## **Step 3: Model Creation**

In this step, you'll create a Java class to represent a high score entity. This class will act as the model in your application's MVC (Model-View-Controller) architecture.

## Steps to Create the Model

- Create New Package
  - In the src/main/java/com/example/highscoreapi directory, create a new package and name it model.
- Create HighScore Class
  - Inside the **model** package, create a new Java class and name it **HighScore**.
- Add Annotations and Fields
  - Annotate the class with @Entity to indicate that it's a JPA entity.
  - Create fields for id, playerName, and score.
  - Annotate id with @Id and @GeneratedValue(strategy = GenerationType.IDENTITY) for auto-generation.

Here is how your **HighScore** class should look:

java

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package com.example.highscore.model;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
public class HighScore {

@Id
@GeneratedValue(strategy = GenerationType.IDENTITY)
private Long id;
private String playerName;
private int score;

## // Getters and Setters

Documentation

Update the **README.md** with details of this step:

markdown

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## Step 3: Model Creation

We created a `HighScore` class inside a new package named `model`. This class serves as the JPA entity and contains fields for `id`, `playerName`, and `score`. Annotations are used to specify the `id` as the primary key and to enable auto-generation for it.

**Commit Changes** 

After completing this step, it's a good idea to commit these changes to your Git repository.

- Run git add. to stage the new files and changes.
- Run git commit -m "Created HighScore model" to commit the staged changes.

## Conclusion

You've successfully defined the **HighScore** class to represent the data model in your application. It has the necessary JPA annotations to map it to a database table.