

## Step 2: Project Initialization and Setup

### Pre-requisites

- JDK installed (Java Development Kit, version 8 or higher)
- IntelliJ IDEA installed (Community or Ultimate Edition)
- Git installed (For version control)

### Steps to Initialize the Project

- **Open IntelliJ IDEA**  
Launch IntelliJ IDEA on your computer.
- **Start a New Project**
  - Click **File -> New -> Project**.
  - Choose **Spring Initializr**.
  - Make sure you select Java as the language.
  - Click **Next**.
- **Project Metadata**
  - Fill in the **Group** and **Artifact** fields as per your requirement. For example:
    - Group: **com.example**
    - Artifact: **highscore-api**
  - Click **Next**.
- **Add Dependencies**
  - Search and add the following:
    - **Spring Web**
    - **Spring Data JPA**
    - **H2 Database**
  - Click **Next** and then **Finish**.
- **Project Structure**  
Your project structure will be generated automatically. It should look similar to what was outlined in the previous step.
- **Version Control Initialization**
  - Open the terminal within IntelliJ.
  - Run **git init** to initialize a new git repository in your project directory.
- **Initial Commit**
  - Run **git add .** to stage all files.
  - Run **git commit -m "Initial commit"** to commit the staged files.

### Documentation

Create a **README.md** file in the root directory of the project. Write down a brief introduction and describe this setup step. For example:

markdown

Copy code

# High Score API

## Step 2: Project Initialization and Setup

In this step, we initialized the Spring Boot project with necessary dependencies. We chose Java as the programming language and added dependencies for Spring Web, Spring Data JPA, and H2 Database.

Conclusion

At this point, you've successfully set up a Spring Boot project in IntelliJ IDEA with the necessary dependencies. You've also initialized Git for version control and documented the process in a README file.