Create Spring Boot Project

For example using the spring-boot command line tool.

```
# install the spring-cli
brew tap spring-io/tap
brew install spring-boot

# initialize spring project

spring init --dependencies=web,data-jpa,flyway,postgresql,testcontainers,lombok,restdocs,validation \
--java-version 11 --package-name com.fcoach --name api springboot-postgres
# use 'spring init --list' to discover dependencies
```

Spring Data, JPA

- Spring Data JPA
- Accessing Data with JPA

Spring Data Repository

```java
@Repository
public interface PlayerRepository
  extends JpaRepository<Player, Long> {

  List<Player> findPlayerByName(String name);
  Page<Player> findPlayerByBirthdayLessThanEqual
    (LocalDate since, Pageable pageable);

}
```

JPQL

SQL like query language with Java objects support (dot notation).

```java
@Query("select p from Player p where p.birthday >= :sinceDate")
List<Player> findPlayersBornSince(@Param("sinceDate") LocalDate since);
```

Integration Testing

- [Testcontainers](#)

- [Testcontainers Postgres Module Reference Guide](#)

- Non-docker alternative: H2 in memory DB