Design Patterns with Java Spring

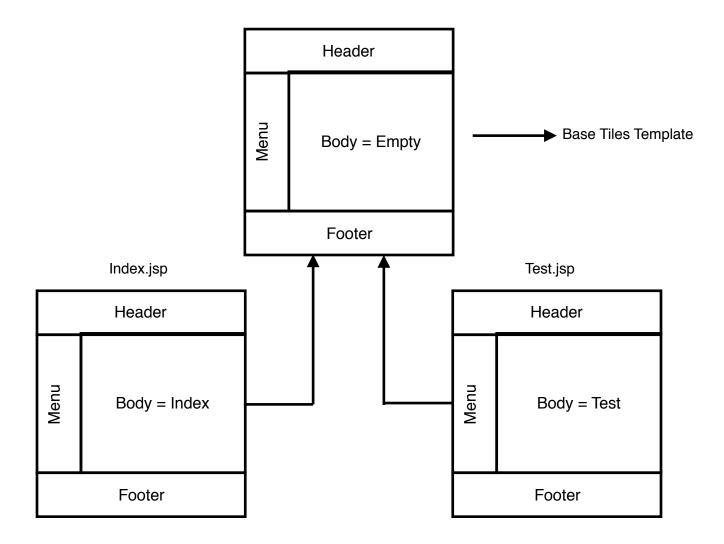
01219448 Software Patterns and Architecture

Implement a Spring Enterprise Design Pattern project with the following features :

- 1. Composite View Pattern with Apache Tile and Spring MVC
- 2. Application Controller Pattern with ViewResolver and HandlerMapping
- 3. Front Controller Pattern with DispatcherServlet
- 4. ViewHelper Pattern with Spring Tag Library or JSTL

Needed Installation:

- 1. Eclipse any version or Spring Tool Suite
- 2. Java Development Kit version 7+
- 3. Spring Library + Tile
- 4. Apache Maven (optional)



AppConfig.java : Configuration

```
package com.kundjanasith.springmvc.configuration;
import org.springframework.context.annotation.Bean;[
@Configuration
@EnableWebMvc
@ComponentScan(basePackages = "com.kundjanasith.springmvc")
public class AppConfig extends WebMvcConfigurerAdapter{
   @Bean
   public TilesConfigurer tilesConfigurer(){
        TilesConfigurer tilesConfigurer = new TilesConfigurer();
       tilesConfigurer.setDefinitions(new String[] {"/WEB-INF/views/**/tiles.xml"});
       tilesConfigurer.setCheckRefresh(true);
       return tilesConfigurer;
   }
   @Override
   public void configureViewResolvers(ViewResolverRegistry registry) {
       TilesViewResolver viewResolver = new TilesViewResolver();
       registry.viewResolver(viewResolver);
   }
    * Configure ResourceHandlers to serve static resources like CSS/ Javascript etc.
   @Override
   public void addResourceHandlers(ResourceHandlerRegistry registry) {
       registry.addResourceHandler("/static/**").addResourceLocations("/static/");
```

Mr. Kundjanasith Thonglek Student ID: 5710545023

AppInitializer.java : Configuration

```
package com.kundjanasith.springmvc.configuration;
import org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer;
public class AppInitializer extends AbstractAnnotationConfigDispatcherServletInitializer {
    @Override
    protected Class<?>[] getRootConfigClasses() {
        return new Class[] { AppConfig.class };
    }
    @Override
    protected Class<?>[] getServletConfigClasses() {
        return null;
    }
    @Override
    protected String[] getServletMappings() {
        return new String[] { "/" };
    }
}
```

AppController.java : Controller

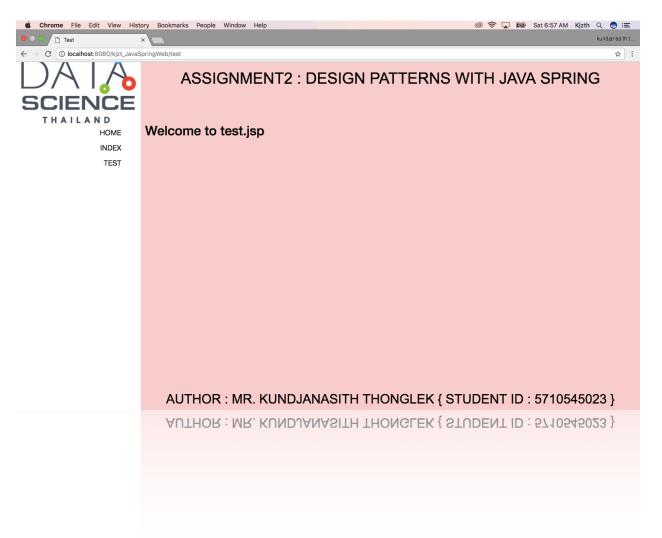
```
package com.kundjanasith.springmvc.controller;
import org.springframework.stereotype.Controller;
@Controller
@RequestMapping("/")
public class AppController {
    @RequestMapping(value = { "/"}, method = RequestMethod.GET)
    public String homePage(ModelMap model) {
        return "home";
    }
    @RequestMapping(value = { "/index"}, method = RequestMethod.GET)
    public String indexPage(ModelMap model) {
        return "index";
    }
    @RequestMapping(value = { "/test"}, method = RequestMethod.GET)
    public String testPage(ModelMap model) {
        return "test";
    }
```

Mr. Kundjanasith Thonglek Student ID: 5710545023

Result: home.jsp



Result: test.jsp



Reference information for the project

Spring Tool Suit:

- https://spring.io/tools/sts/all

Apache Tomcat:

- http://tomcat.apache.org/

Apache Tile:

- https://tiles.apache.org/