CSCI5448 RobotPathLearning Team13
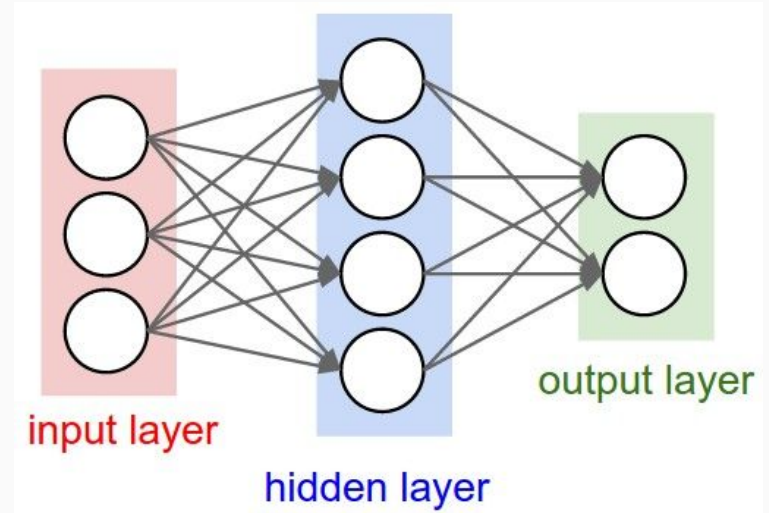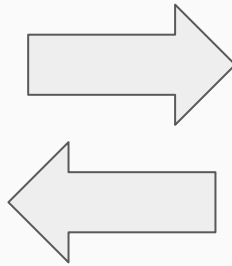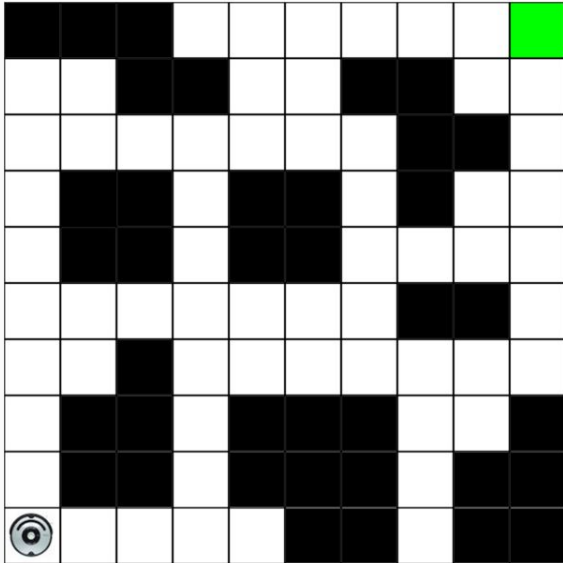
Bo Cao
Fernando Nobre
Zhongzhi Zhang

Robot Path Learning?

Use Cases

User Case ID:

UR-008

User Case Name:

Replay the path

Description:

User can let the robot move along a previously created path.

Use Cases

User Case ID:

UR-010

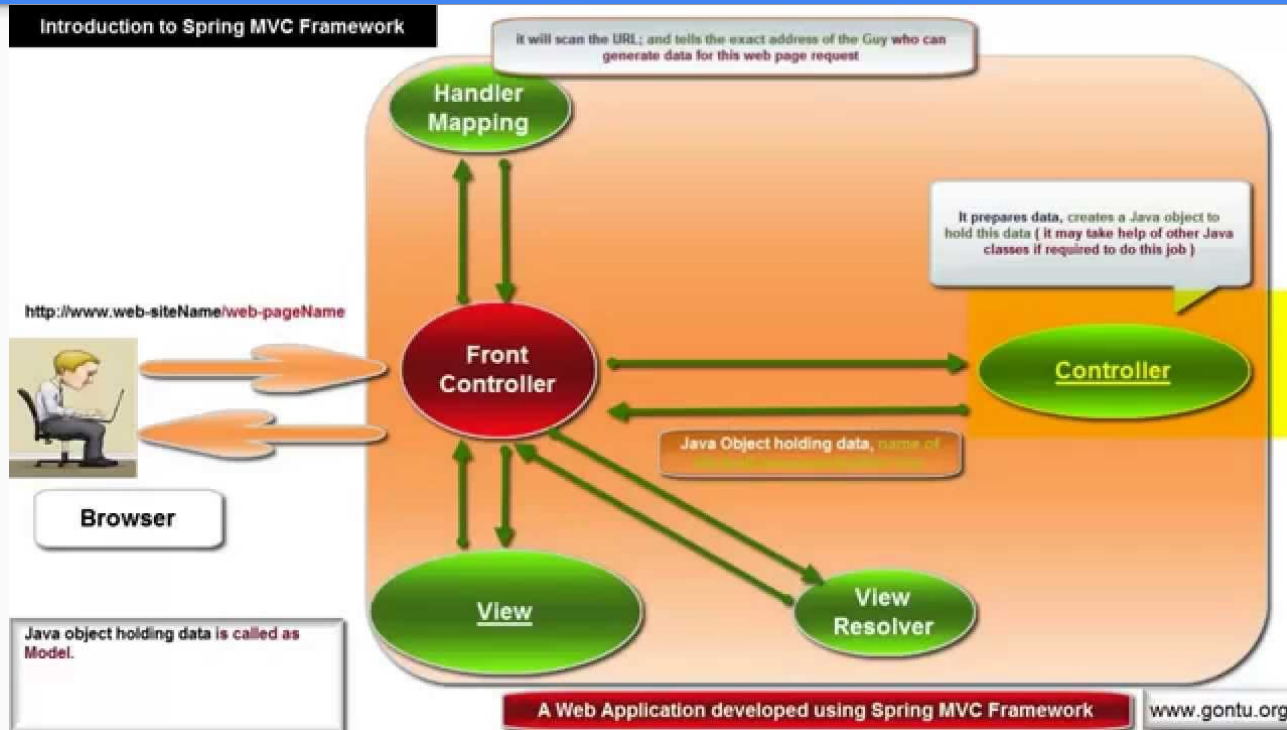**User Case Name:**

Add obstacle to map

Description:

A User can add an obstacle to the map by clicking on the map.
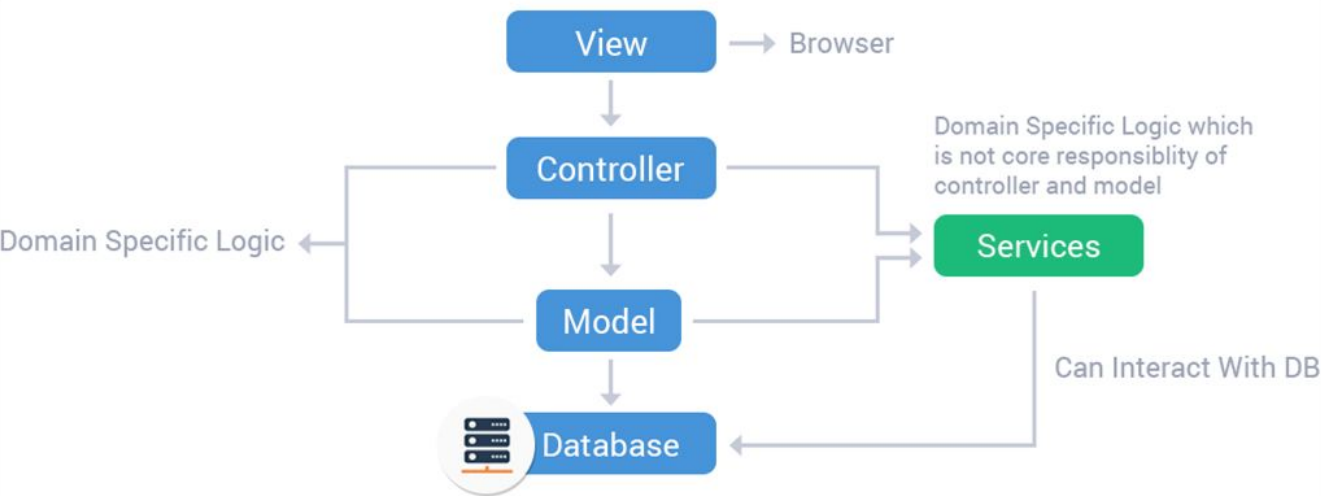
System Demo

Architecture

Architecture/Frameworks

- Spring MVC
- Hibernate/MySQL
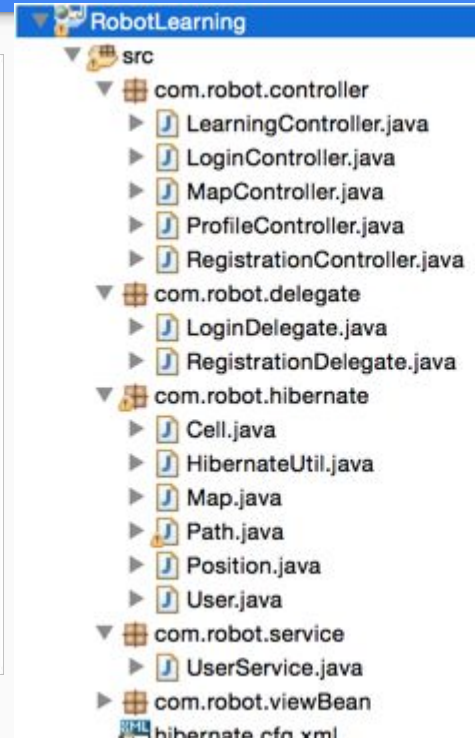- jQuery
- Bootstrap
- SiteMesh

Design Patterns

- Dependency Injection
- Service Layer
  - decoupling and maintainability
  - Writing a web API is easy
  - Controller has no business logic
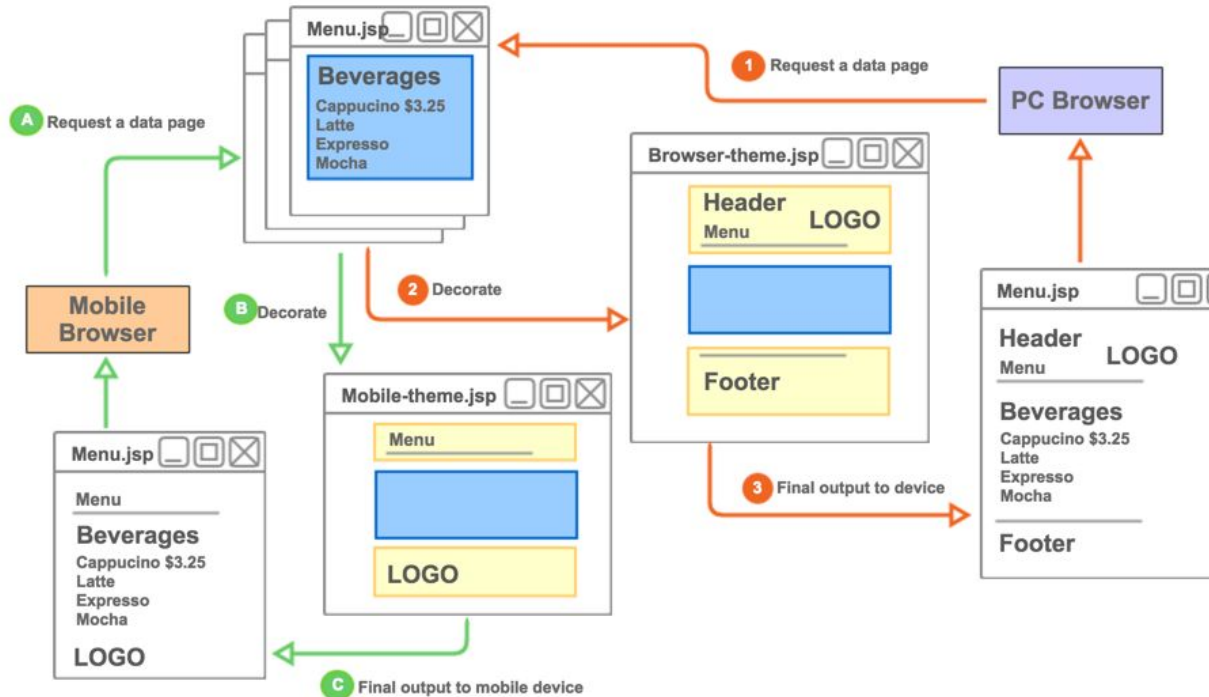 - Unit tests are easy
- Decorator
- Observer

Service Layer

MVC Architecture With Service Layer

Decorator

Demo Video

Github:

https://github.com/BryanBo-Cao/CSCI5448-RobotPathLearning-Team13/blob/master/RobotPathLearning_Video.mov

Youtube:

https://www.youtube.com/watch?v=gMJwqA66rKk