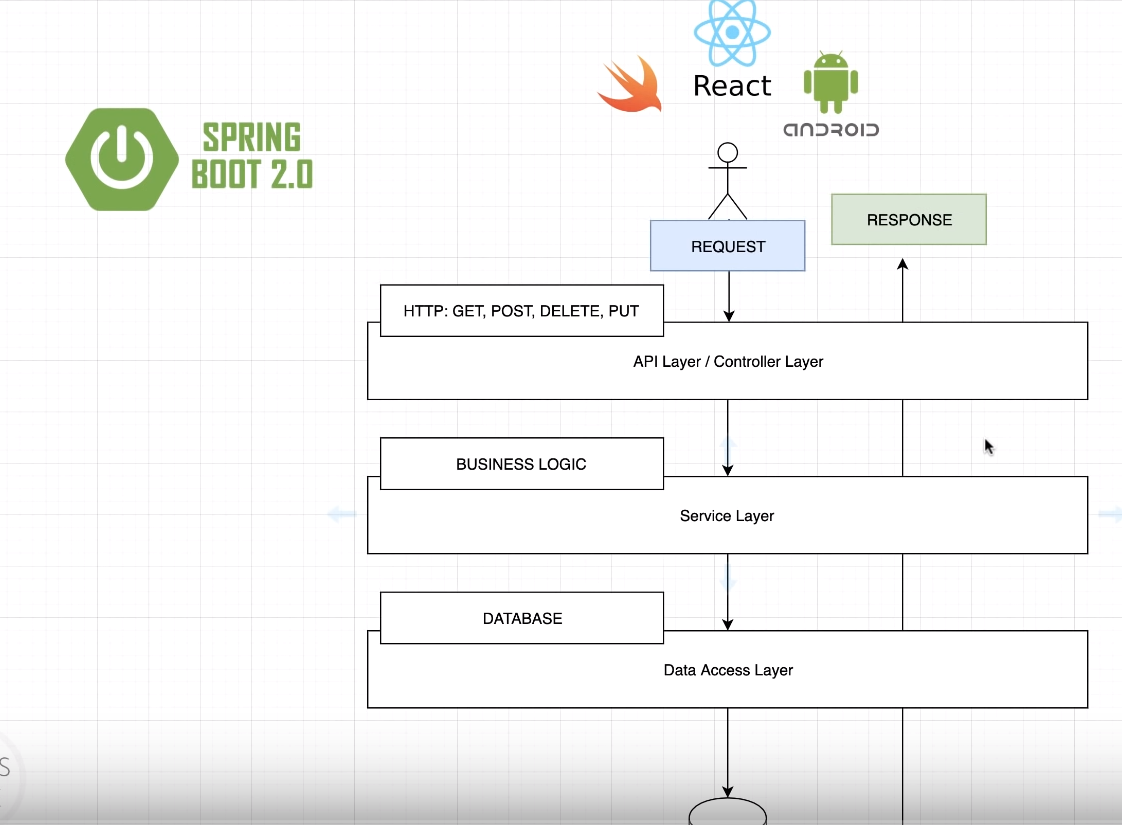
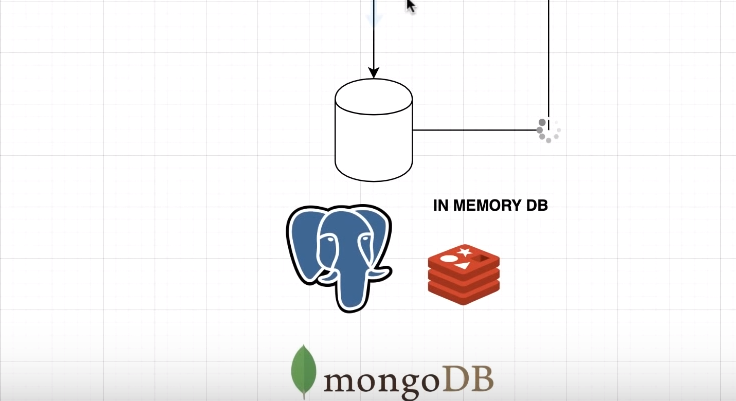
Spring Boot

Course: <https://youtu.be/vtPkZShrvXQ>





* **API Layer/Controller Layer** is where we can receive the request.
* **Service Layer** is where we handle the request and all business logic that you may have within your application.
* **Data Access Layer** is where you use DBs to perform some various credit operations.

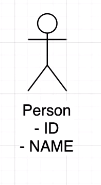
**Go for the spring initializer :** <https://start.spring.io/>

After initializing, we will start from bottom to top. We will create multiple packages as follows:

**(we are starting from Data access layer to all the way up)**

* com.freeCodeCamp.demo.api : where the API will live.
* com.freeCodeCamp.demo.model
* com.freeCodeCamp.demo.service
* com.freeCodeCamp.demo.dao

These packages represent the previous diagram. We will start with the model. Our model will be a person with these properties (ID & Name). So, we created **Person.class** in **model**.





Now, we will create interface called **PersonDao.I** in **dao** inwhich we will define the operations allowed or the actual contract for anyone wishes to implement this interface. One more advantage, we can later use the dependency injection to switch between implementations with just one line of code.



Now, we will create a class called “FakePersonDataAccessService” to implement our interface methods in **dao**.package.



Now, we will define the actual service in **service package** called **PersonService**

****

Now, after finising the service let’s go and implement the actual API in **api package** class called **PersonController.**

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**Up to this point,** we are having a normal JAVA classes. We are not using Spring Framework. Now let’s configure everything to start using Spring boot framework.

* Let’s start with actual person Dao (**FakePersonDataAccessService**). >> @Repository
* Service Class (PersonService) >> @Service