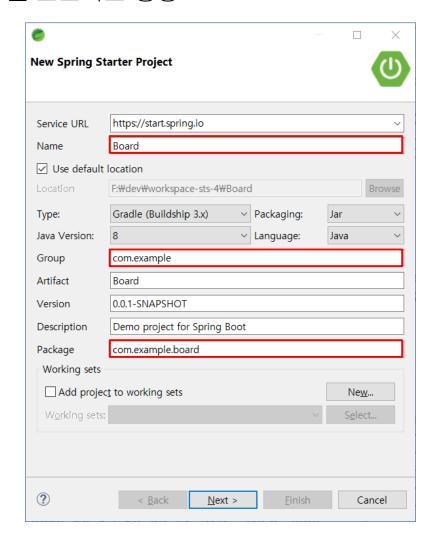
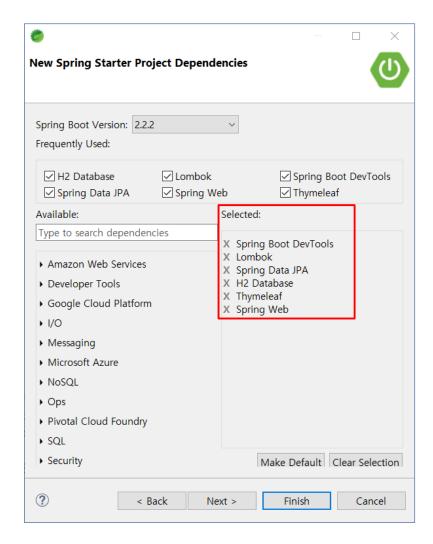
▋ 프로젝트 생성



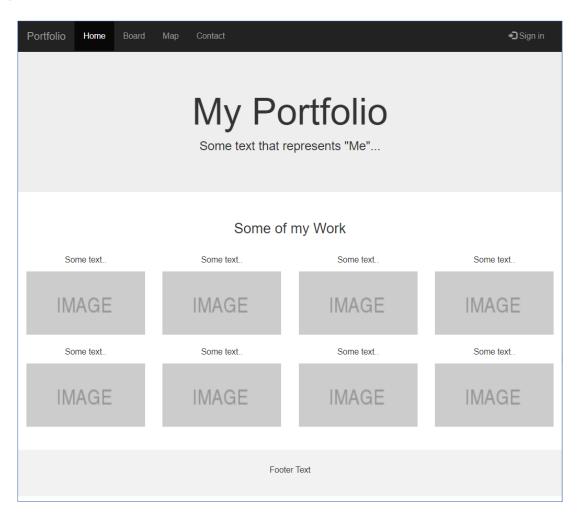


Board

- 기능
 - 회원가입, 로그인
 - 게시판
 - 작성 / 조회(목록,상세내용) / 수정 / 삭제
 - 지도
 - · 카카오 지도를 이용한 특정 위치를 기준으로 반경 10KM 이내 지점 표시
 - 이메일 발송
 - 구글 SMTP를 이용한 건의사항/의견 제출

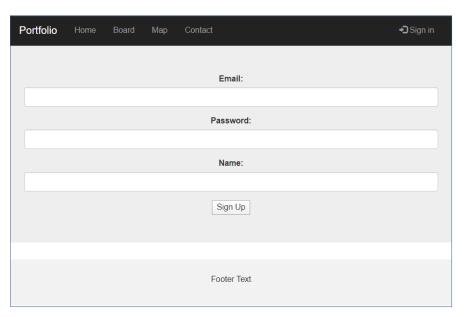
Board

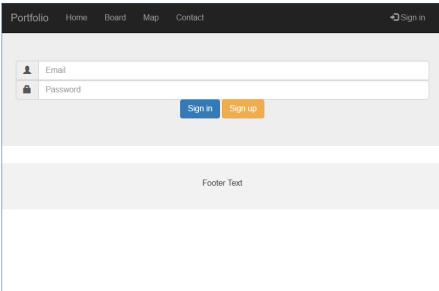
Home



■ Board

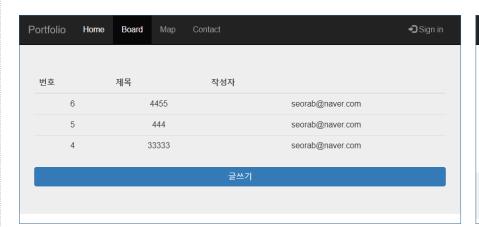
● 회원가입 / 로그인

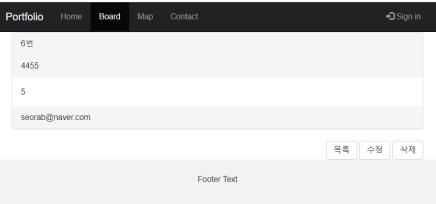


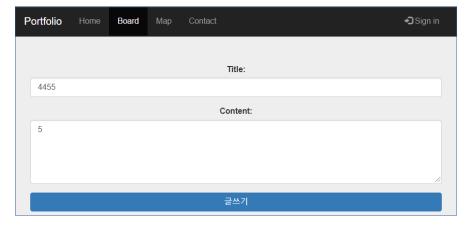


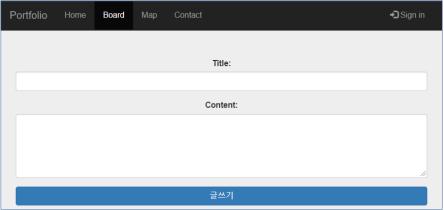
Board

● 게시판



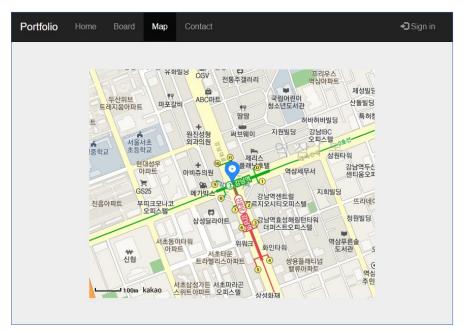


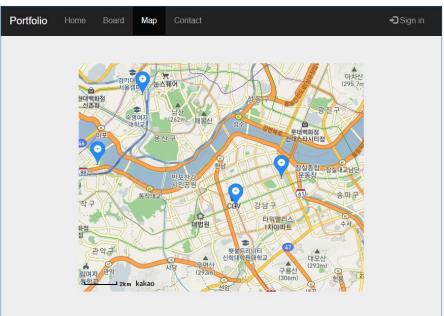




Board







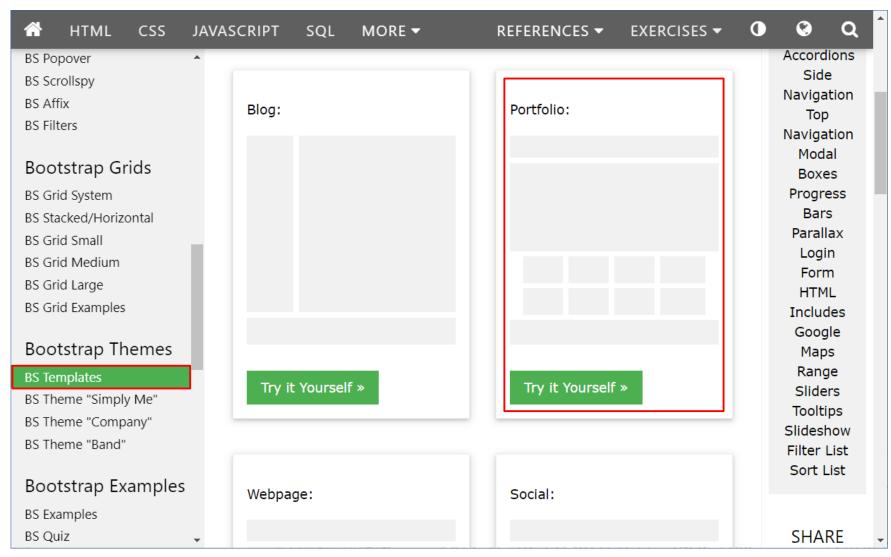
- Board
 - 이메일 발송

Р	ortfolio	Home	Board	Мар	Contact	→⊃ Sign in	
						Email:	
						Comment:	
						발송 	
						Footer Text	

- Home
 - 필요 기술 / 라이브러리
 - HTML Design (bootstrap)
 - Controller
 - Thymeleaf : 공통(중복) 레이아웃 처리

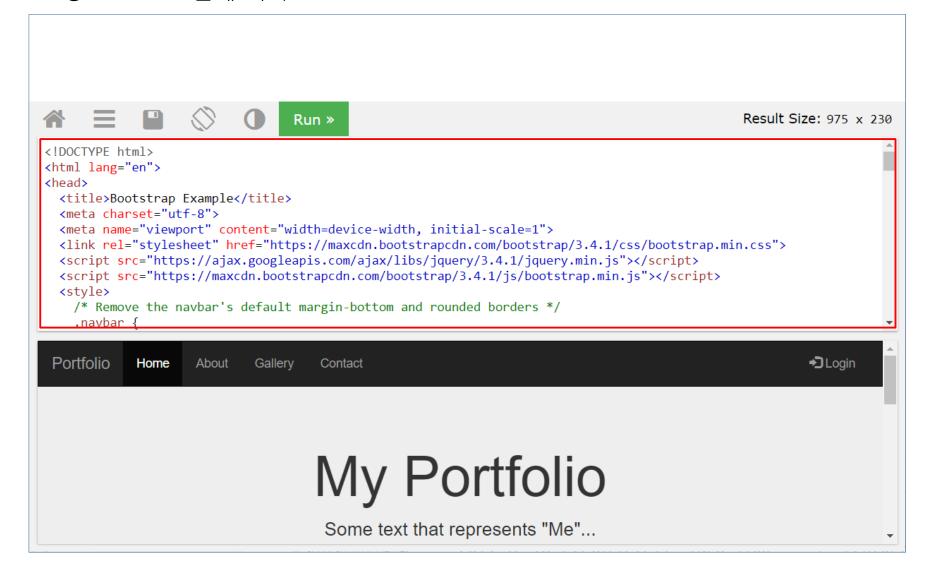
Home

https://www.w3schools.com → Learn Bootstrap → B3 → BS Templates



Home

● 소스코드 전체 복사



Home

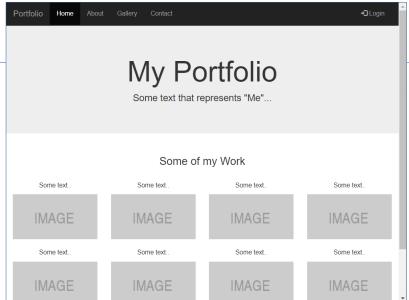
templates/index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <title>Bootstrap Example</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
<nav class="navbar navbar-inverse">
 </nav>
<div class="jumbotron">
 <div class="container text-center">
 </div>
</div>
</body>
</html>
```

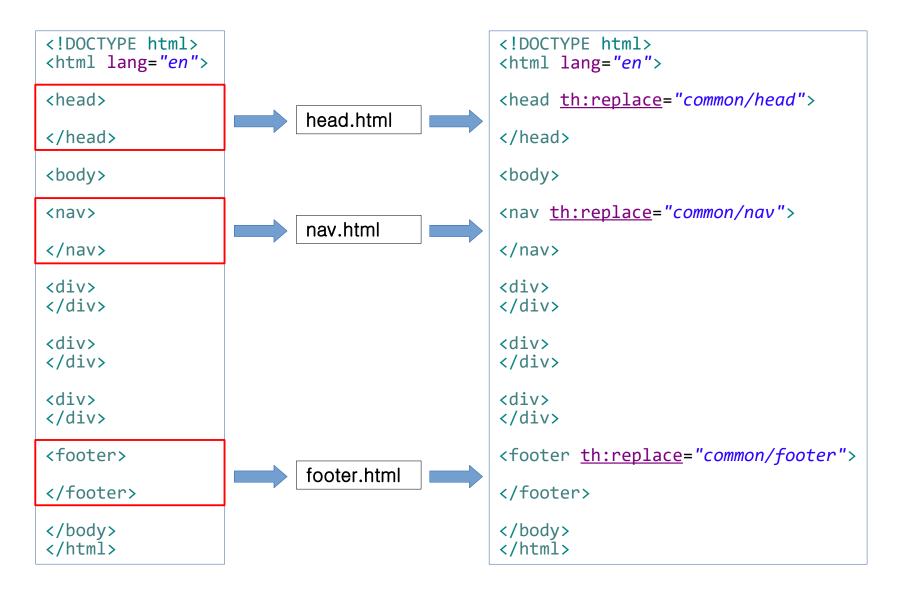
- Home
 - controller/HomeController.java

```
package com.example.board.controller;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;

@Controller
public class HomeController {
     @GetMapping({"/", "/home"})
     public String index() {
         return "index";
     }
}
```



■ Template 공통 레이아웃 분리



- Template 공통 레이아웃 분리
 - templates/common/head.html

```
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="...">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js">
  </script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js">
  </script>
  <style>
    /* Remove the navbar's default margin-bottom and rounded borders */
    .navbar {
      margin-bottom: 0;
      border-radius: 0;
    /* Add a gray background color and some padding to the footer */
    footer {
      background-color: #f2f2f2;
      padding: 25px;
  </style>
</head>
```

- Template 공통 레이아웃 분리
 - templates/common/nav.html

```
<nav class="navbar navbar-inverse">
 <div class="container-fluid">
   <div class="navbar-header">
     <button type="button" class="navbar-toggle" data-toggle="collapse"</pre>
           data-target="#myNavbar">
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
     </button>
     <a class="navbar-brand" href="/">Portfolio</a>
   </div>
   <div class="collapse navbar-collapse" id="myNavbar">
     <a href="/home">Home</a>
      <a href="/board">Board</a>
      <a href="/map">Map</a>
      <a href="/contact">Contact</a>
     li>
          <a href="#">
           <span class="glyphicon glyphicon-log-in"></span>
           Sign in
          </a>
        </div>
 </div>
</nav>
```

- Template 공통 레이아웃 분리
 - templates/common/footer.html

```
<footer class="container-fluid text-center">
  Footer Text
</footer>
```

templates/index.html

```
<!DOCTYPE html>
<html lang="en">
<head th:replace="common/head">
</head>
<body>
<nav class="navbar navbar-inverse" th:replace="common/nav">
</nav>
...

<footer class="container-fluid text-center" th:replace="common/footer">
</footer>
</body>
</html>
```

- 회원가입
 - 필요 기술 / 라이브러리
 - HTML Design (bootstrap)
 - Database (H2)
 - JPA
 - Model (@Entity)
 - · ModelRepository (JpaRepository 상속)

application.properties 설정 필요

- Controller
- Thymeleaf

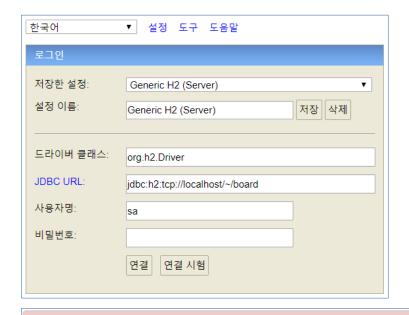
■ 회원가입

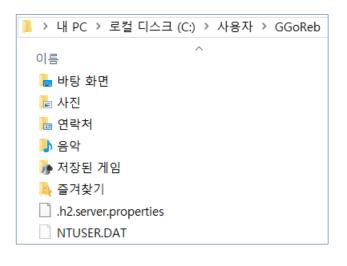
templates/signup.html

```
<div class="jumbotron">
  <div class="container text-center">
    <form method="post" action="/signup">
      <div class="form-group">
        <label for="email">Email:</label>
        <input type="text" class="form-control" id="email" name="email"</pre>
      </div>
      <div class="form-group">
        <label for="pwd">Password:</label>
        <input type="password" class="form-control" id="pwd" name="pwd">
      </div>
      <div class="form-group">
        <label for="name">Name:</label>
        <input type="text" class="form-control" id="name" name="name">
      </div>
      <button class="btn btn-primary btn-block" id="signup">Sign Up</button>
    </form>
  </div>
</div>
                                                             Email:
                                                            Password:
<script>
  $("#signup").click(function() {
                                                             Name:
       $("form").submit();
       return false:
                                                             Sign Up
</script>
```

■ 회원가입

- H2 Database 실행 및 데이터베이스 생성
 - 원활한 관리를 위해서 Server 모드로 접속해야 하지만 database 파일이 미리 생성되어 있어야 됨

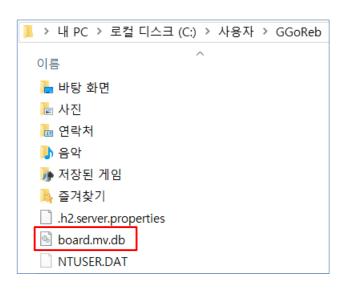




Database "C:/Users/GGoReb/board" not found, either pre-create it or allow remote database creation (not recommended in secure environments) [90149-200] 90149/90149 (도움말)

- 회원가입
 - H2 Database 실행 및 데이터베이스 생성
 - Embedded로 접속 시 database 파일 자동 생성







- 회원가입
 - application.properties
 - DataSource

jdbc:h2:~/db명(embedded) → jdbc:h2:tcp://localhost/~/db명

```
# datasource
spring.datasource.url=jdbc:h2:tcp://localhost/~/board
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.username=sa
spring.datasource.password=

# jpa
spring.jpa.hibernate.ddl-auto=update
spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
spring.jpa.show-sql=true
```

- 회원가입
 - model/User.java

```
package com.example.board.model;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import lombok.Data;

@Entity
@Data
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private long id;
    private String email;
    private String pwd;
    private String name;
}
```

repository/UserRepository.java

```
package com.example.board.repository;
import org.springframework.data.jpa.repository.JpaRepository;
import com.example.board.model.User;
public interface UserRepository extends JpaRepository<User, Long> {
}
```

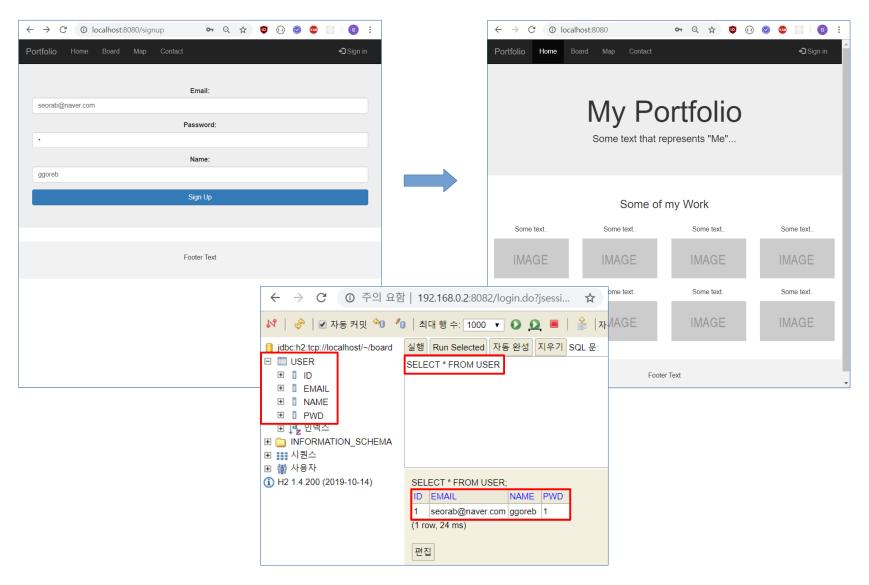
■ 회원가입

controller/UserController.java

```
package com.example.board.controller;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;
import com.example.board.model.User;
import com.example.board.repository.UserRepository;
@Controller
public class UserController {
    @Autowired
    UserRepository userRepository;
    @GetMapping("/signup")
    public String signup() {
         return "signup";
    @PostMapping("/signup")
    public String signupPost(@ModelAttribute User user) {
         userRepository.save(user);
         return "redirect:/";
```

■ 회원가입

http://localhost:8080/signup



- 로그인
 - 필요 기술 / 라이브러리
 - HTML Design (bootstrap)
 - Database (H2)
 - JPA
 - · Model (@Entity)
 - · ModelRepository (JpaRepository 상속)
 - Controller
 - Thymeleaf

로그인

templates/signin.html

```
<div class="jumbotron">
  <div class="container text-center">
    <form method="post" action="/signup">
      <div class="form-group">
        <label for="email">Email:</label>
        <input type="text" class="form-control" id="email" name="email"</pre>
      </div>
      <div class="form-group">
        <label for="pwd">Password:</label>
        <input type="password" class="form-control" id="pwd" name="pwd">
      </div>
      <button class="btn btn-primary btn-block" id="signin">Sign in</button>
    </form>
  </div>
</div>
<script>
  $("#signin").click(function() {
       $("form").submit();
                                           Email
       return false:
                                           Password
  });
                                                             Sign in
</script>
```

로그인

repository/UserRepository.java

```
package com.example.board.repository;
import org.springframework.data.jpa.repository.JpaRepository;
import com.example.board.model.User;

public interface UserRepository extends JpaRepository<User, Long> {
    public User findByEmailAndPwd(String email, String pwd);
}
```

controller/UserController.java

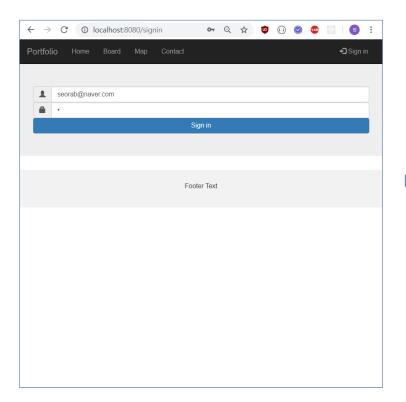
```
@Autowired
HttpSession session;

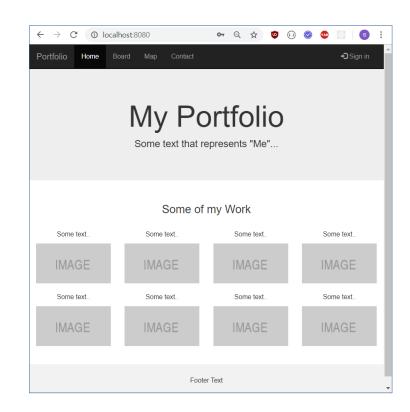
@GetMapping("/signin")
public String signin() {
    return "signin";
}

@PostMapping("/signin")
public String signinPost(@ModelAttribute User user) {
    User dbUser = userRepository.findByEmailAndPwd(user.getEmail(), user.getPwd());
    if(dbUser != null) {
        session.setAttribute("user_info", dbUser);
    }
    return "redirect:/";
}
```

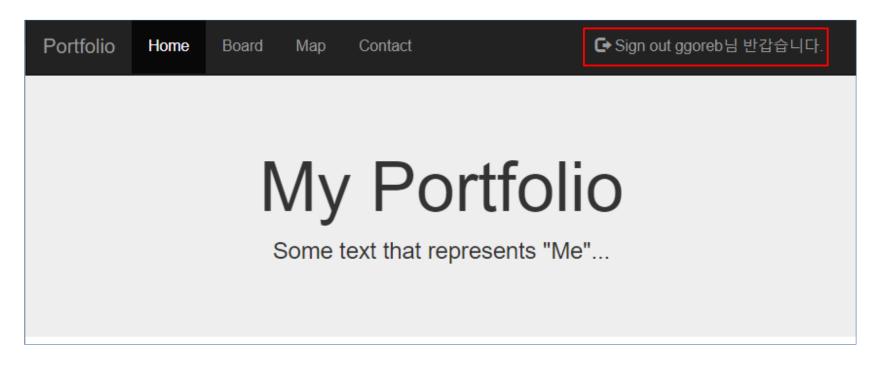
로그인

http://localhost:8080/signin





- session
 - 로그인 후 nav에 사용자 정보 출력



- 로그아웃 시 session에 저장된 정보 삭제
- Thymeleaf session 표현
 - \${session.세션저장명}

session

templates/common/nav.html

```
<nav class="navbar navbar-inverse">
 <div class="container-fluid">
  <div class="collapse navbar-collapse" id="myNavbar">
    <a href="/home">Home</a>
     <a href="/board">Board</a>
     <a href="/map">Map</a>
     <a href="/contact">Contact</a>
    <a href="/signin">
        <span class="qlyphicon qlyphicon-log-in"></span>
       Sign in
      </a>
     <a href="/signout">
        <span class="qlyphicon qlyphicon-log-out"></span>
        Sign out [[${session.user_info.name} + '님 반갑습니다.']]
      </a>
     </div>
 </div>
</nav>
```

- session
 - controller/UserController.java

```
@GetMapping("/signout")
public String signout() {
    session.invalidate();
    return "redirect:/";
}
```

