HIBERNATE

Java

INTERCEPTOR

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- Theo dõi hành động của người dùng

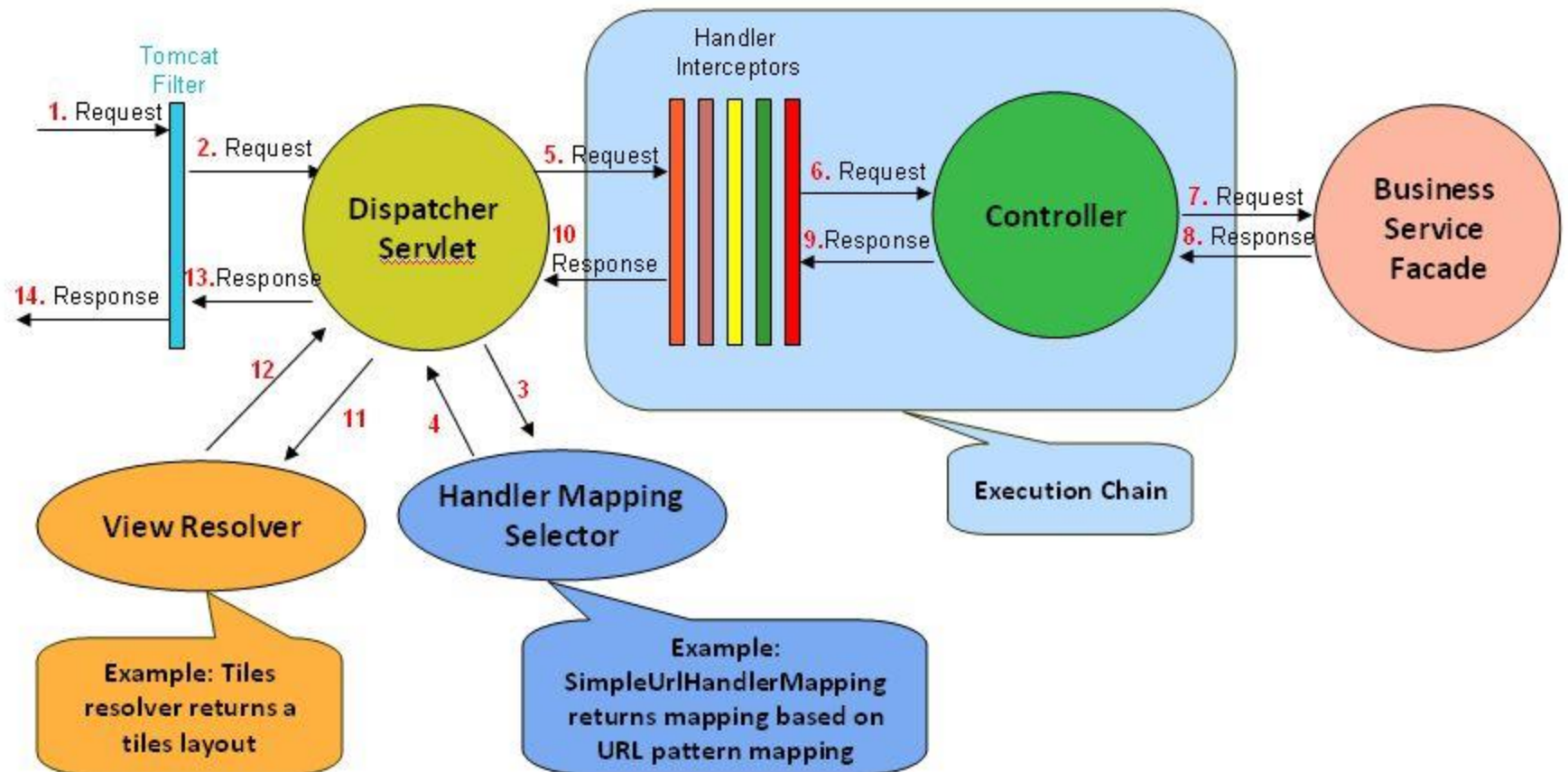- Giới thiệu Interceptor
- Xây dựng Interceptor
- Cấu hình chắn các url

```java
public class MyInterceptor extends HandlerInterceptorAdapter{

        @Override
        public boolean preHandle(HttpServletRequest request,
                        HttpServletResponse response, Object handler) throws Exception {
            return true;
        }

        @Override
        public void postHandle(HttpServletRequest request,
                        HttpServletResponse response, Object handler,
                        ModelAndView modelAndView) throws Exception {
        }

        @Override
        public void afterCompletion(HttpServletRequest request,
                        HttpServletResponse response, Object handler, Exception ex)
                        throws Exception {
        }
}
```
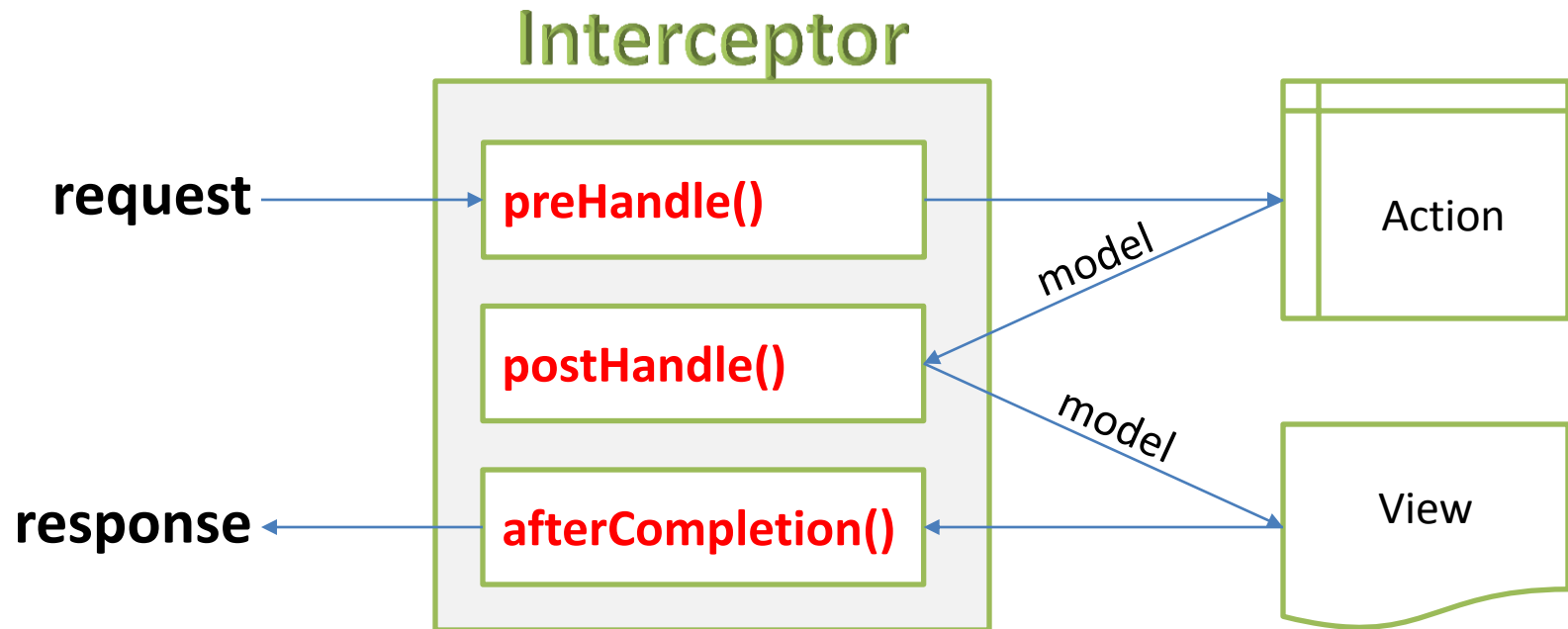
INTERCEPTOR HANDLING FLOW

Interceptor

request → preHandle() → Action

postHandle() ← model ← Action

afterCompletion() ← model ← View

response ← afterCompletion()

```java
public class LogInterceptor extends HandlerInterceptorAdapter {
    @Override
    public boolean preHandle(HttpServletRequest request, HttpServletResponse response,
                Object handler) throws Exception {
        System.out.println("LogInterceptor.preHandle()" + request.getRequestURI());
        return true;
    }
    @Override
    public void postHandle(HttpServletRequest request, HttpServletResponse response,
                Object handler, ModelAndView modelAndView) throws Exception {
        System.out.println("LogInterceptor.postHandle()" + request.getRequestURI());
    }
    @Override
    public void afterCompletion(HttpServletRequest request, HttpServletResponse response,
                Object handler, Exception ex) throws Exception {
        System.out.println("LogInterceptor.afterCompletion()" + request.getRequestURI());
    }
}
```

INTERCEPTOR CONFIGURATION

```java
@Configuration
public class InterceptorConfig implements WebMvcConfigurer {

    @Override
    public void addInterceptors(InterceptorRegistry registry) {
        registry.addInterceptor(new LogInterceptor())
                .addPathPatterns("/home/**")
                .excludePathPatterns("/home/faq");
    }
}
```

- addPathPatterns() chắn các url thỏa pattern
- excludePathPatterns() không chắn các url thỏa pattern
- ** đại diện cho mọi cấp

```java
@Component
public class AuthInterceptor extends HandlerInterceptorAdapter{
    @Override
    public boolean preHandle(HttpServletRequest request,
                        HttpServletResponse response, Object handler) throws Exception {
        String cpath = request.getContextPath();
        String acturl = request.getRequestURI().replaceAll(cpath, "");

        HttpSession session = request.getSession();

        if(session.getAttribute("user") == null) {
            session.setAttribute("acturl", acturl);
            response.sendRedirect(cpath + "/account/login");
            return false;
        }
        return true;
    }
}
```

```java
public class InterceptorConfig implements WebMvcConfigurer{
    @Autowired
    AuthInterceptor auth;

    @Override
    public void addInterceptors(InterceptorRegistry registry) {
        registry.addInterceptor(auth)
                .addPathPatterns("/account/edit",
                        "/account/change", "/account/logoff", "/admin/**")
                .excludePathPatterns("/admin/index");
    }
}
```

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