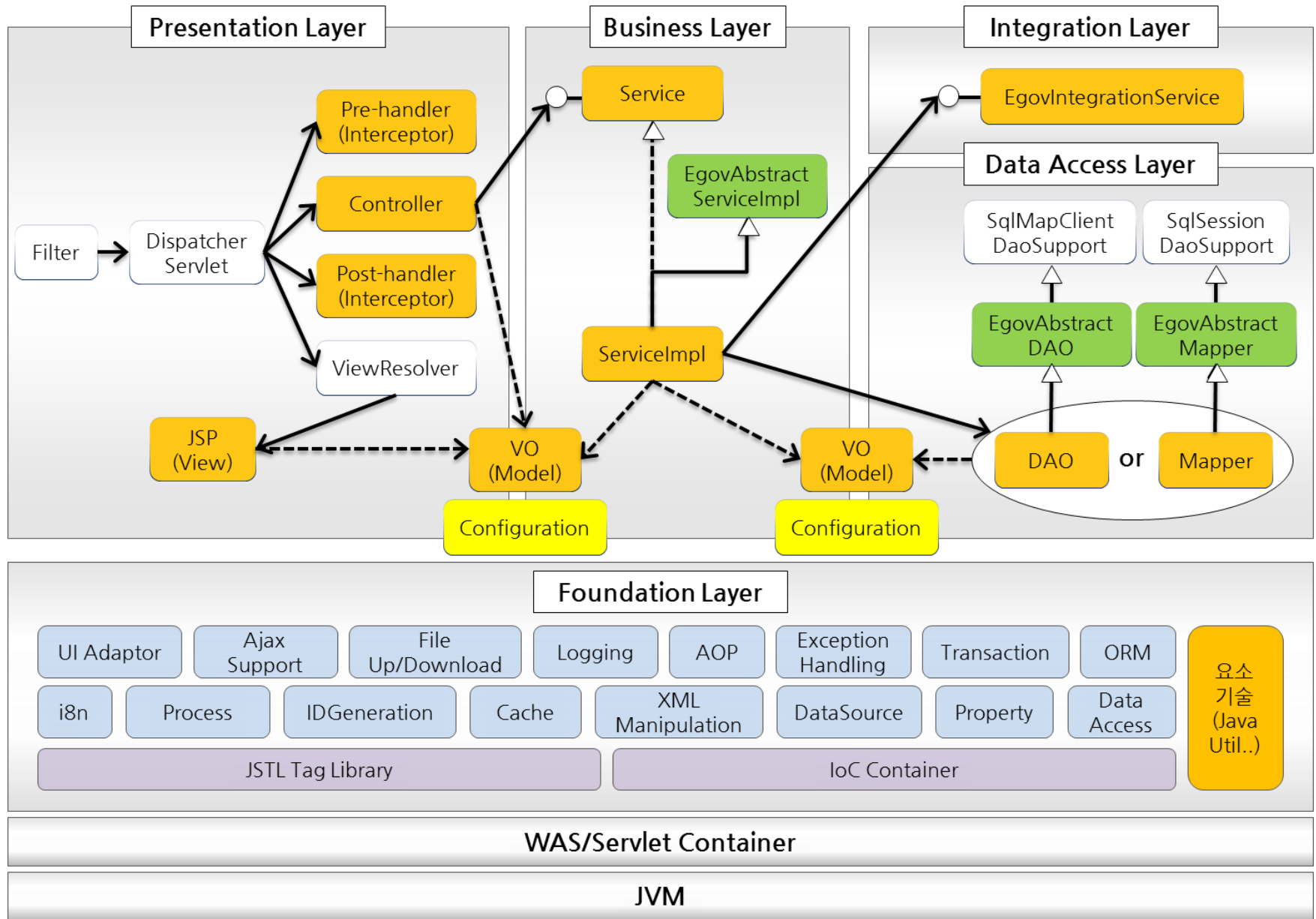
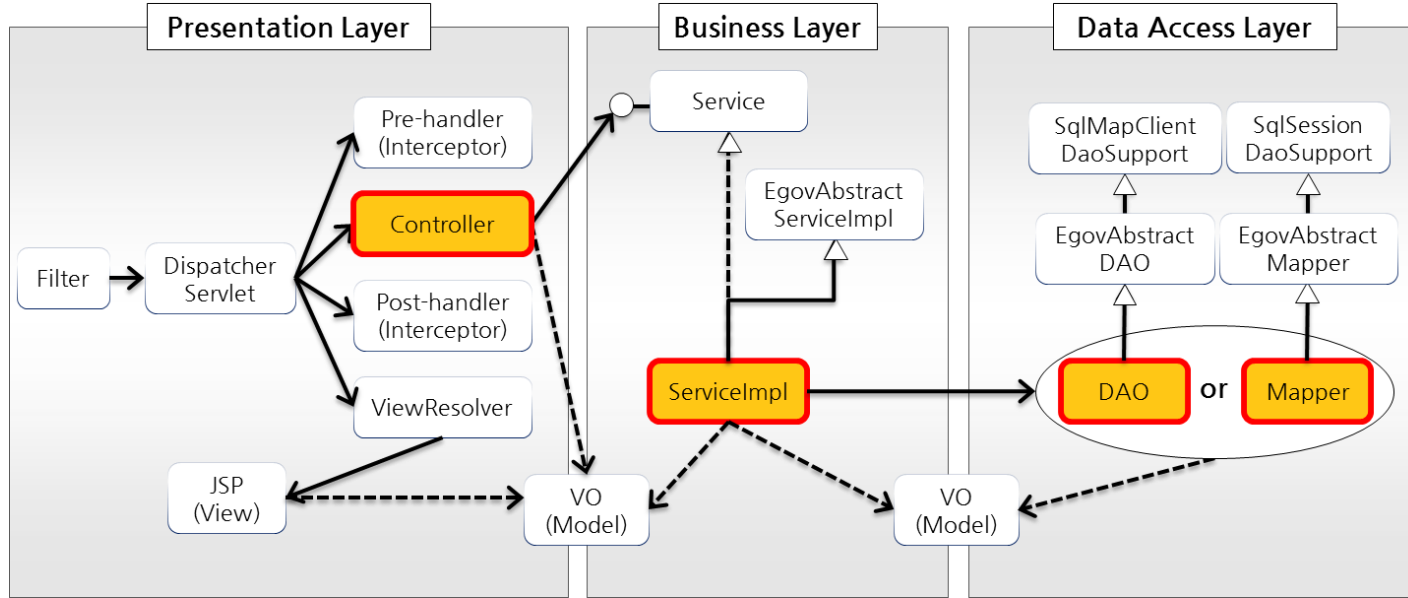


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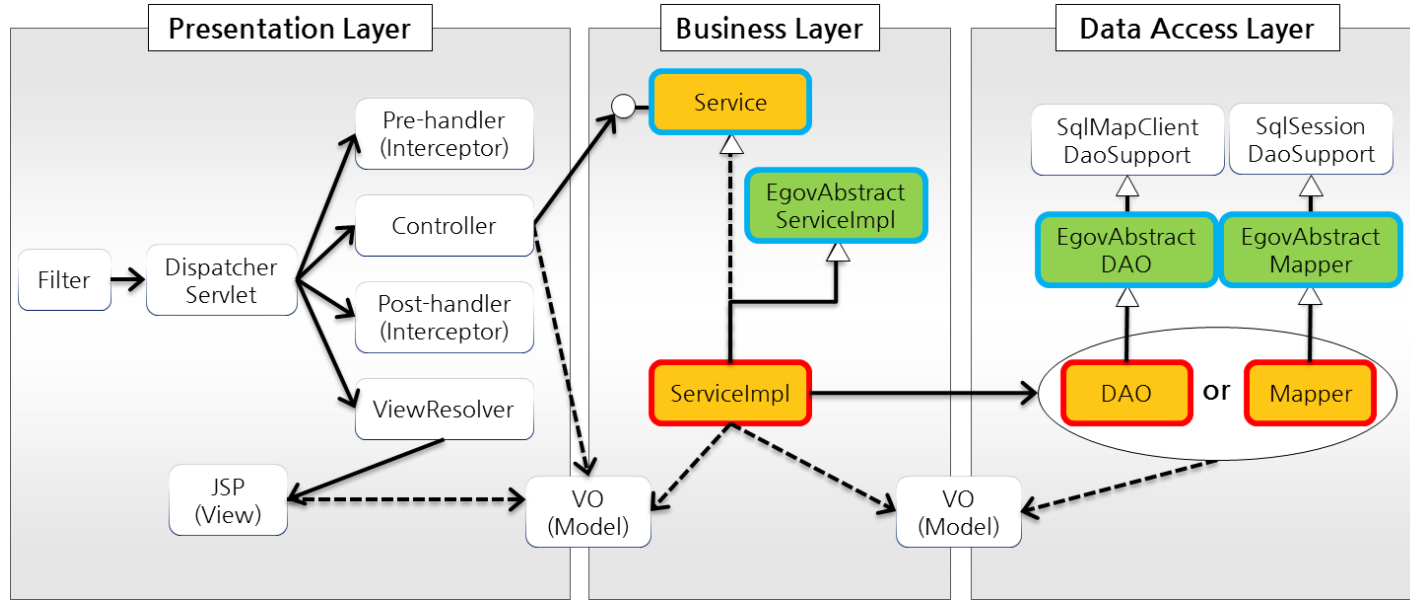


Annotation Spring MVC Layered architecture



Controller	<ul style="list-style-type: none"> • @Controller • URL Mapping @RequestMapping • View Model(business logic data) Controller
ServiceImpl	<ul style="list-style-type: none"> • @Service
DAO/Mapper	<ul style="list-style-type: none"> • @Repository • , <i>MyBatis Mapper Interface</i> @Mapper

q



ServiceImpl	<ul style="list-style-type: none"> • AbstractServiceImpl EgovAbstractServiceImpl(3.0) / , • Service
DAO/Mapper	<ul style="list-style-type: none"> • EgovAbstractDAO(iBatis) EgovAbstractMapper(MyBatis) / • MyBatis Mapper Interface , @Mapper • Hibernate/JPA Spring Data JPA , • ‘ ,

q iBatis

- EgovAbstractDAO /

```
@Repository("employeeDao")  
public class EmployeeDao extends EgovAbstractDAO { ... }
```

```
public class EgovAbstractDAO extends SqlMapClientDaoSupport { ... }
```

- **iBatis** **XML** **3가**
 - iBatis (<sqlMapConfig> ~ </sqlMapConfig>)
 - SQL (<sqlMap> ~ </sqlMap>)
 - SqlMapClientFactoryBean

q **MyBatis**

(1/2)

1) EgovAbstractMapper /

```
@Repository("employeeMapper")  
public class EmployeeMapper extends EgovAbstractMapper { ... }
```

```
public abstract class EgovAbstractMapper extends SqlSessionDaoSupport {
```

– **MyBatis** **XML** **3가**

- MyBatis (<configuration> ~ </configuration>)
- SQL (<mapper> ~ </ mapper >)
- SqlSessionFactoryBean

q MyBatis

(2/2)

2) Mapper Interface

```
@Mapper("employeeMapper")
public interface EmployeeMapper { ... }
```

– MyBatis Mapper Interface XML 47

- MyBatis (<configuration> ~ </configuration>)
- SQL (<mapper> ~ </ mapper >)
- SqlSessionFactoryBean
- **MapperConfigurer**

```
<!-- MapperConfigurer setup for MyBatis Database Layer -->
<bean class="egovframework.rte.psl.dataaccess.mapper.MapperConfigurer">
<property name="basePackage" value="          Mapper Interface" />
</bean>
```

q Spring Data JPA

- persistence store(Big Data, NoSQL)
- CrudRepository PagingAndSortingRepository interface Repository

```
public interface DepartmentRepository extends CrudRepository<Department, Long> { ... }
public interface EmployeeRepository extends PagingAndSortingRepository<Employee, Long> { ... }
```

q Hibe rnate/JPA

- DAO SessionFactory(low level) HibernateTemplate/JpaTemplate
 HibernateDaoSupport/JpaDaoSupport LocalContatinerEntityManagerFactoryBean
- LocalContatinerEntityManagerFactoryBean EntityManager

```
public class UserDAO {
    .
    @PersistenceContext
    private EntityManager entityManager;

    public void createUser(User user) throws Exception {
        entityManager.persist(user);
    }
    ...
}
```


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UI

RIA(Rich Internet Application)가

UI Adaptor

RESTful

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