

# CSCI5448

# RobotPathLearning

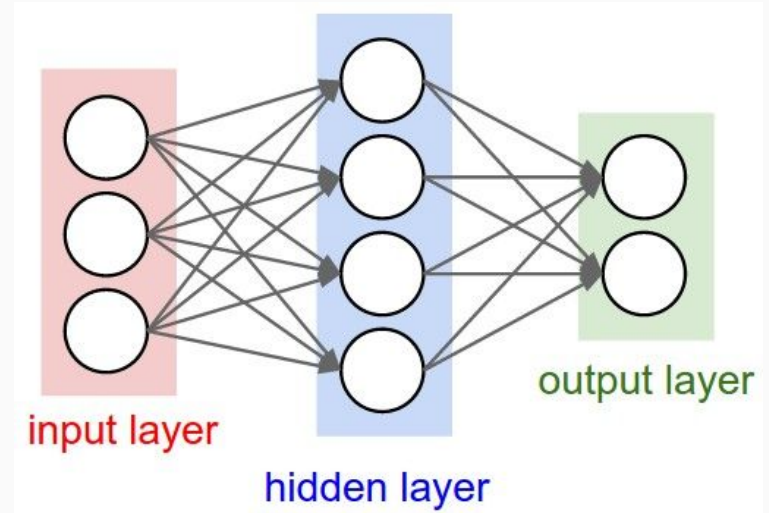
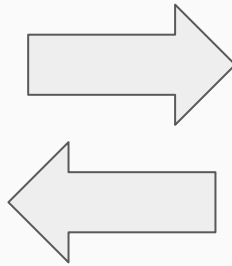
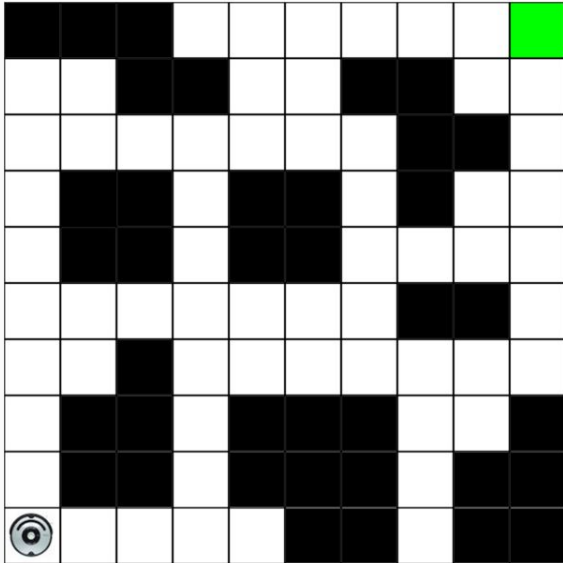
# Team13

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# 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

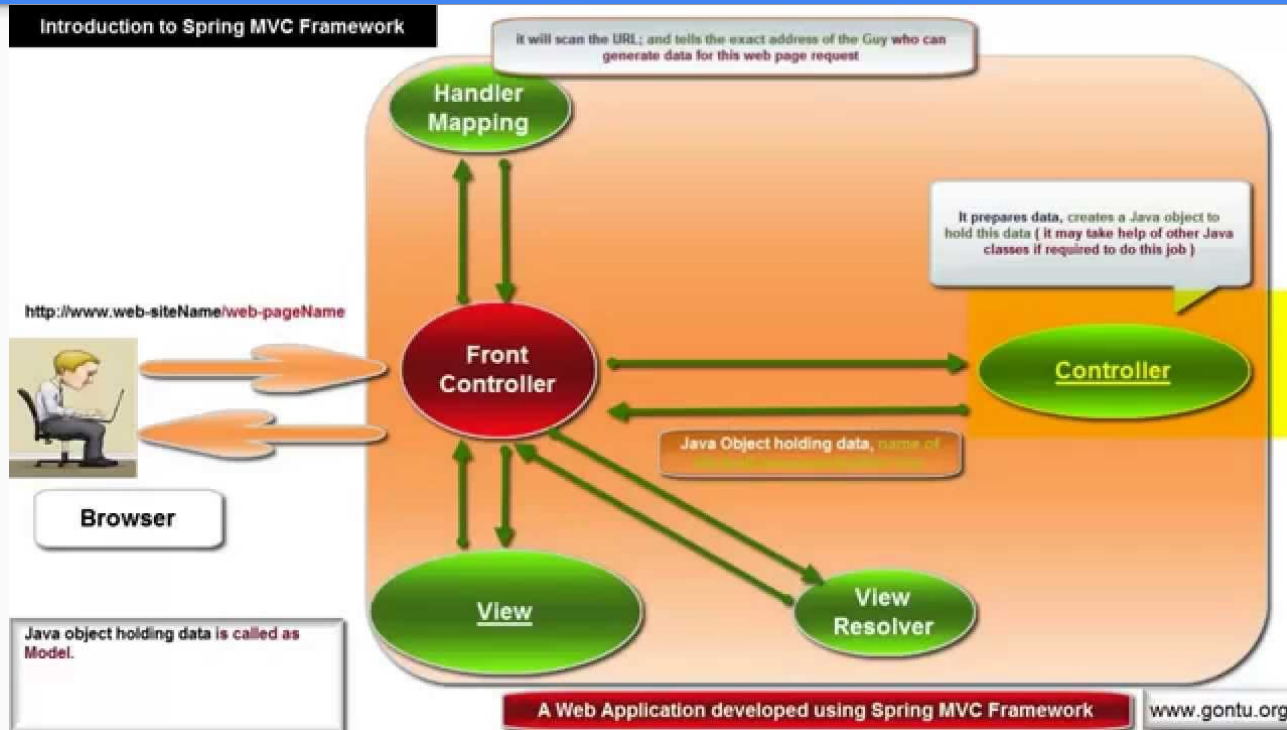
**Description:**

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

# System Demo



# Architecture



# Architecture/Frameworks

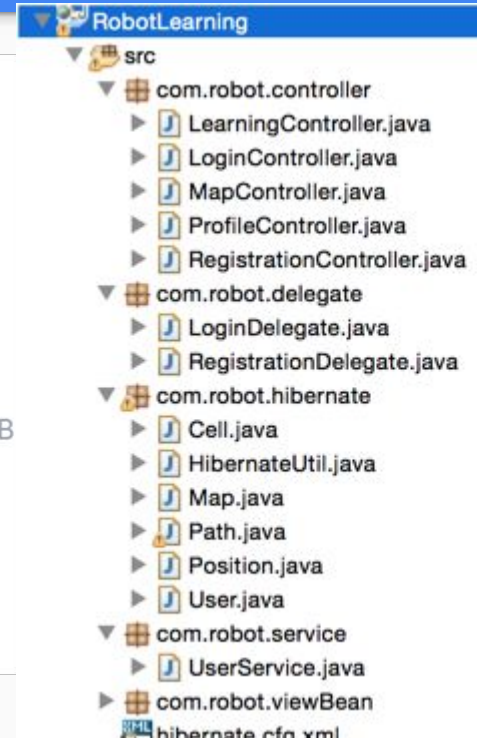
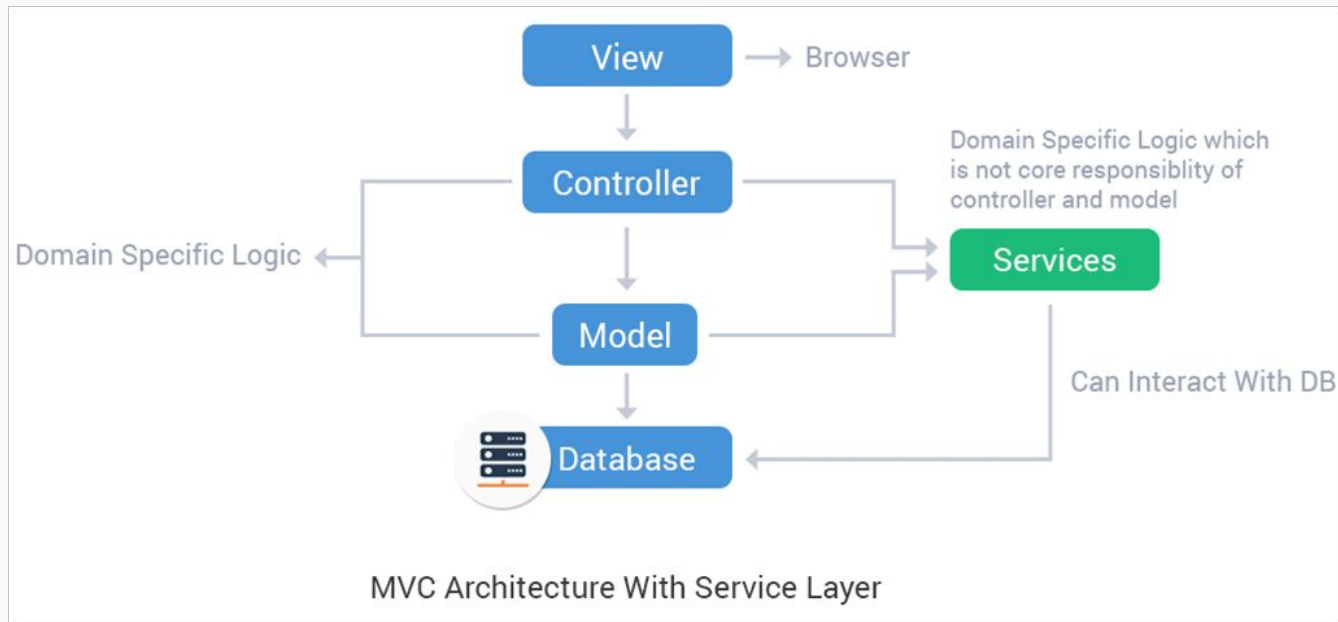
- Spring MVC
- Hibernate/MySQL
- SiteMesh
- jQuery
- Bootstrap

# Design Patterns

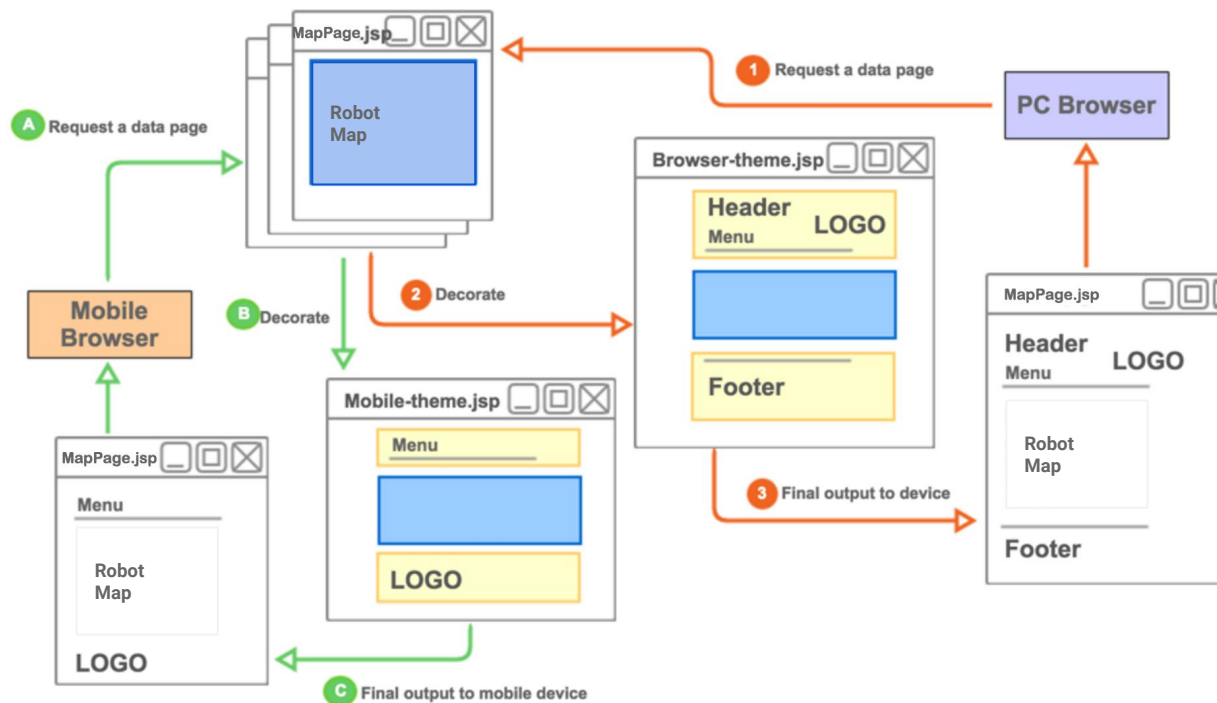
- Dependency Injection
- Service Layer
  - Decoupling and maintainability
  - Writing a web API is easy
  - Controller has no business logic
  - Unit tests are easy
- Decorator
- Observer



# Service Layer



# Decorator



# Demo Video

Github:

[https://github.com/BryanBo-Cao/CSCI5448-RobotPathLearning-Team13/blob/master/RobotPathLearning\\_Video.mov](https://github.com/BryanBo-Cao/CSCI5448-RobotPathLearning-Team13/blob/master/RobotPathLearning_Video.mov)

Youtube:

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