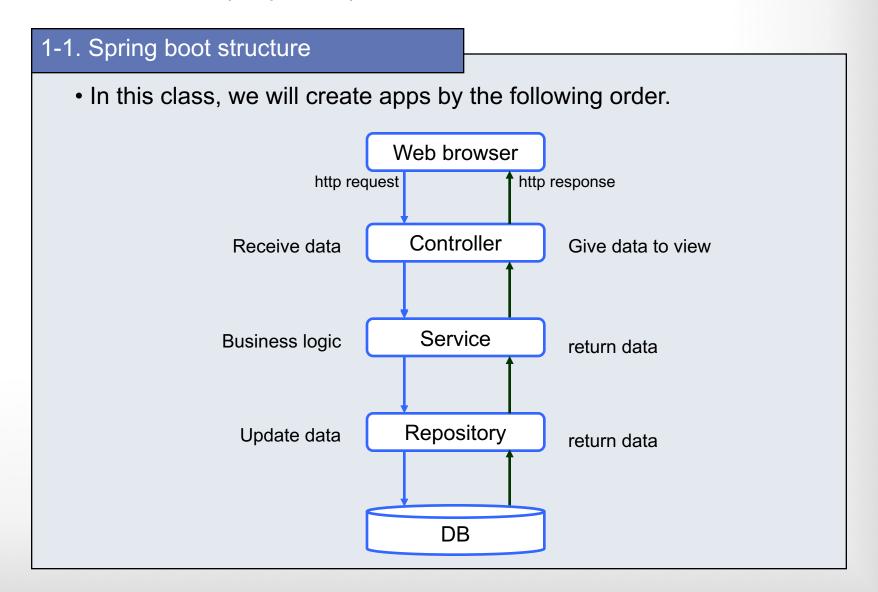


# Understanding Spring boot concept

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### Index

- 1. Hierarchical(Layered) Structure
  - 1-1. Spring boot structure
  - 1-2. Repository
  - 1-3. Service
  - 1-4. Controller
  - 1-5. View Template



#### 1-1. Spring boot structure

• Controller – Service – Repository architecture: common design pattern in application development.

Controller: Control screen transition, call Service

Service: Provide business logic

Repository: Access database

#### 1-1. Spring boot structure

#### Spring MVC

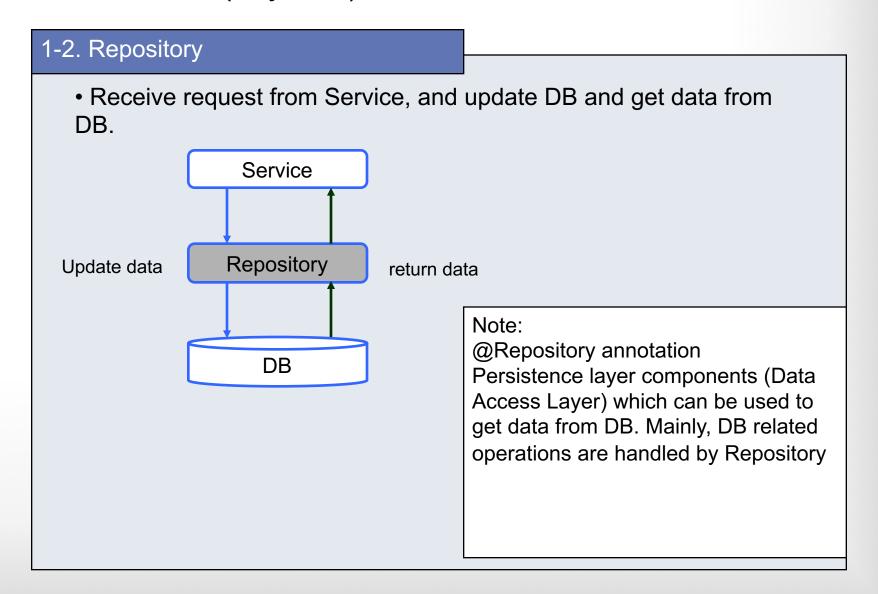
Model: Application Data, Database operation

View: Input from users, output to users, for example, thymeleaf part is Veiw

Controller is a bridge between Model and View. Controller gets data from Model and give it to View. Controller receives user input from View, and give it to Model

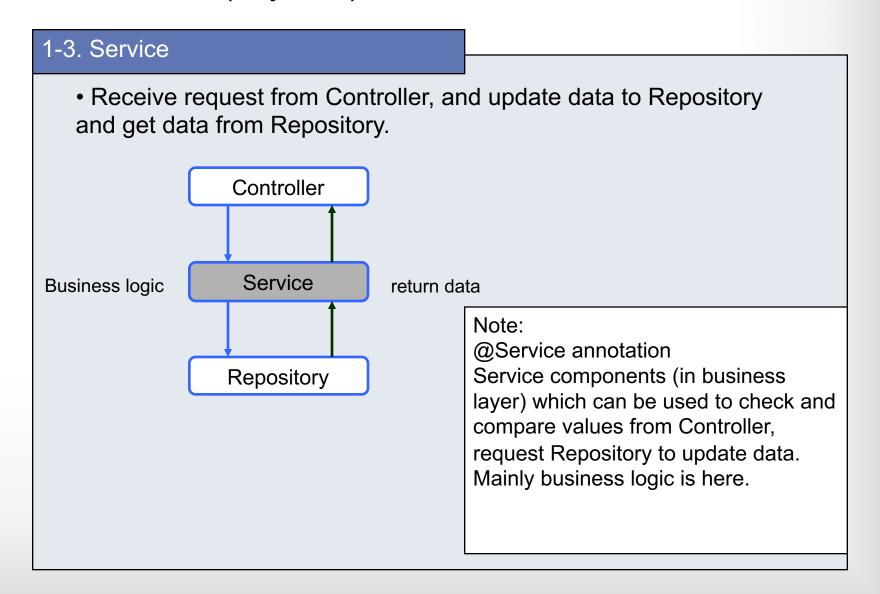
Spring MVC is created based on MVC concept, but so many libraries and complicate setting make it difficult to use.....

Spring boot is easy to use this Spring MVC Spring boot is easy to start a project



#### 1-2. Repository

• Annotate Repository interface with @Repository and create entity class with @Entity (make fields DB properties).



#### 1-3. Service

Annotate with @Service, and call methods in Repository.

```
package com.arms.domain.service;

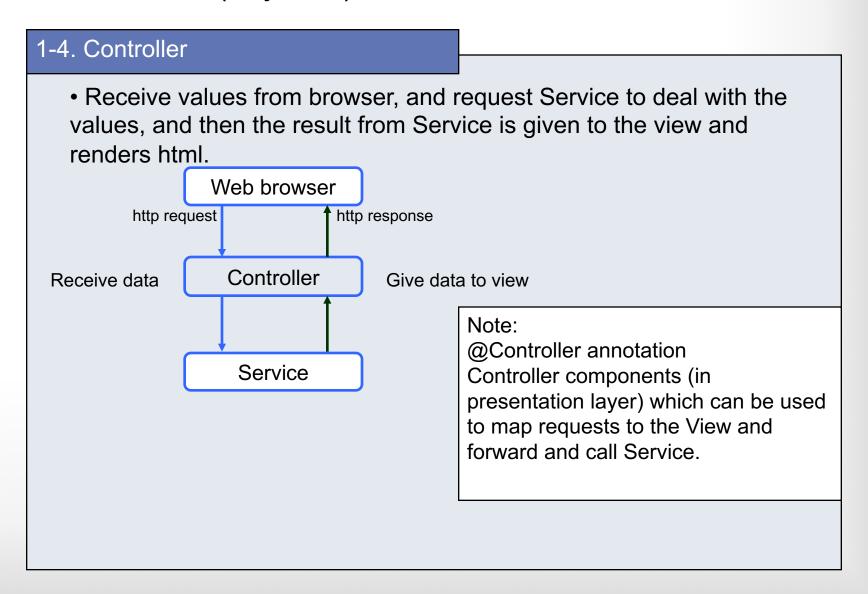
@Service annotation

@Service @Transactional
public class ProjectService {

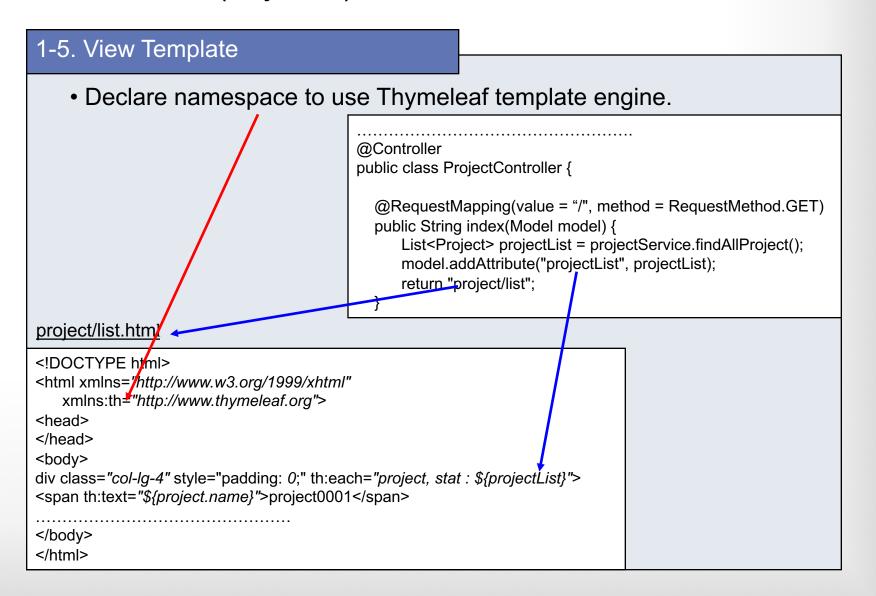
@Autowired
ProjectRepository projectRepository;

public List<Project> findAllProject() {
    return projectRepository.findAll();
}

Call methods in Repository and return requested values.
```



#### 1-4. Controller Annotate with @Controller, and map request to html package com.arms.app.project; @Controller annotation @Controller < public class ProjectController { Autowire and call methods in Service @Autowired ProjectService projectService; @RequestMapping(value = "/", method = RequestMethod.GET) Accessing "/" by GET public String index(Model model) { method is mapped to List<Project> projectList = projectService.findAllProject(); project/list.html model.addAttribute("projectList", projectList); return "project/list"; Model (interface)class is a bridge between Controller and View, result of projectList is stored in Model and give it to view.





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