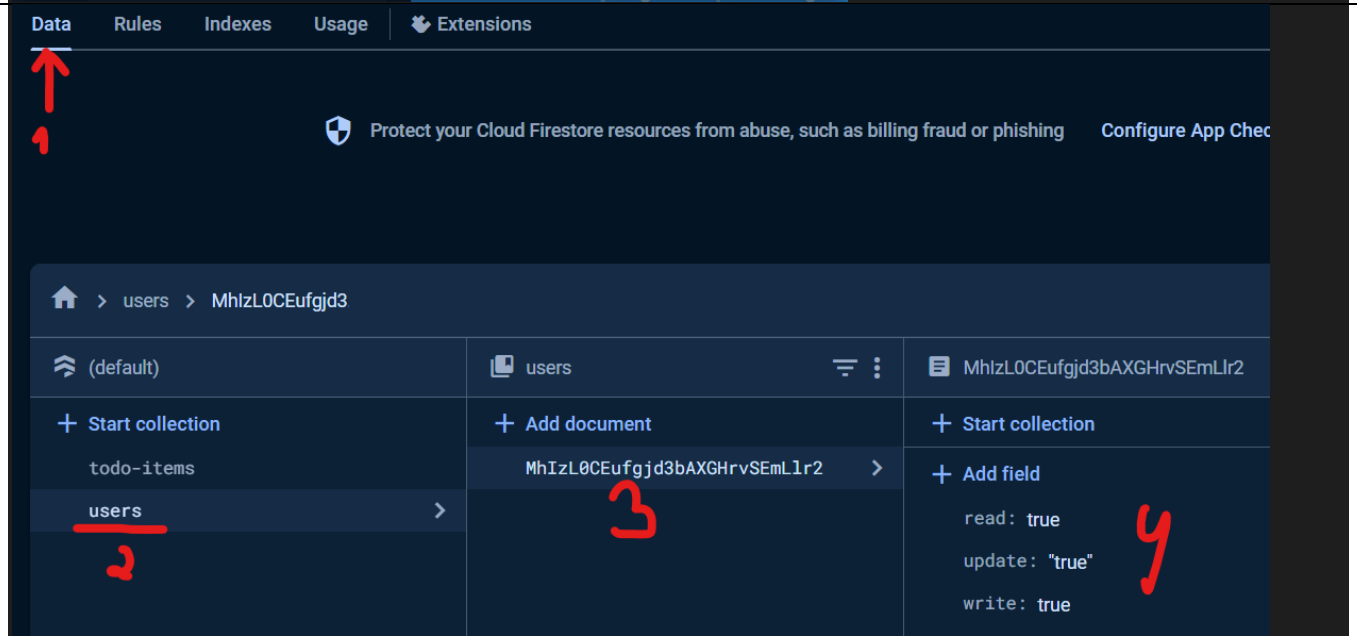
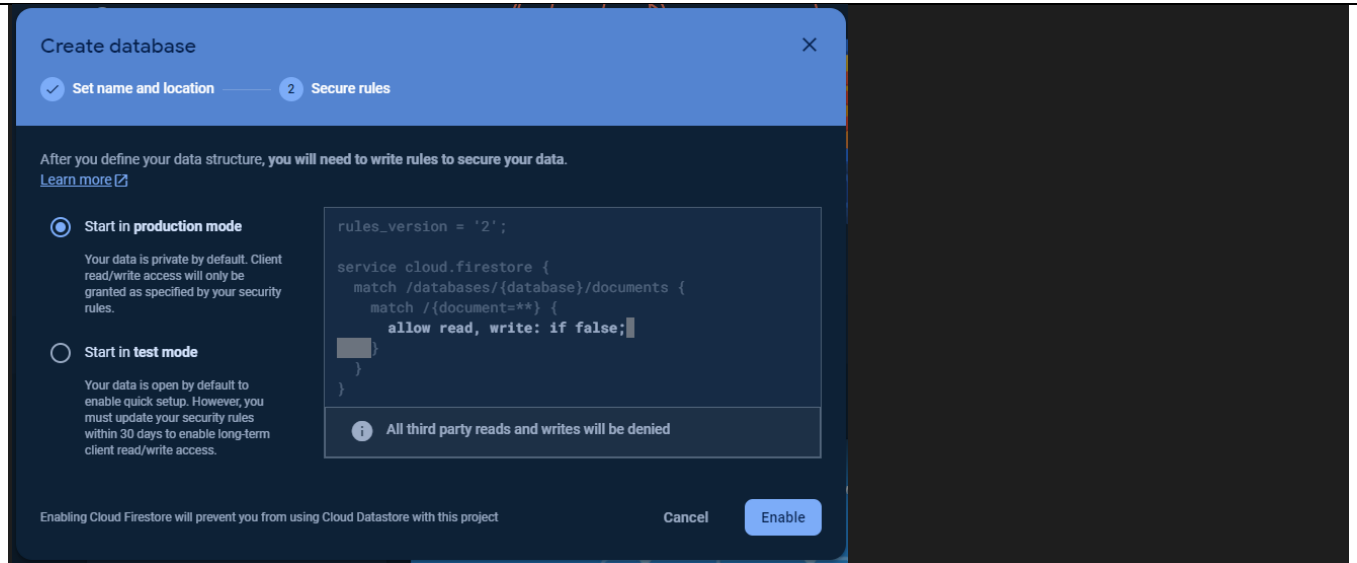
    if (!isAuthenticated)
      return {
        name: 'login',
      }
  }
})

export default router

```

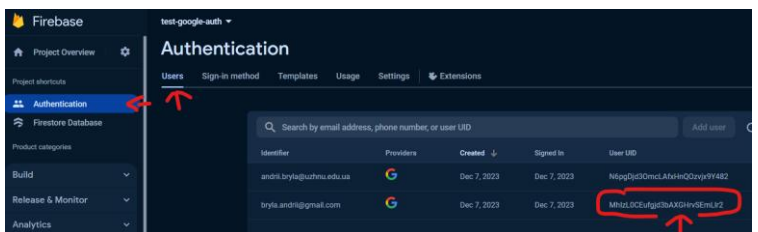
----- ОБМЕЖЕННЯ ДОСТУПУ ДЛЯ ДЕЯКИХ КОРИСТУВАЧІВ ДО БАЗИ ДАНИХ -----





Задаємо колекцію "users"

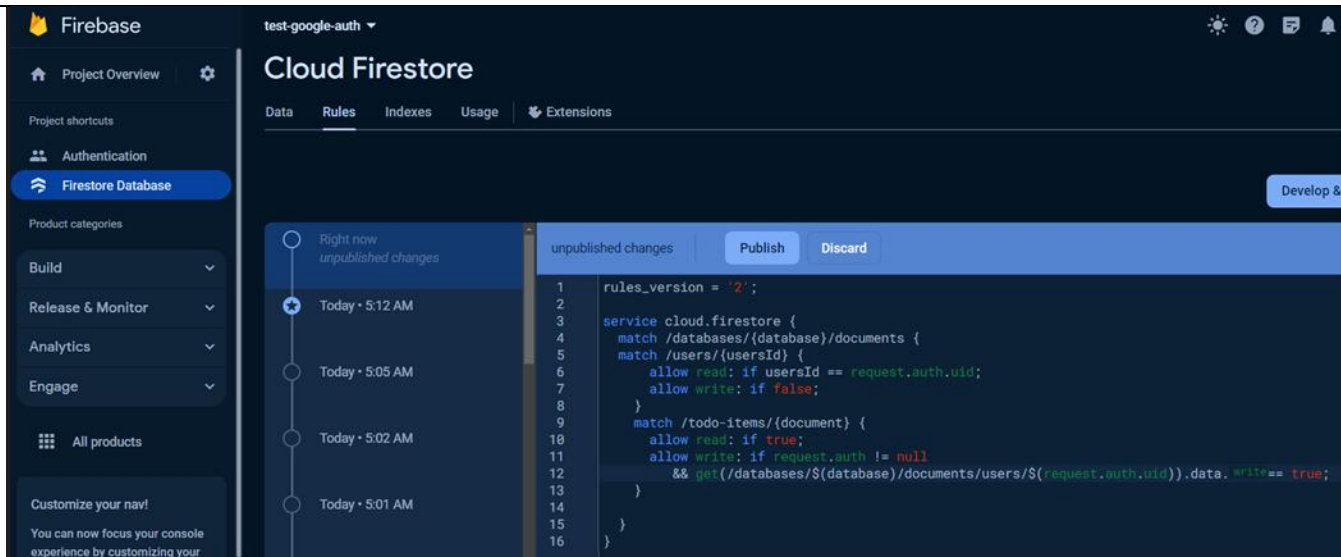
- 1)переходимо на вкладку "Data"
- 2)створюємо колекцію "users"
- 3)ідентифікатором документа є ідентифікатор користувача



4)дозволи юзера

Задаємо правила (обмеження) використання колекцій

<https://firebase.google.com/docs/firestore/security/get-started?hl=ru>

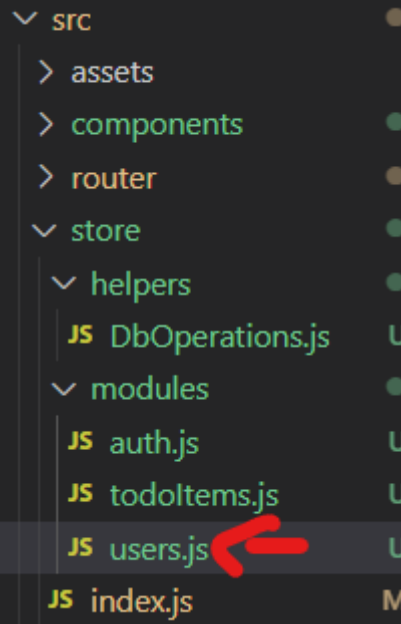


```
rules_version = '2';

service cloud.firestore {
  match /databases/{database}/documents {
    match /users/{userId} {
      allow read: if userId == request.auth.uid;
      allow write: if false;
    }
    match /todo-items/{document} {
      allow read: if true;
      allow write: if request.auth != null
        && get(/databases/{database}/documents/users/{request.auth.uid}).data.write
        == true;
    }
  }
}
```

Створюємо модуль для зчитування даних про дозволи користувачів

```
import DbOperations from '../helpers/DbOperations'
const collectionDB = new DbOperations('users')
export default {
  namespace: true,
  state: () => ({
    permissions: {},
  })
}
```



```
    loading: false,
    error: null,
  }),
  getters: {
    isLoading: (state) => state.loading,
    hasError: (state) => state.error,

    userPermissions: (state) => state.permissions,
  },
  mutations: {
    setPermissions(state, permissions) {
      state.permissions = permissions
    },

    setLoading(state, value) {
      state.loading = value
    },
    setError(state, error) {
      state.error = error
    },
  },
  actions: {
    loadUserPermissions({ commit, rootGetters }, userId) {
      userId ??= rootGetters['bar/someGetter'].getUser.uid
      collectionDB.getItemById(userId).then((permissions) => {
        commit('setPermissions', permissions)
      })
    },
    clearPermissions({ commit }) {
      commit('setPermissions', {})
    },
  },
}
```

Додаємо у модуль auth завантаження дозволів при авторизації

```
import { auth } from '@/firebase-config.js'
```



- ▼ store
- ▼ helpers
  - JS DbOperations.js
- ▼ modules
  - JS auth.js ←
  - JS todoItems.js
  - JS users.js
  - JS index.js

```
import { GoogleAuthProvider, signInWithPopup, signInWithCredential, signOut } from
'firebase/auth'

export default {
  namespace: true,
  state: {
    user: null,

    loading: false,
    error: null,
  },
  getters: {
    getUser: (state) => state.user,
  },
  mutations: {
    setUser(state, user) {
      state.user = user
    },
    setLoading(state, loading) {
      state.loading = loading
    },
    setError(state, error) {
      state.error = error
    },
  },
  actions: {
    async saveLoginUserData({ commit, dispatch }, loginResult) {
      // async saveLoginUserData({ commit }, loginResult) {
      console.log('loginResult')
      console.log(loginResult)
      //----- user data -----
      const user = loginResult?.user // об'єкт користувача
      commit('setUser', user)
      //user.displayName - ім'я акаунту
      //user.photoURL - аватар акаунту
      //user.email - електронна адреса акаунту
    }
  }
}
```

```
dispatch('users/loadUserPermissions', user.uid,
{ root: true })
```

```
//----- user access token -----
// This gives you a Google Access Token. You can use it to access the
Google API.
let credential = GoogleAuthProvider.credentialFromResult(loginResult)

localStorage.setItem('authCredential', JSON.stringify(credential))

dispatch('users/loadUserPermissions', user.uid, { root: true })
},
loginWithGoogle({ commit, dispatch }) {
  const provider = new GoogleAuthProvider()
  signInWithPopup(auth, provider)
    .then((loginResult) => {
      dispatch('saveLoginUserData', loginResult)
    })
    .catch((error) => {
      commit('setError', error)
    })
},
async loginWithCredential({ commit, dispatch }) {
  return new Promise((resolve, reject) => {
    let credential = localStorage.getItem('authCredential')

    if (credential) {
      credential = JSON.parse(credential)

      credential = GoogleAuthProvider.credential(credential.idToken)

      signInWithCredential(auth, credential)
        .then((loginResult) => {
          dispatch('saveLoginUserData', loginResult)
          resolve(loginResult)
        })
        .catch((error) => {
          console.log(error)
          commit('setError', error)
          // Handle Errors here.

```

```
dispatch('users/clearPermissions', null, { root: true })
```

```
        //var errorCode = error.code
        //var errorMessage = error.message
        // The email of the user's account used.
        //var email = error.email
        reject(false)
      })
    } else resolve(false)
  })
},
logout({ commit, dispatch }) {
  signOut(auth)
    .then(() => {
      localStorage.removeItem('authCredential')
      commit('setUser', null)
      dispatch('users/clearPermissions', null, { root: true })
    })
    .catch((error) => {
      commit('setError', error)
    })
},
},
}
```

- ▼ store
- ▼ helpers
  - JS DbOperations.js
- ▼ modules
  - JS auth.js
  - JS todoItems.js ←
  - JS users.js
  - JS index.js

```
import DbOperations from '../helpers/DbOperations'
const collectionDB = new DbOperations('todo-items')
export default {
  namespaced: true,
  state: () => ({
    todoList: [],

    loading: false,
    error: null,
  }),
  getters: {
    isLoading: (state) => state.loading,
    hasError: (state) => state.error,
```

```

    getItemsList: (state) => state.todoList,
    getItemById: (state) => (itemId) => state.todoList.find((item) => item.id ===
itemId),
  },
  mutations: {
    setItemsList(state, itemsList) {
      state.todoList = itemsList
    },
    deleteItem(state, itemId) {
      state.todoList = state.todoList.filter((item) => item.id !== itemId)
    },

    setLoading(state, value) {
      state.loading = value
    },
    setError(state, error) {
      state.error = error
    },
  },
  actions: {
    loadList({ commit }) {
      commit('setError', null)
      commit('setLoading', true)

      collectionDB
        .loadItemsList()
        .then((list) => {
          commit('setItemsList', list)
        })
        .catch((error) => {
          commit('setError', error)
        })
        .finally(() => {
          commit('setLoading', false)
        })
    },
    addItem({ commit, dispatch }, item) {

```

```

    commit('setError', null)
    commit('setLoading', true)
    collectionDB
      .addItem(item)
      .then(() => {
        dispatch('loadList')
      })
      .catch((error) => {
        commit('setError', error)
      })
      .finally(() => {
        commit('setLoading', false)
      })
  },
  deleteItem({ commit }, itemId) {
    commit('setError', null)
    commit('setLoading', true)

    collectionDB
      .deleteItem(itemId)
      .then(() => {
        commit('deleteItem', itemId)
        // dispatch('loadList')
      })
      .catch((error) => {
        commit('setError', error)
      })
      .finally(() => {
        commit('setLoading', false)
      })
  },
  updateItem({ commit, dispatch }, { itemId, data }) {
    commit('setError', null)
    commit('setLoading', true)

    collectionDB
      .updateItem(itemId, data)
  }
}

```

```

        .then(() => {
            dispatch('loadList')
        })
        .catch((error) => {
            commit('setError', error)
        })
        .finally(() => {
            commit('setLoading', false)
        })
    },
    loadFilteredData({ commit }, { fieldTitle, compareOperator, valueToCompare })
{
    commit('setError', null)
    commit('setLoading', true)
    collectionDB
        .loadFilteredData(fieldTitle, compareOperator, valueToCompare)
        .then((list) => {
            commit('setItemsList', list)
        })
        .catch((error) => {
            commit('setError', error)
        })
        .finally(() => {
            commit('setLoading', false)
        })
    },
},
}

```

▼ store  
▼ helpers  
  JS DbOperations.js  
▼ modules  
  JS auth.js  
  JS todoItems.js  
  JS users.js  
  JS index.js ←

```
import { createStore } from 'vuex'
import todoItems from './modules/todoItems'
import auth from './modules/auth'
import users from './modules/users'

export default createStore({
  namespaced: true,
  state: {},
  getters: {},
  mutations: {},
  actions: {},
  modules: {
    auth,
    users,
    todoItems,
  },
})
```

▼ store  
▼ helpers  
  JS DbOperations.js ←  
▼ modules

```
import firebaseDB from '@/firebase-config'
import { doc, collection, getDocs, getDoc, addDoc, deleteDoc, updateDoc, query, where } from 'firebase/firestore/lite'

class DbOperations {
  constructor(collectionTitle) {
    this.dbCollection = collection(firebaseDB, `/${collectionTitle}`)
  }
  getListFromSnapshot(snapshot) {
    const list = []
    snapshot.docs.forEach((doc) => {
      list.push({
        id: doc.id,
        ...doc.data(),
      })
    })
    return list
  }
}
```

```
loadItemsList() {
  return new Promise((resolve, reject) => {
    getDocs(this.dbCollection)
      .then((querySnapshot) => {
        resolve(this.getListFromSnapshot(querySnapshot))
      })
      .catch((error) => {
        reject(error)
      })
  })
}

addItem(item) {
  return new Promise((resolve, reject) => {
    addDoc(this.dbCollection, item)
      .then(() => {
        resolve(true)
      })
      .catch((error) => {
        reject(error)
      })
  })
}

deleteItem(id) {
  return new Promise((resolve, reject) => {
    deleteDoc(doc(this.dbCollection, id))
      .then(() => {
        resolve(true)
      })
      .catch((error) => {
        reject(error)
      })
  })
}

updateItem(itemId, data) {
```



```

        return new Promise((resolve, reject) => {
            const oldDocRef = doc(this.dbCollection, itemId)
            updateDoc(oldDocRef, data)
                .then(() => {
                    resolve(true)
                })
                .catch((error) => {
                    reject(error)
                })
        })
    }

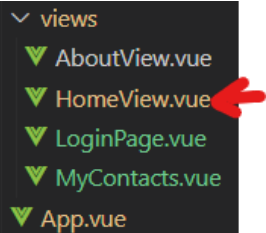
    getItemById(itemId) {
        return new Promise((resolve, reject) => {
            const docRef = doc(this.dbCollection, itemId)
            getDoc(docRef)
                .then((docSnap) => {
                    if (docSnap.exists()) resolve(docSnap.data())
                    else resolve({})
                })
                .catch((error) => {
                    reject(error)
                })
        })
    }

    loadFilteredData(fieldTitle, compareOperator, valueToCompare) {
        const q = query(this.dbCollection, where(fieldTitle, compareOperator, valueToCompare))
        return new Promise((resolve, reject) => {
            getDocs(q)
                .then((querySnapshot) => {
                    resolve(this.getListFromSnapshot(querySnapshot))
                })
                .catch((error) => {
                    reject(error)
                })
        })
    }
}

```

```
}  
  
export default DbOperations
```

Використовуємо права доступу



```
<template v-else>  
  <div v-for="item in getItemList" >  
    . . . .  
    <button v-if="userPermissions.delete"  
      @click="deleteItem(item.id)">  
      Delete  
    </button>  
    . . . .  
    <button v-if="userPermissions.update"  
      @click="onEdit(item)">  
      Edit  
    </button>  
  </div>  
</template>
```

```
<template>  
  <div class="home">  
    <div v-if="isLoading">Loading ....</div>  
    <div v-else-if="hasError">Error</div>  
    <template v-else>  
      <div v-for="item in getItemList" :key="item.id">  
        {{ item.title }} - {{ item.price }}  
        <button v-if="userPermissions.delete" @click="deleteItem(item.id)">  
          Delete  
        </button>  
        <button v-if="userPermissions.update" @click="onEdit(item)">  
          Edit  
        </button>  
      </div>  
    </template>  
    <hr />  
    <div v-if="userPermissions.write">  
      <div>  
        <label>Title </label>  
        <input v-model="task.title" type="text" />  
      </div>  
      <div>  
        <label>Price </label>  
        <input v-model="task.price" type="number" />  
      </div>  
      <button @click="onTaskAction">{{ buttonTitle }}</button>  
    </div>  
    <hr />  
    <h3>Filters</h3>  
    <div>  
      <label>Price </label>  
      <input v-model="searchPrice" type="number" />  
    </div>  
  </div>  
</template>
```

```

</div>
<button
  @click="
    loadFilteredData({
      fieldTitle: 'price',
      compareOperator: '==',
      valueToCompare: searchPrice,
    })
  "
>
  Search
</button>
<button @click="onClearFilter">Clear filter</button>
</div>
</template>

<script>
import { mapActions, mapGetters } from 'vuex'

export default {
  name: 'HomeView',

  data() {
    return {
      task: {},
      taskCopy: null,
      searchPrice: null,
    }
  },

  computed: {
    ...mapGetters('todoItems', ['getItemsList', 'isLoading', 'hasError']),
    ...mapGetters('users', ['userPermissions']),
    ...mapGetters('auth', ['getUser']),
    isEditing() {
      return this.task.id
    },
  },

```

```
buttonTitle() {
  return this.isEditing ? 'Save' : 'Add task'
},
},

created() {
  this.loadList()
},

methods: {
  ...mapActions('todoItems', [
    'loadList',
    'addItem',
    'deleteItem',
    'updateItem',
    'loadFilteredData',
  ]),
  onClearFilter() {
    this.loadList()
    this.searchPrice = null
  },
  onTaskAction() {
    if (this.isEditing) {
      const data = {}

      if (this.task.title !== this.taskCopy.title)
        data.title = this.task.title
      if (this.task.price !== this.taskCopy.price)
        data.price = this.task.price

      this.updateItem({
        itemId: this.task.id,
        data,
      })
    } else this.addItem(this.task)
    this.task = {}
  },
}
```

	<pre>onEdit(item) {   this.task = { ...item }   this.taskCopy = item }, }, } &lt;/script&gt;</pre>

<https://modularfirebase.web.app/common-use-cases/authentication/>

allow write: if request.auth != null && get(/databases/\$(database)/documents/users/\$(request.auth.uid)).read == true;