

0907 - 컴포넌트 스캔과 자동 의존관계 설정

- 회원 컨트롤러에 의존성 추가

MemberService에 @Service/@Autowired 추가

```
package hello.hello_spring.service;

import hello.hello_spring.domain.Member;

import hello.hello_spring.repository.MemberRepository;
import hello.hello_spring.repository.MemoryMemberRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import java.util.List;
import java.util.Optional;

@Service
public class MemberService {

    private final MemberRepository memberRepository;

    @Autowired
    public MemberService(MemberRepository memberRepository) {
        this.memberRepository = memberRepository;
    }

    /**
     * 회원가입
     */
    public Long join(Member member) {
        //중복 회원 검증
    }
}
```

```

        validateDuplicateMember(member);
        memberRepository.save(member);
        return member.getId();
    }

    private void validateDuplicateMember(Member member) {
        memberRepository.findByName(member.getName())
            .ifPresent(m -> {
                throw new IllegalStateException("이미 존재하는 회원입니다.");
            });
    }

    /**
     * 전체 회원 조회
     */
    public List<Member> findMembers() {
        return memberRepository.findAll();
    }

    /**
     * 회원 조회
     */
    public Optional<Member> findOne(Long memberId) {
        return memberRepository.findById(memberId);
    }
}

```

MemoryMemberRepository 에 @Repository 추가

```

package hello.hello_spring.repository;

import hello.hello_spring.domain.Member;
import org.springframework.stereotype.Repository;

import java.util.*;

```

```

@Repository
public class MemoryMemberRepository implements MemberRepository {

    private static Map<Long, Member> store = new HashMap<>();
    //시퀀스
    private static long sequence = 0L;

    @Override
    public Member save(Member member) {
        member.setId(++sequence);
        store.put(member.getId(), member);
        return member;
    }

    @Override
    public Optional<Member> findById(Long id) {
        return Optional.ofNullable(store.get(id));
    }

    @Override
    public Optional<Member> findByName(String name) {
        return store.values().stream()
            .filter(member -> member.getName().equals(name))
            .findAny();
    }

    @Override
    public List<Member> findAll() {
        return new ArrayList<>(store.values());
    }

    public void clearStore(){
        store.clear();
    }

}

```

MemberController

```
package hello.hello_spring.controller;

import hello.hello_spring.service.MemberService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;

@Controller
public class MemberController {

    private final MemberService memberService;

    @Autowired
    public MemberController(MemberService memberService) {
        this.memberService = memberService;
    }

}
```

```
00 INFO 10612 --- [hello-spring] [ restartedMain] h.hello_spring.HelloSpringApplication : Starting HelloSpringApplication using Java 17.0.8 with PID 10612 (C:
00 INFO 10612 --- [hello-spring] [ restartedMain] h.hello_spring.HelloSpringApplication : No active profile set, falling back to 1 default profile: "default"
00 INFO 10612 --- [hello-spring] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-property
00 INFO 10612 --- [hello-spring] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.lev
00 INFO 10612 --- [hello-spring] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 9904 (http)
00 INFO 10612 --- [hello-spring] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
00 INFO 10612 --- [hello-spring] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.28]
00 INFO 10612 --- [hello-spring] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
00 INFO 10612 --- [hello-spring] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 777 ms
00 INFO 10612 --- [hello-spring] [ restartedMain] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page: class path resource [static/index.html]
00 INFO 10612 --- [hello-spring] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
00 INFO 10612 --- [hello-spring] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 9904 (http) with context path '/'
00 INFO 10612 --- [hello-spring] [ restartedMain] h.hello_spring.HelloSpringApplication : Started HelloSpringApplication in 1.368 seconds (process running for
```