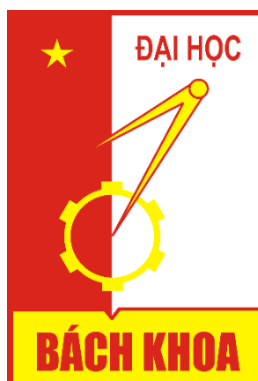


TRƯỜNG ĐẠI HỌC BÁCH KHOA HÀ NỘI
VIỆN CÔNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG

-----○○○-----



TÀI LIỆU HƯỚNG DẪN CÀI ĐẶT
ĐỀ TÀI: HỆ THỐNG ĐẶT LỊCH HẸN CHO PHÒNG
KHÁM SỨC KHỎE

Giảng viên hướng dẫn: TS. Nguyễn Bá Ngọc

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Hà Nội – 06/2020

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1. HƯỚNG DẪN CÀI ĐẶT BACKEND

1.1. Cài đặt MySQL, IntelliJ IDEA và JDK 11

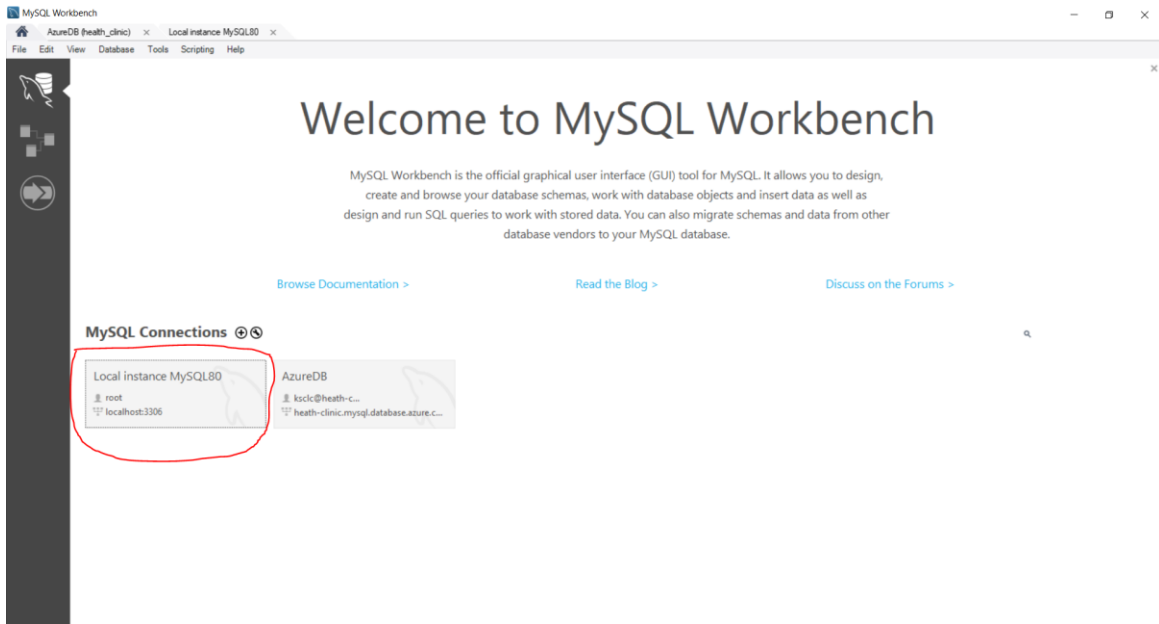
- Cài đặt **IntelliJ** tại :<https://www.jetbrains.com/idea/download>
- Cài đặt **MySQL 8.0**: <https://www.mysql.com/downloads/>
- Cài **JDK 11**:
<https://www.oracle.com/java/technologies/javase-jdk11-downloads.html>

1.2. Cài đặt cơ sở dữ liệu bằng MySQL

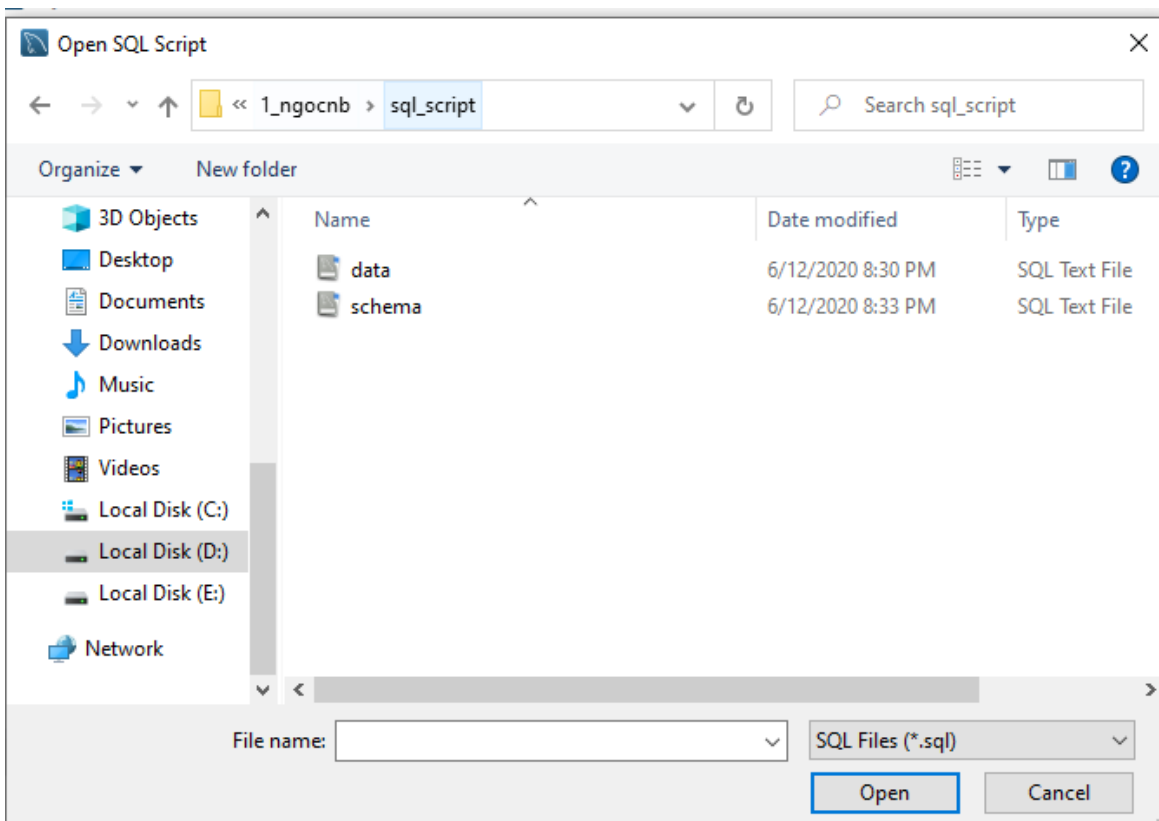
- **Bước 1:** Download project từ google drive hoặc remote repository, ta được project có các folder như sau:

Name	Date modified	Type	Size
 .git	6/12/2020 8:28 PM	File folder	
 backend	5/29/2020 3:01 PM	File folder	
 frontend	6/8/2020 11:10 AM	File folder	
 sql_script	6/12/2020 8:34 PM	File folder	

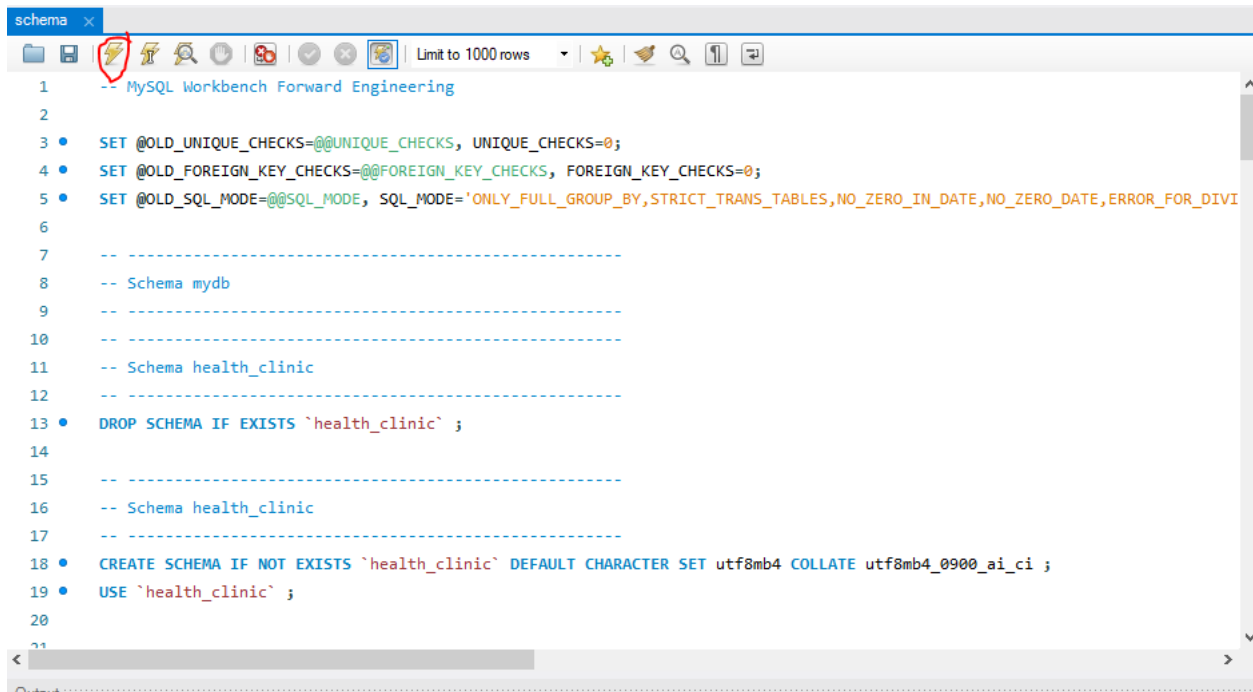
- **Bước 2:** Mở **MySQL Workbench 8.0** rồi vào **Local instace**, đăng nhập bằng tài khoản, mật khẩu đã đăng ký.



- **Bước 3:** Vào **File → Open SQL Script**, sau đó tìm đến file *schema.sql* trong thư mục **sql_script** để mở file tạo database.



- **Bước 4:** Bấm nút **Run** (như trong ảnh) để tạo database.

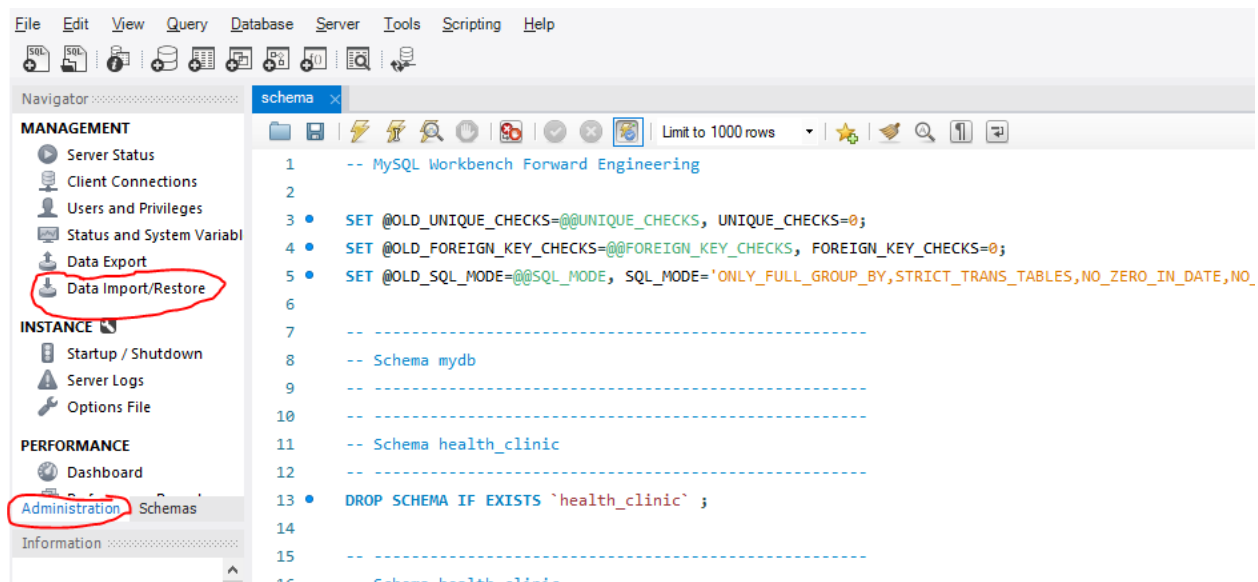


```

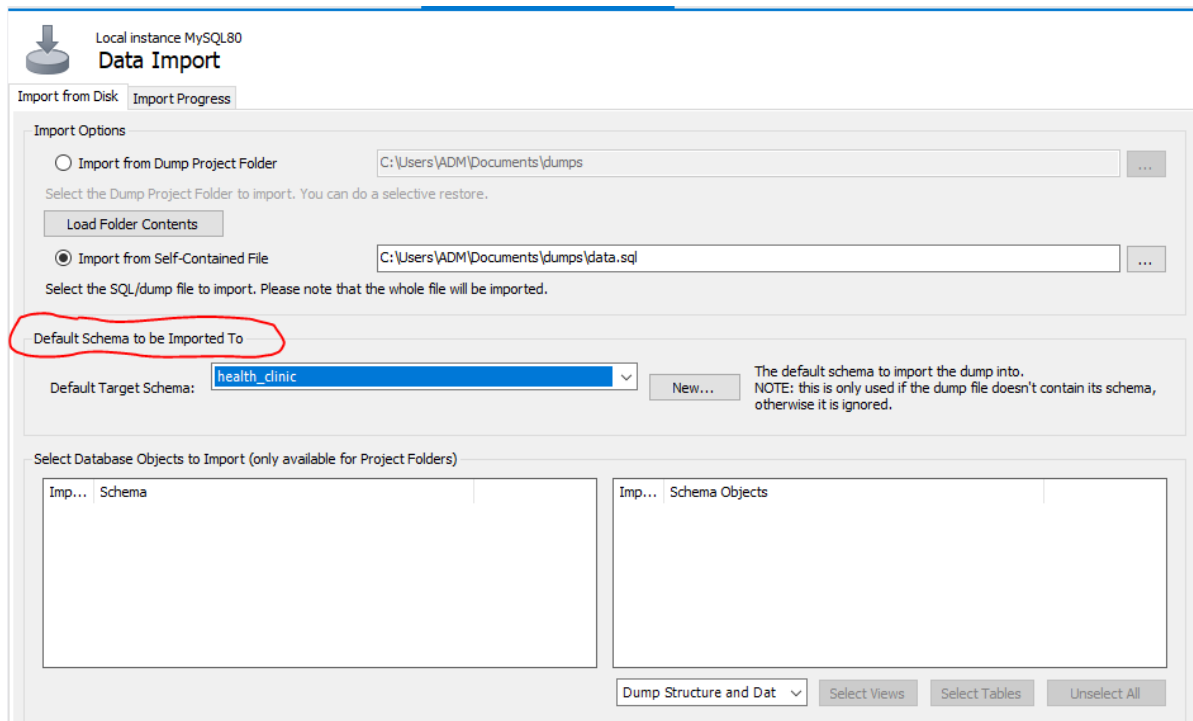
1  -- MySQL Workbench Forward Engineering
2
3  • SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
4  • SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
5  • SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVI
6
7  -----
8  -- Schema mydb
9  -----
10 -----
11 -- Schema health_clinic
12 -----
13 • DROP SCHEMA IF EXISTS `health_clinic` ;
14
15 -----
16 -- Schema health_clinic
17 -----
18 • CREATE SCHEMA IF NOT EXISTS `health_clinic` DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci ;
19 • USE `health_clinic` ;
20
21

```

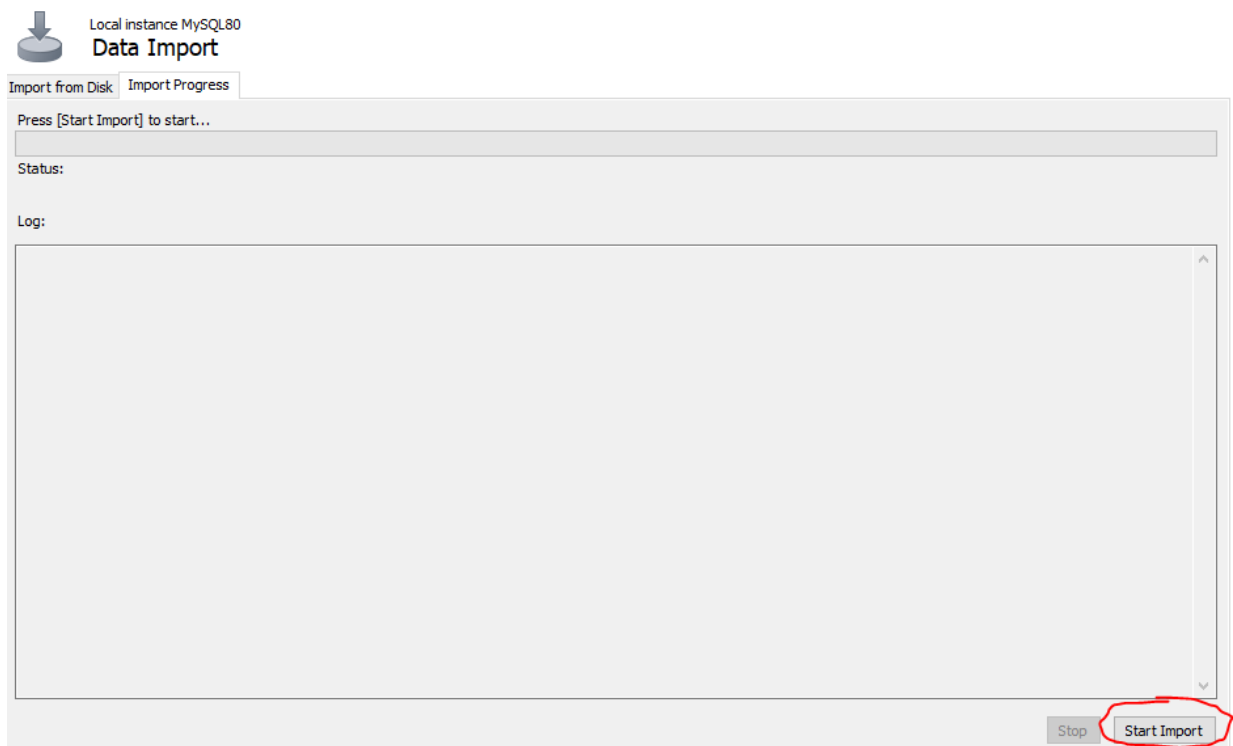
- **Bước 5:** Với phần dữ liệu, ta chuyển sang mục **Administration**, chọn **Data Import/Restore**.



- **Bước 6:** Chọn **Import from Self-Contained File**, chọn đường dẫn đến file *data.sql* trong thư mục *sql_script*.

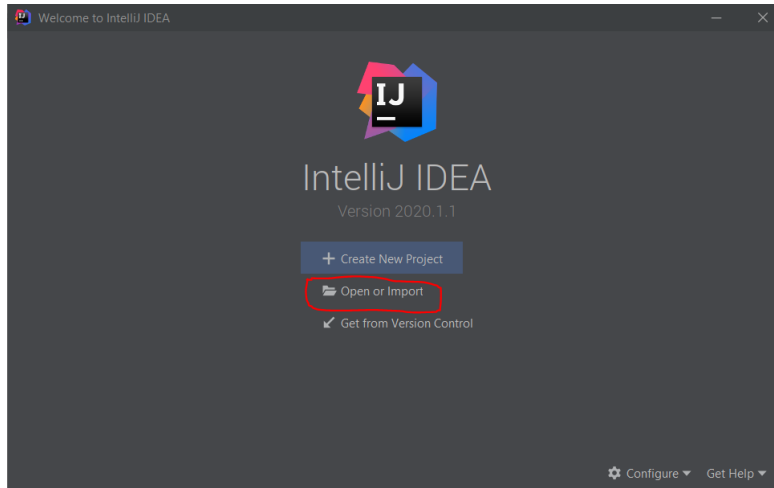


- **Bước 7:** Chuyển sang **Import Progress** và chọn **Start Import** để tạo dữ liệu sẵn cho database.

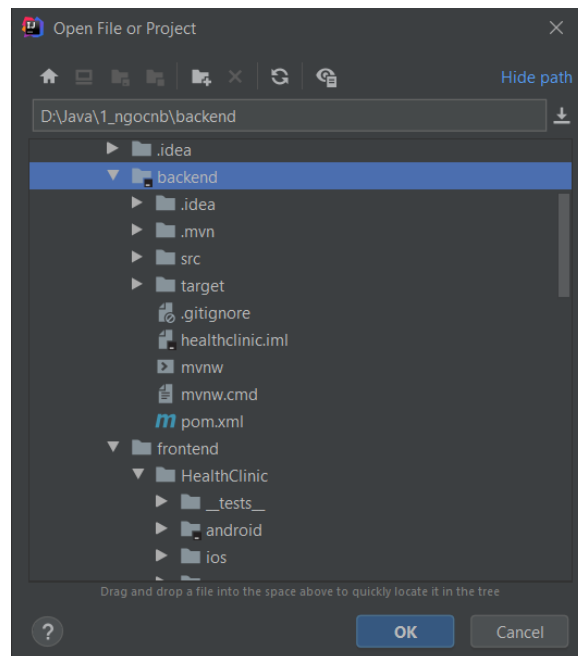


1.3. Sử dụng IntelliJ để mở project và kết nối với database

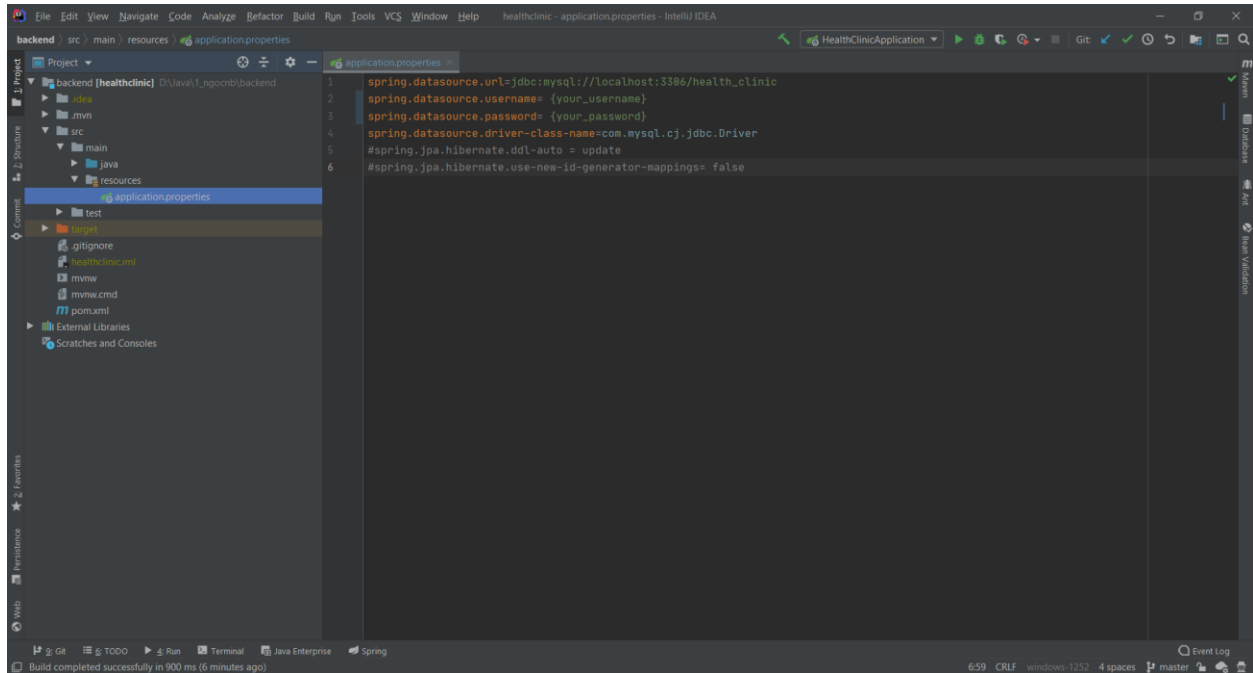
- **Bước 1:** Chọn **Open or Import**.



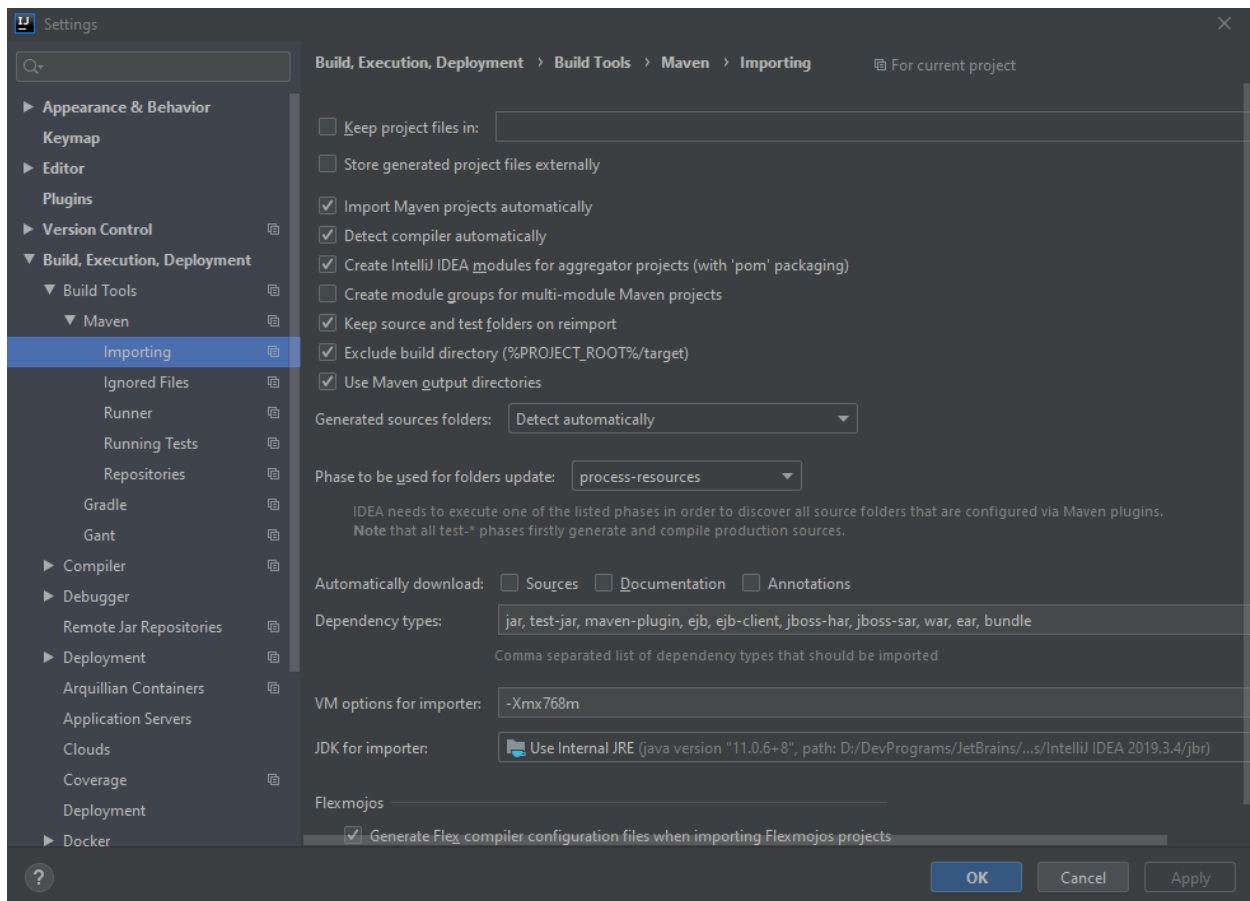
- **Bước 2:** Chọn thư mục **backend** trong project rồi click **OK**.



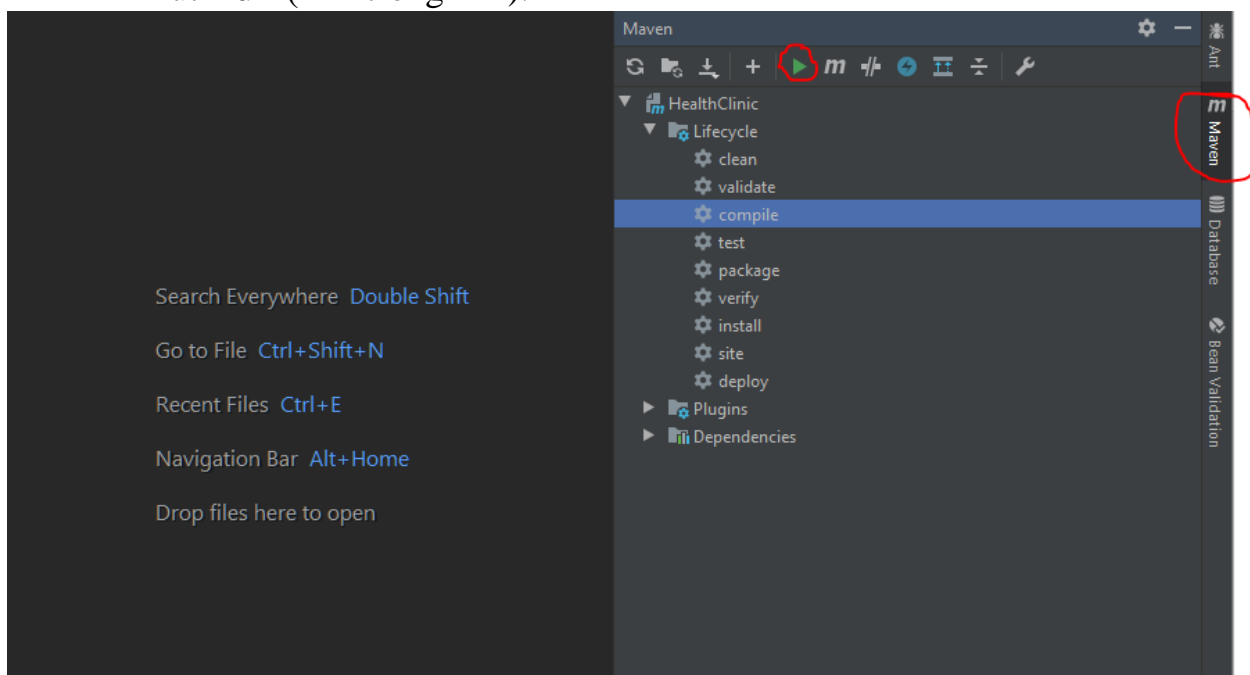
- **Bước 3:** Mở file *backend/src/main/resources/application.properties*, chỉnh sửa các giá trị:
 - **your_username:** username dùng để đăng nhập MySQL.
 - **your_password:** password dùng để đăng nhập MySQL.



- **Bước 4:** Để import tự động các package, thư viện sử dụng cho project, chọn **File → Settings → Build, Execution, Deployment → Build Tools → Maven → Importing**, chọn **Import Maven projects automatically** → Chọn **Apply**.



- **Bước 5:** Để compile project, chọn **Maven**, sau đó chọn compile và bấm nút **Run** (như trong ảnh).

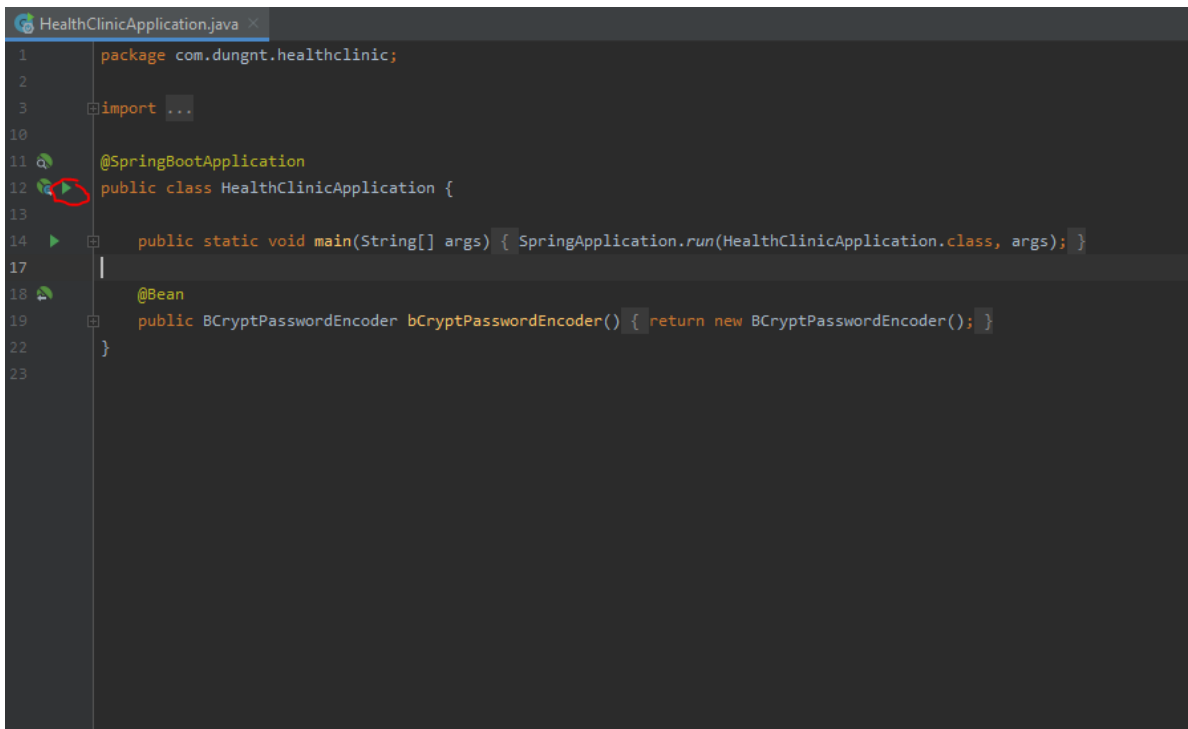


Sau khi chạy ta được kết quả như sau:

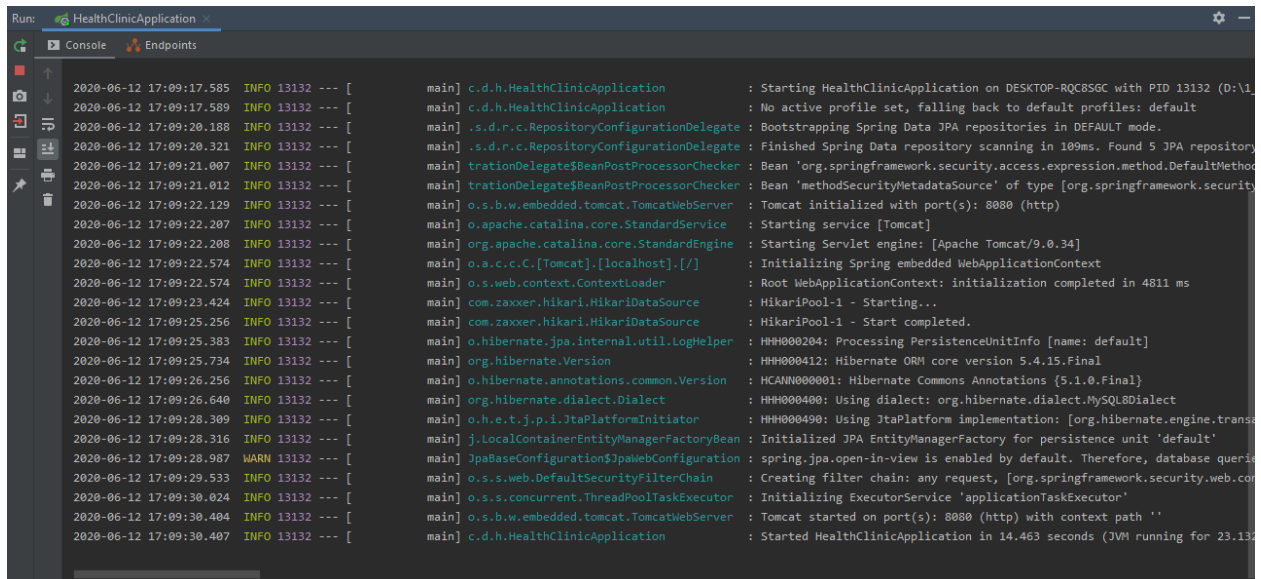
```
"D:\DevPrograms\JetBrains\IntelliJ IDEA 2019.3.4\jbr\bin\java.exe" "-Dmaven.multiModuleProjectDirectory=E:\Do an 2019\HealthClinic"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.dungnt:healthclinic >-----
[INFO] Building HealthClinic 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.1.0:resources (default-resources) @ healthclinic ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ healthclinic ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 43 source files to E:\Do an 2019\HealthClinic\backend\target\classes
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 33.757 s
[INFO] Finished at: 2020-06-12T17:02:01+07:00
[INFO]
```

Để build project, bấm tổ hợp phím **Ctrl+F9** hoặc chọn **Build → Build Project**.

Để run project, bấm tổ hợp phím **Shift + F10** hoặc mở file *backend/src/main/java/com.dungnt.healthclinic/HealthClinicApplication* và bấm nút **Run** (như trong ảnh).



Sau khi chạy, ta có kết quả:



```
Run: HealthClinicApplication
2020-06-12 17:09:17.585 INFO 13132 --- [main] c.d.h.HealthClinicApplication : Starting HealthClinicApplication on DESKTOP-RQC8SGC with PID 13132 (D:\1
2020-06-12 17:09:17.589 INFO 13132 --- [main] c.d.h.HealthClinicApplication : No active profile set, falling back to default profiles: default
2020-06-12 17:09:20.188 INFO 13132 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2020-06-12 17:09:20.321 INFO 13132 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 109ms. Found 5 JPA repository
2020-06-12 17:09:21.007 INFO 13132 --- [main] trationDelegate$BeanPostProcessorChecker : Bean 'org.springframework.security.access.expression.method.DefaultMethod
2020-06-12 17:09:21.012 INFO 13132 --- [main] trationDelegate$BeanPostProcessorChecker : Bean 'methodSecurityMetadataSource' of type [org.springframework.security
2020-06-12 17:09:22.129 INFO 13132 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2020-06-12 17:09:22.207 INFO 13132 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2020-06-12 17:09:22.208 INFO 13132 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.34]
2020-06-12 17:09:22.574 INFO 13132 --- [main] o.s.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2020-06-12 17:09:22.574 INFO 13132 --- [main] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 4811 ms
2020-06-12 17:09:23.424 INFO 13132 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2020-06-12 17:09:25.256 INFO 13132 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2020-06-12 17:09:25.383 INFO 13132 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2020-06-12 17:09:25.734 INFO 13132 --- [main] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.4.15.Final
2020-06-12 17:09:26.256 INFO 13132 --- [main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.0.Final}
2020-06-12 17:09:26.640 INFO 13132 --- [main] org.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
2020-06-12 17:09:26.309 INFO 13132 --- [main] o.h.e.t.j.p.l.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transac
2020-06-12 17:09:28.316 INFO 13132 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2020-06-12 17:09:28.987 WARN 13132 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database querie
2020-06-12 17:09:29.533 INFO 13132 --- [main] o.s.s.web.DefaultSecurityFilterChain : Creating filter chain: any request, [org.springframework.security.web.com
2020-06-12 17:09:30.024 INFO 13132 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2020-06-12 17:09:30.404 INFO 13132 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2020-06-12 17:09:30.407 INFO 13132 --- [main] c.d.h.HealthClinicApplication : Started HealthClinicApplication in 14.463 seconds (JVM running for 23.132
```

2. HƯỚNG DẪN CÀI ĐẶT FRONTEND

2.1. Cài đặt môi trường phát triển cho React Native trên Window

- **Bước 1:** Vào trang web <https://reactnative.dev/docs/environment-setup>.
- **Bước 2:** Chọn **React Native CLI Quickstart**.

If you are new to mobile development, the easiest way to get started is with Expo CLI. Expo is a set of tools built around React Native and, while it has many **features**, the most relevant feature for us right now is that it can get you writing a React Native app within minutes. You will only need a recent version of Node.js and a phone or emulator. If you'd like to try out React Native directly in your web browser before installing any tools, you can try out **Snack**.

If you are already familiar with mobile development, you may want to use React Native CLI. It requires Xcode or Android Studio to get started. If you already have one of these tools installed, you should be able to get up and running within a few minutes. If they are not installed, you should expect to spend about an hour installing and configuring them.

Expo CLI Quickstart

React Native CLI Quickstart

- **Bước 3:** Ở mục **Development OS** chọn **Windows**, mục **Target OS** chọn **Android**.

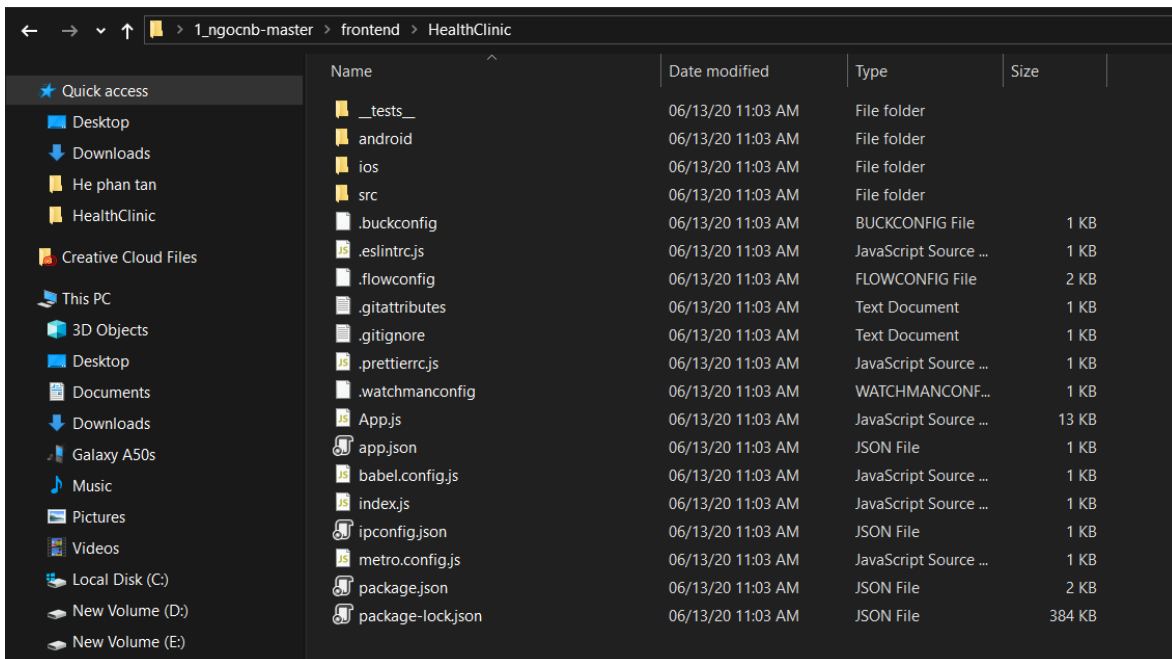
Development OS: macOS Windows Linux

Target OS: iOS Android

- **Bước 4:** Làm theo các hướng dẫn để cài đặt môi trường phát triển cho **React Native**.

2.2. Cấu hình và chạy ứng dụng

- **Bước 1:** Trong thư mục mã nguồn (**1_ngocnb-master**), di chuyển đến thư mục **/frontend/HealthClinic**.



- **Bước 2:** Mở file **ipconfig.json**, ở dòng **"ip"**: **"192.168.9.105"** thay bằng địa chỉ IP của máy tính của bạn.

```
{  
  "ip": "192.168.9.105"  
}
```

- **Bước 3:** Mở **Command Prompt**, điều hướng đến thư mục **HealthClinic** mà bạn đang làm việc. Chạy lệnh **npm install** và đợi cho quá trình cài đặt hoàn tất.

```
C:\Users\Admin\Desktop\1_ngocnb-master\frontend\HealthClinic>npm install

> core-js@2.6.11 postinstall C:\Users\Admin\Desktop\1_ngocnb-master\frontend\HealthClinic\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!

The project needs your help! Please consider supporting of core-js on Open Collective or Patreon:
> https://opencollective.com/core-js
> https://www.patreon.com/zloirock

Also, the author of core-js ( https://github.com/zloirock ) is looking for a good job -)

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"an
y"} (current: {"os":"win32","arch":"x64"})

added 1138 packages from 634 contributors and audited 1145 packages in 51.251s

30 packages are looking for funding
  run `npm fund` for details

found 1 low severity vulnerability
  run `npm audit fix` to fix them, or `npm audit` for details
```

- **Bước 4:** Chạy lệnh **react-native run-android** để chạy ứng dụng (lưu ý là bạn phải chạy Server trước khi thực hiện lệnh này).

```
C:\Users\Admin\Desktop\1_ngocnb-master\frontend\HealthClinic>react-native run-android
```