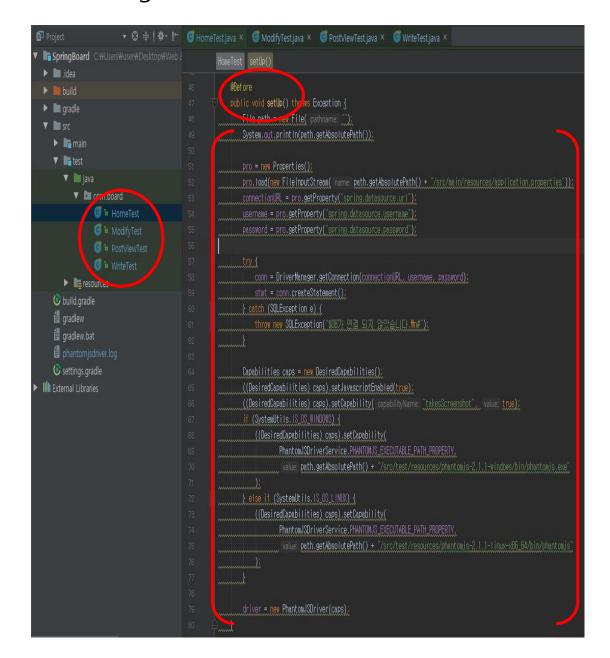
캡스톤 디자인 2 코드 아카데미 중간발표

1. Refactoring

Refactoring 1 – 코드 중복 제거 및 성능 향상



```
Project
▼ Name Board_Spring [SpringBoard] C:#Users#user
                                                      ControllerTest
                                                         @BeforeClass
  ▶ idea
                                                          public static void setUpBeforeClass() prows Exception {
  build
                                                             File path = new File( path anne """
  ▶ ■ gradle
  ▼ ■ src
     ▶ Immain
     ▼ litest
                                                             pro.load(new FileInputStream( name: path.getAbsolutePath() + "/src/main/resources/application.properties"));
        ▼ liava
                                                             connectionURL = pro.getProperty("spring.datasource.url");
           V Com board
                                                             username = pro.getProperty("spring.datasource.username");
                                                             password = pro.getProperty("spring.datasource.password"))
                 6 € ControllerTest
        ▶ II≣ resourc
                                                                 conn = DriverManager.getConnection(connectionURL, username, password);
     gradlew
                                                                 stmt = conn.createStatement();
     gradlew.bat
                                                             } catch (SQLException e) {
    f phantomisdriver.log
                                                                 throw new SOLException("$DB가 연결 되지 않았습니다.\#h#");
    © settings.gradle
 III External Libraries
                                                              Capabilities caps = new DesiredCapabilities();
                                                              ((DesiredCapabilities) caps).setJavascriptEnabled(true);
                                                              ((DesiredCapabilities) caps).setCapability( capabilityName: "takesScreenshot", value true);
                                                              if (SystemUtils.IS_OS_WINDOWS) {
                                                                 ((DesiredCapabilities) caps).setCapability(
                                                                         PhantomJSDriverService.PHANTOMJS EXECUTABLE PATH PROPERTY.
                                                             } else if (SystemUtils.IS_OS_LINUX) {
                                                                 ((DesiredCapabilities) caps).setCapability(
                                                                        PhantomJSDriverService.PHANTOMJS_EXECUTABLE_PATH_PROPERTY
                                                              driver = new PhantomJSDriver(caps);
```

Refactoring 2 - 변수명 규칙(camelCase)

```
app/controllers/applicants_controller.rb
... ... @@ -1,6 +1,6 @@
         class ApplicantsController < ApplicationCo</pre>
        - before_action :set_applicant, only: [:sh
        - before_action :set_docker, only: [:updat
     2 + before_action :setApplicant, only: [:shc
          before action :setDocker, only: [:update
           def index
            @applicants = Applicant.all
... @@ -34,12 +34,12 @@ def building
 34 34
             require 'timers'
35 35
             timers = Timers::Group.new
36 36
37 -
             paused_timer = timers.every(7) { puts
    37 +
             pausedTimer = timers.every(7) { puts '
38 38
39 -
             paused_timer.resume
    39 +
             pausedTimer.resume
40 40
             10.times { timers.wait } # will fire t
41 41
             @docker = get_docker @applicant.id
42 -
    42 +
             @docker = getDocker @applicant.id
43 43
 44 44
             @docker.delete(force: true)
 45 45
... @@ -52,7 +52,7 @@ def building
52 52
             render :show
53 53
           end
54 54
        - def get docker(id)
          def getDocker(id)
 56 56
             hogin
```

Refactoring 2 – 변수명 규칙(camelCase)

```
29 app/assets/javascripts/challenges.coffee
 $ 00 -3,14 +3,14 00
  3 # You can use CoffeeScript in this file: http://coffeescript.org/
                                                                                                               # You can use CoffeeScript in this file: http://coffeescript.org/
  4 $ cnt=1
  5 $(document).ready(->
                                                                                                               $(document).ready(->
 6 - $('.gradeTest').click(->Waitime());
                                                                                                           6 + $('.gradeTest').click(->waitTime());
 9 $(document).on('turbolinks:load', ->
                                                                                                           9 $(document).on('turbolinks:load', ->
10 - ShowScores();
 11 );
                                                                                                           11 );
13 -Showlog =->
 14 $.ajax(
                                                                                                                $.ajax(
          url: '/applicants/logging/' + $('#current_id').val(),
                                                                                                                   url: '/applicants/logging/' + $('#current_id').val(),
# @@ -20,7 +20,7 @@ Showlog =->
           if(json==""&&cnt<4)
                                                                                                                     if(json==""&&cnt<4)
            $('.result').html("don't touch button. retry - "+ cnt)
                                                                                                                      $('.result').html("don't touch button. retry - "+ cnt)
            $ cnt=cnt+1
23 - setTimeout(Showlog, 25000)
                                                                                                                      setTimeout(showLog,25000)
           else if(cnt>=4)
            $('.result').html("Time Over. Please, Restart.")
                                                                                                                      $('.result').html("Time Over. Please, Restart.")
$ @@ -30,38 +30,35 @@ Showlog =->
33 -ShowScore =->
 34 $.ajax(
         url: '/applicants/score/'+ $('#current_id').val(),
                                                                                                                   url: '/applicants/score/'+ $('#current_id').val(),
 37 dataType:'html'
                                                                                                                   dataType:'html'
         success: (json)->(
                                                                                                                   success: (json)->(
39 - $('.resultPoint').html(json+'/100 point')
                                                                                                           39 + $('.scorePoint').html(json+'/100 point')
 40 )
 41 );
43 -ShowScores =->
                                                                                                               +runAjax = ->
 44 $.ajax(
                                                                                                                $.ajax(
 46 url:'/applicants/score/'+ $('#current_id').val(),
                                                                                                                   url: '/applicants/score/'+ $('#current_id').val(),
 47 dataType:'html'
                                                                                                                   dataType:'html'
         success: (json)->(
                                                                                                                   success: (json)->(
49 - $('.scorePoint').html(json+'/100 point')
                                                                                                          51 + $('.resultPoint').html(json+'/100 point')
 50 )
 51 );
 54 -RunAjax = ->
 55 - Showlog();
56 - ShowScore();
  57 cnt=1
58 - $('.gradeTest').click(->Waitime());
                                                                                                           55 + $('.gradeTest').click(->waitTime());
60 -Waitime =->
 61 $('.result').html('Ready');
                                                                                                                $('.result').html('Ready');
 62 $('.resultPoint').html('??/100 point');
                                                                                                                 $('.resultPoint').html('??/100 point');
 63 $('.gradeTest').unbind("click");
                                                                                                                 $('.gradeTest').unbind("click");
                                                                                                                 $ dt = new Date()
 $ dt.setSeconds(dt.getSeconds()+60);
                                                                                                                 $ dt.setSeconds(dt.getSeconds()+60);
        $('.result').html("Prediction Time - "+dt.toTimeString())
                                                                                                                 $('.result').html("Prediction Time - "+dt.toTimeString())
67 - setTimeout(RunAjax, 60000);
                                                                                                           64 + setTimeout(runAjax, 60000);
```

Refactoring 3 – 절대 경로를 상대 경로로 수정

```
- $project_unzip_path = "/home/hong/RubymineProjects/Web_Rails/unzip"
+ $project_unzip_path = "#{__dir__}/.../unzip"
    require 'timers'
    timers = Timers::Group.new
@@ -79,7 +79,7 @@ def update
       format.html {redirect_to @applicant.challenge, notice: 'Applicant was successfully updated'}
       if @applicant.attachment != nil
         output = system("rm -f -r /home/hong/RubymineProjects/Web_Rails/unzip/#{@applicant.id}/")
         output = system("rm -f -r #{__dir__}/.../unzip/#{@applicant.id}/")
         output = system("unzip -o ./public/#{@applicant.attachment} -d ./unzip/#{@applicant.id} ")
         puts "unzip : #{output}"
```

Refactoring 4 – 포트번호 오류 수정

```
pproject_unzip_pain =
+ $applicantPort=0
+ $createPort=5000
+ $runPort=6000
def create spring test docker
  begin
   $applicantPort= $createPort + @applicant.id
  @docker = Docker::Container.create(
      'name': "applicant #{@applicant.id} test",
      'Image': 'dennischa50/board',
      'Tty': true,
      'Interactive': true,
      'ExposedPorts': { '8080/tcp' => {} },
     'HostConfig': {'PortBindings': {'8080/tcp' => [{'HostPort': "100#{@applicant.id}"}]},
      'HostConfig': {'PortBindings': {'8080/tcp' => [{'HostPort': "#{$applicantPort}"}]},
      'Binds': ["#{$project_unzip_path}/#{@applicant.id}:/home"]
     })
  Adocker start
```

2. Database Structure modify

applicants

id

name email token

score

language challenge_id

created_at

updated_at

attachment

attachments3

log

challenges

id

title goal information description created_at updated_at

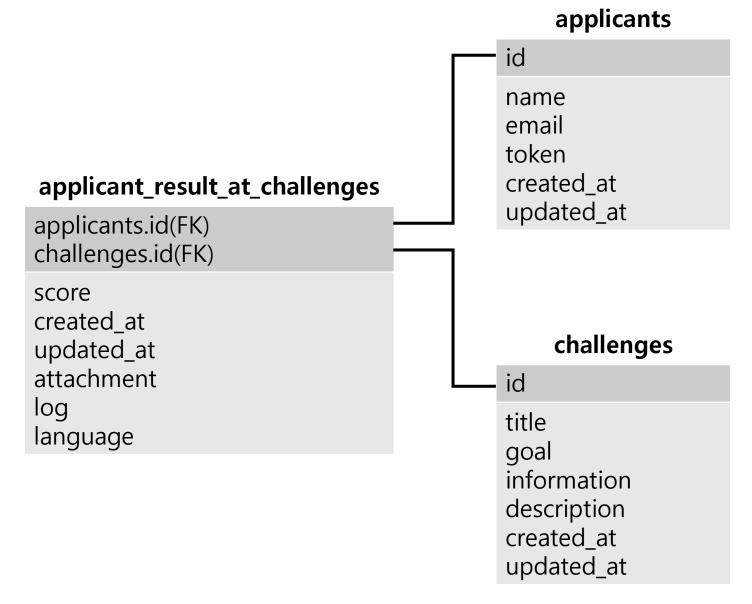
$ar_internal_metadata$

key

value

created_at

updated_at



ar_internal_metadata

value created_at updated_at

db migration 파일 생성

```
7 db/migrate/20171025065528_remove_details_to_applicants.rb
         ... @@ -0,0 +1,7 @@
              +class RemoveDetailsToApplicants < ActiveRecord::Migration[5.0]
              + remove_column :applicants, :score, :integer
                  remove_column :applicants, :language, :string
                  remove_column :applicants, :challenge_id, :integer
          7 +end
7  db/migrate/20171025072316_remove_attributes_to_applicants.rb
        ... @@ -0,0 +1,7 @@
         1 +class RemoveAttributesToApplicants < ActiveRecord::Migration[5.0]
          2 + def change
              + remove_column :applicants, :attachment, :string
                  remove_column :applicants, :attachments3, :string
              + remove_column :applicants, :log, :text
             +end
14 db/migrate/20171025074412_create_applicant_result_at_challenges.rb
        ... @@ -0,0 +1,14 @@
          +class CreateApplcantResultAtChllenges < ActiveRecord::Migration[5.0]</pre>
          2 + def change
                create_table :applicant_result_at_chllenges do |t|
                  t.belongs_to :challenges, index:true
                  t.belongs_to :applicants, index:true
                    t.integer :score
                    t.string :attachment
                    t.text :log
```

t.string :language

t.timestamps

10 +

13 + end 14 +end

db schema 파일 수정

and

```
ActiveRecord::Schema.define(version: 20170117021736) do
 create table "applicants", force: :cascade, options: "ENGINE=InnoDB DEFAULT CHARSET=utf8" do |t|
   t.string "name"
   t.string "email"
   t.string "token"
   t.integer "score"
                                           default: "SpringBoot"
   t.string "language",
   t.integer "challenge_id"
   t.datetime "created_at",
                                                                 null: false
   t.datetime "updated_at",
                                                                 null: false
   t.string "attachment"
   t.string "attachments3"
   t.text
              "log",
                             limit: 65535
   t.index ["challenge_id"], name: "index_applicants_on_challenge_id", using: :btree
 end
 create_table "challenges", force: :cascade, options: "ENGINE=InnoDB DEFAULT CHARSET=utf8" do |t|
   t.string "title"
   t.string "goal"
              "information", limit: 65535
   t.text
   t.string "description"
   t.datetime "created_at",
                                          null: false
   t.datetime "updated_at",
                                          null: false
 end
```

```
ActiveRecord::Schema.define(version: 20171025074412) do
 create_table "applicant_result_at_chllenges", force: :cascade, options: "ENGINE=InnoDB DEFAULT CHARSET=utf8" do |t|
   t.integer "challenges_id"
   t.integer "applicants_id"
   t.integer "score"
   t.string "attachment"
              "log",
                              limit: 65535
   t.text
   t.string "language"
   t.datetime "created at",
                                            null: false
                                            null: false
   t.datetime "updated_at",
   t.index ["applicants_id"], name: "index_applicant_result_at_chllenges_on_applicants_id", using: :btree
   t.index ["challenges_id"], name: "index_applicant_result_at_chllenges_on_challenges_id", using: :btree
 end
 create_table "applicants", force: :cascade, options: "ENGINE=InnoDB DEFAULT CHARSET=utf8" do |t|
   t.string "name"
   t.string "email"
   t.string "token"
   t.datetime "created_at", null: false
   t.datetime "updated_at", null: false
 end
 create_table "challenges", force: :cascade, options: "ENGINE=InnoDB DEFAULT CHARSET=utf8" do |t|
   t.string "title"
   t.string "goal"
           "information", limit: 65535
   t.text
   t.string "description"
   t.datetime "created at",
                                          null: false
                                          null: false
   t.datetime "updated_at",
 end
```