CENTRO ESTADUAL DE EDUCAÇÃO TECNOLÓGICA PAULA SOUZA FACULDADE DE TECNOLOGIA DE BOTUCATU

Programação para Dispositivos Móveis

Guia para Autenticação usando Firebase

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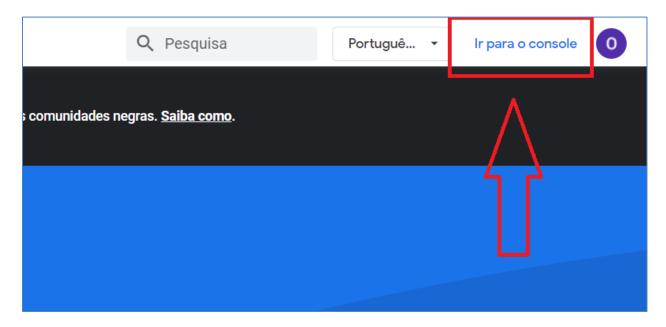
Botucatu - SP

Maio - 2021

Criação de conta Firebase

Acessar o site https://firebase.google.com para o cadastro (Pode ser utilizado uma conta Google para utilização).

Ao entrar no site, acessar o "Console", conforme a figura abaixo.



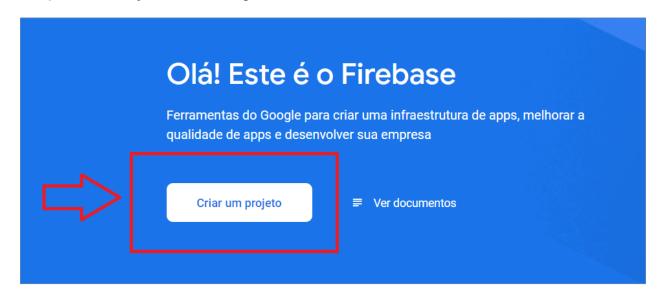
Contém documentação para projetos no Android, IOS, WEB, entre outros.



No projeto WEB será utilizado o recurso de Autenticação.

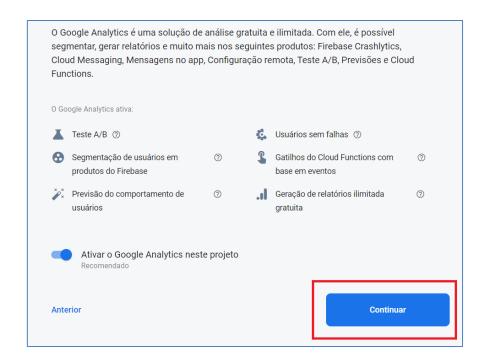


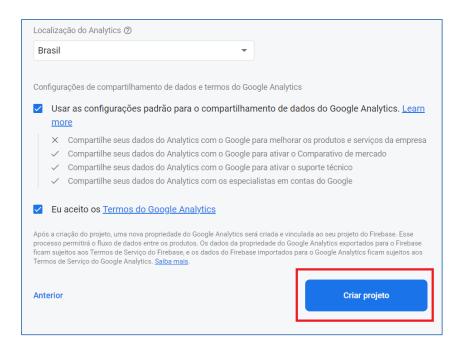
Criação de um Projeto Firebase. A partir da tela de "Console" do Firebase:

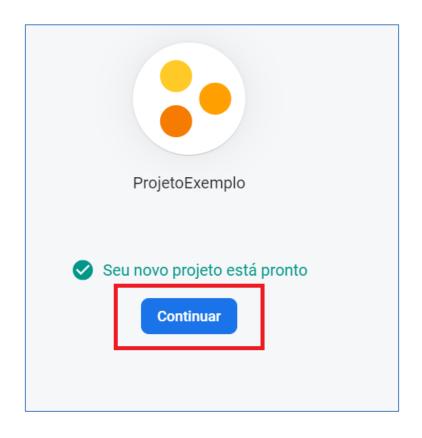


Criando o "ProjetoExemplo":

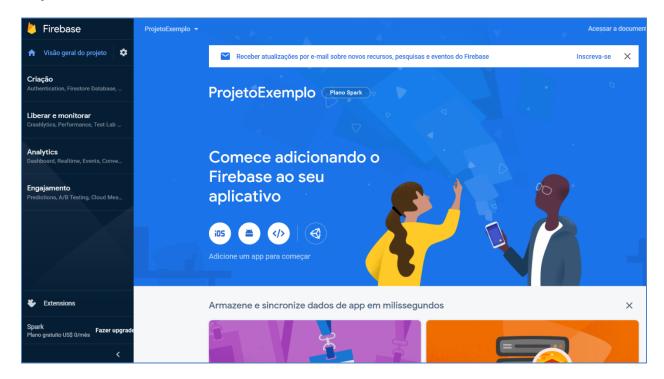




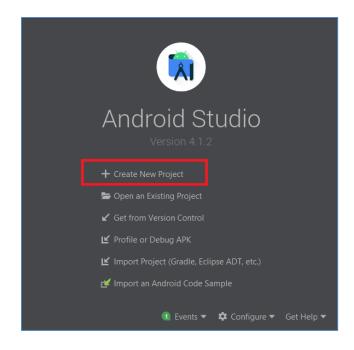


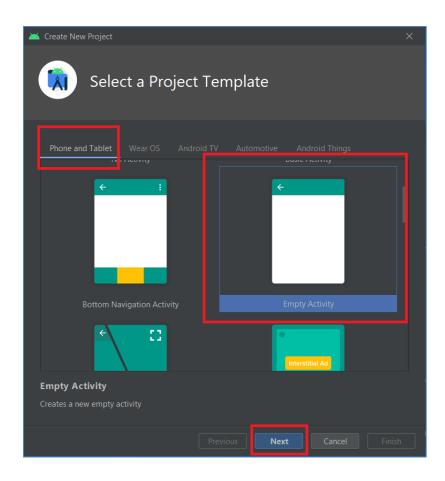


Projeto criado:

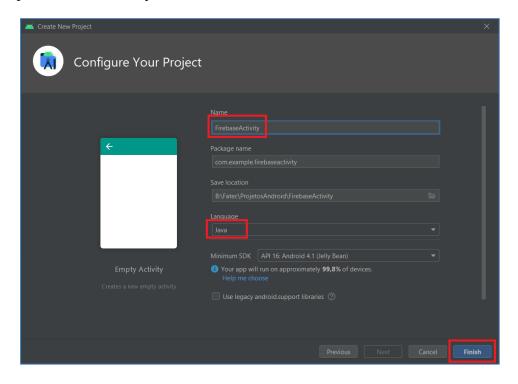


Criação do Projeto Android de Autenticação usando o Android Studio





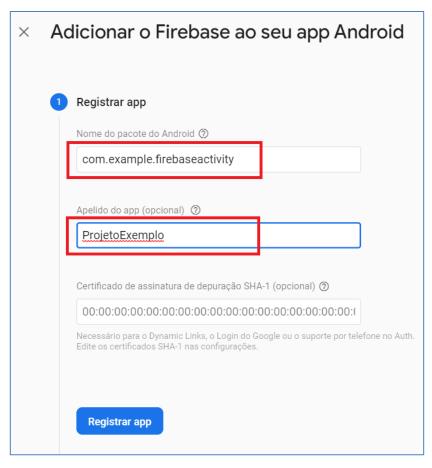
Criar o Projeto FirebaseActivity

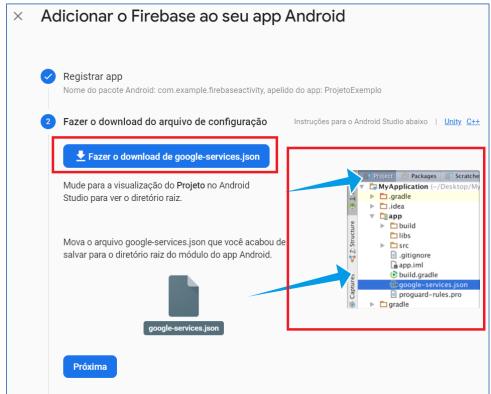


Observe na visão "Project" o arquivo "build.gradle", dentro da pasta "app", neste arquivo terá o "id" da aplicação, como no exemplo: "com.example.firebaseactivity". Este "id" será usado para registrar a APP no Firebase.

Registrar o Projeto no Firebase:

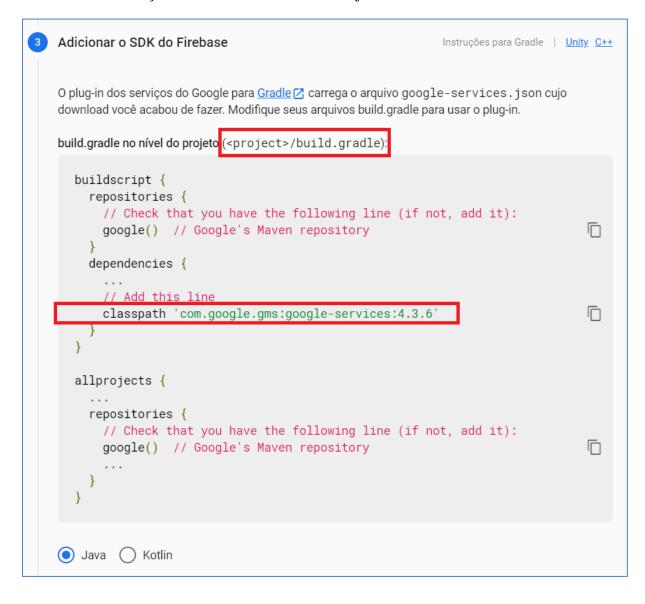




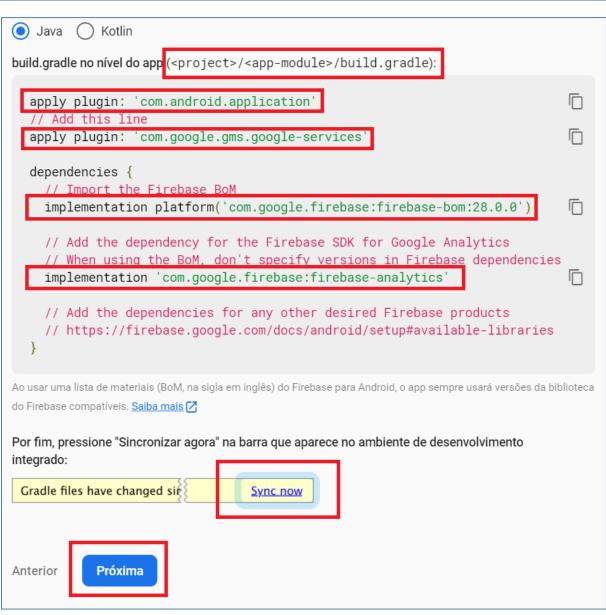


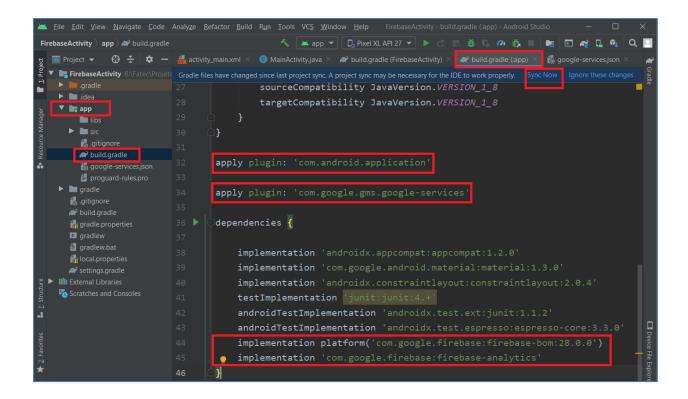
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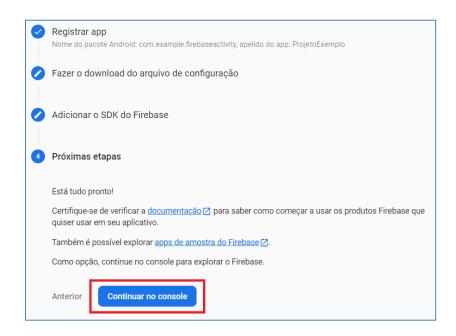
Adicionar as informações do SDK do Firebase no Projeto Android



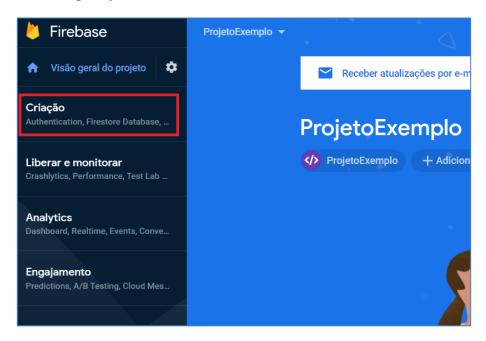
```
🗴 <u>E</u>ile <u>E</u>dit <u>View Navigate Code Analyze Refactor Build Run Iools VCS Window Help - FirebaseActivity - build.gradle (FirebaseActivity) - Android Studi</u>
FirebaseActivity ) 📦 build.gradle
   🔳 Project 🔻 🔀 😤 🔯 🗕 🛔 activity_main.xml 🗴 💿 MainActivity.java 💉 🧀 build.gradle (FirebaseActivity) 🗡 🔛 build.gradle (:app) 🗴 🦚 google-services.json
    FirebaseActivity B:\Fatec\Project Gradle files have changed since last project sync. A project sync may be necessary for the IDE to work properly.
     ▶ ■ .gradle▶ ■ .idea
                                           ⇒buildscript {
     ▶ 📑 арр
                                                 repositories {
                                                      google()
       w build.gradle
                                                      jcenter()
       🚮 gradle.properties
       aradlew.bat
                                                     classpath "com.android.tools.build:gradle:4.1.2"
       local.properties
                                                    classpath 'com.google.gms:google-services:4.3.6'
                                                      // NOTE: Do not place your application dependencies here; they belong
```

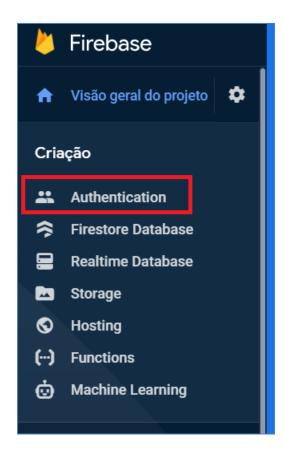


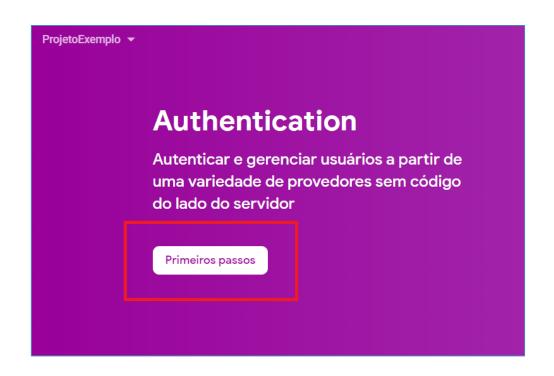


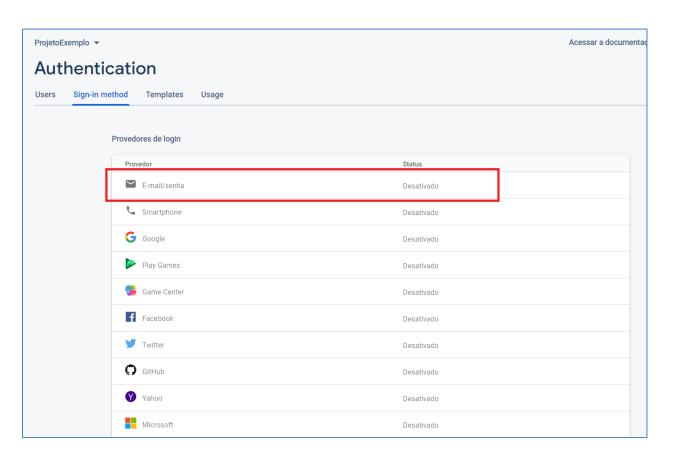


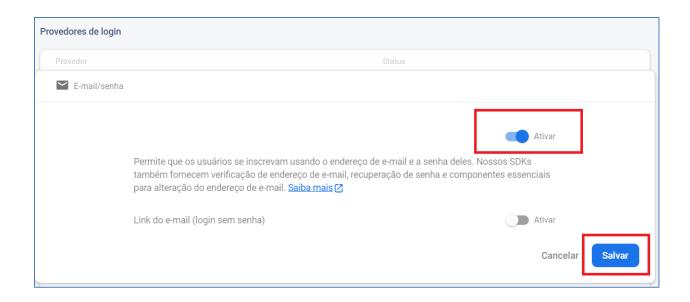
Adicionar recurso na aplicação









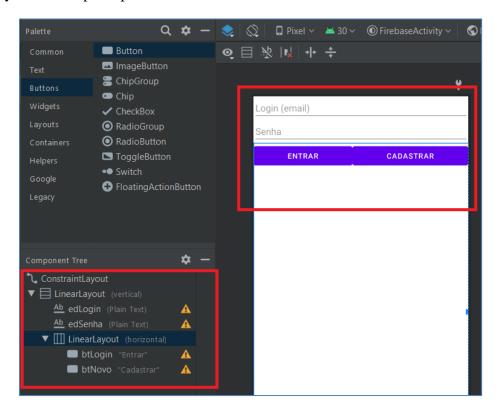


Incluir o recurso para a Autenticação do Firebase

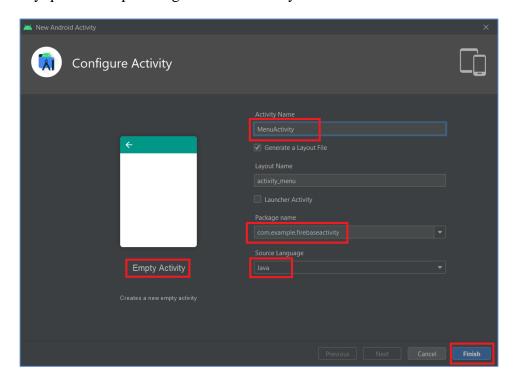
implementation 'com.google.firebase:firebase-auth'

```
FirebaseActivity | Baylander | South |
```

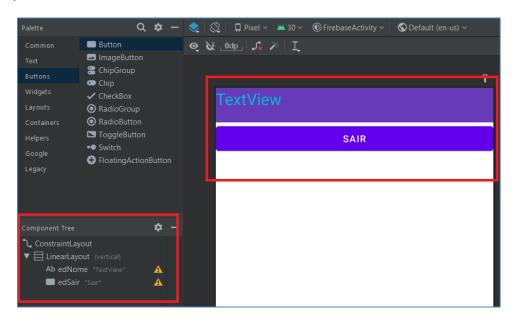
Editar o layout da tela principal:



Criar a activity que abrirá após o login - MenuActivity



Editar o layout da tela de menu:



Codificação da classe MainActivity

```
public class MainActivity extends AppCompatActivity {

   private static final String TAG = "EmailSenha";
   private FirebaseAuth mAuth;
   private EditText edLogin, edSenha;

   @Override

   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);

       mAuth = FirebaseAuth.getInstance();
       edLogin = findViewById(R.id.edLogin);
       edSenha = findViewById(R.id.edSenha);
}
```

```
@Override
protected void onStart() {
    super.onStart();
    FirebaseUser currentUser = mAuth.getCurrentUser();
    if(currentUser != null){
        abrirMenu(currentUser);
    }
}
```

```
private void abrirMenu(FirebaseUser user){
    Intent intent = new Intent(getApplicationContext(),MenuActivity.class);
    startActivity(intent);
}
```

Codificação da classe MenuActivity

```
public class MenuActivity extends AppCompatActivity {
    private FirebaseUser user;
    private TextView edNome;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_menu);

    user = FirebaseAuth.getInstance().getCurrentUser();
    edNome = findViewById(R.id.edNome);
    edNome.setText(user.getEmail());
}

public void sairUsuario(View view){
    FirebaseAuth.getInstance().signOut();
    startActivity(new Intent(getApplicationContext(),MainActivity.class));
}
}
```

Resultado da execução do projeto





Visão do usuário cadastrado no Firebase

