## LISTE DES TESTS DU BESOINS « IDENTIFICATION »

## 1. TESTS UNDER REPOSITORIES

```
2. package com.fabrication.agent.repositories;
   import java.util.Date;
       void givenIdDocument itShouldReturnNullReferenceDocument() {
           assertThat(referencedocument).isNull();
```

```
assertTrue(object.isEmpty());
   void givenANullClientId itShouldReturnEmptyList() {
       List<Object> object =
referenceDocumentRepository.getReferenceDocumentByClientId(id);
       assertThat(object).isEmpty();
```

```
this.saveReferenceDocumentForReseach();
        StatusTreatmentSystemeList finish =
StatusTreatmentSystemeList.FINISH;
        assertTrue(object.isEmpty());
    void itShouldReturnAPageOfReferenceDocument() {
```

```
assertThat(cni.isPresent()).isTrue();
givenClientId itShouldReturnEmptyOptionalDocumentDoNotExist() {
    void givenClientId itShouldGetOptionalReferenceDocument() {
        Long id = this.saveReferenceDocumentAndReturnRefDocId();
        Optional<Object> cni =
        assertThat(cni.isPresent()).isTrue();
    private Passport getPassportFinish(Long id) {
```

```
"123655",
private Cni getCniForm(Long id) {
private Passport getPassportBuild(Long id) {
    return new Passport (
```

```
private Passport getPassportEmit(Long id) {
private Cni getCni(Long id) {
            Date.from(Instant.now()),
            Date.from(Instant.now()),
```

```
private Long saveReferenceDocumentAndReturnIdClient() {
                new Client(
                new Client(
                        PersonStatus. ACTIVE,
                        Date.from(Instant.now())
mentReference();
    private void saveReferenceDocumentForReseach() {
                        Date.from(Instant.now())
personRepository.findClientByEmail("em222ail@qd.col", PersonStatus.CRE
        referenceDocumentRepository.save(this.getPassportBuild(id));
```

```
void setUp(){
            new Client(
                    PersonStatus. ACTIVE,
                    Date.from(Instant.now())
```

```
PersonStatus. CREATE,
private void assertThatClientsAreEqual(String email, Client
```

```
public void givenEmail itShouldReturnNullClient() {
clientRepository.findClientByEmailAndValidationCode(email, code,
PersonStatus.CREATE);
        assertThat(client).isNull();
qivenEmail itShouldReturnListOfEntriesForOneClientWhenItIsCreateOrAct
ive() {
```

```
void givenLogin_itShouldGetAgentByLogin() {
void givenLogin itShouldReturnNullAgentByLogin() {
@Order(8)
void givenEmail itShouldGetAgentByEmail() {
```

```
void givenLogin itShouldReturnNullAgentByEmail() {
void givenLoginAndPassword itShouldGetOneAgent() {
void givenLoginAndPassword itShouldReturnNullAgent() {
void givenEmailAndPassword itShouldGetOneAgent() {
   String email = "email@gmail.com";
    assertThat(agent).isNotNull();
void givenEmailAndPassword itShouldReturnNullAgent() {
```

```
void givenLastNameAndFirstName itShouldGetAnAgent() {
   assertThat(agent).isNotNull();
```

## 4. TESTS UNDER SERVICES

```
import
com.fabrication.agent.repositories.ReferenceDocumentRepository;
import com.fabrication.client.repositories.PersonRepository;
import com.fabrication.entities.Client;
import com.fabrication.entities.Cni;
import com.fabrication.entities.Passport;
import com.fabrication.entities.Referencedocument;
import com.fabrication.exceptions.ResourceNotFoundException;
import com.fabrication.utils.Gender;
import com.fabrication.utils.PersonStatus;
import com.fabrication.utils.StatusInTreatment;
import com.fabrication.utils.StatusInTreatment;
import com.fabrication.utils.StatusTreatmentSystemeList;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
```

```
PersonStatus.ACTIVE,
Date.from(Instant.now())
```

```
.qetCni1());
        referentDocumentService.saveDocCni(this.getCni());
    public void itShouldThrowExceptionWhenCniIdDocumentIsNull() {
       cni.setIdDocumentReference(null);
                () ->referentDocumentService.saveDocCni(cni)
```

```
.save(cni);
                StatusTreatmentSystemeList.FINISH
assertThat(exception.getMessage()).isEqualTo("Client is
        .save(cni);
```

```
void itShouldThrowAnExceptionForListOfReferenceDocumentEmpty() {
   assertThat(exception.getMessage()).isEqualTo("Element not
void itShouldReturnAListOfReferenceDocumentForClient() {
   objectList.add(this.getCni1());
```

```
Optional<Object> objectOptional = Optional.empty();
when (referenceDocumentRepository.getCurrentReferenceDocumentByClientI
d(1L, StatusTreatmentSystemeList.FINISH)).thenReturn(objectOptional);
                ResourceNotFoundException.class,
referentDocumentService.getCurrentReferenceDocumentByClientId(1L)
       assertThat(cni).isNotNull();
    void itShouldGenerateReferenceFormId(){
       String referenceFormId =
referentDocumentService.generateReferenceFormId(1L);
        assertTrue(referenceFormId.endsWith("1"));
```

```
when (personService.findClientById(1L)).thenReturn(client);
        when (personService.findClientById(1L)).thenThrow(new
                () ->referentDocumentService.initCni(1L)
        assertThat(exception.getMessage()).isEqualTo("Client don't
   @Test
   void itShouldFindAllReferenceByStatusTreatmentSystemListAndPage()
referenceDocumentRepository.findAll(StatusTreatmentSystemeList.BUILD,
PageRequest.of(0,5))
                .thenReturn(referenceDocumentPageMock);
        Page<Referencedocument>referencedocumentPage =
referentDocumentService
.findAllReferenceByStatusTreatmentSystemListAndPage(StatusTreatmentSy
```

```
assertThat(referencedocumentPage.isEmpty()).isFalse();
                .thenThrow(MockitoException.class);
       ResourceNotFoundException exception = assertThrows(
               ResourceNotFoundException.class,
.findAllReferenceByStatusTreatmentSystemListAndPage(
   @Test
       referenceDocumentList.add(this.getCni1());
       referenceDocumentList.add(this.getCni1());
       Page<Referencedocument> referenceDocumentPageMock = new
```

```
.thenReturn(referenceDocumentPageMock);
        assertThat(referencedocumentPage.isEmpty()).isFalse();
import static org.assertj.core.api.Java6Assertions.assertThat;
import static org.junit.jupiter.api.Assertions.assertThrows;
public class ReferenceDocumentPassportServiceTest {
    private ReferenceDocumentRepository<Passport> passportRepository;
    private ReferentDocumentService referentDocumentService;
    private Passport getPassport() {
```

```
PersonStatus. ACTIVE,
                    Date.from(Instant.now())
private Passport getPassport1() {
            new Client(
                    PersonStatus.ACTIVE,
```

```
void setUp() {
        personService = mock(PersonRepository.class);
                .getCurrentReferenceDocumentByClientId(
                        this.getPassport().getIdDocumentReference(),
                        StatusTreatmentSystemeList.FINISH
when (referenceDocumentRepository.save(this.getPassport())).thenReturn
        referentDocumentService.saveDocPassport(this.getPassport());
    @Test
Assertions.assertThat(exception.getMessage()).isEqualTo("Document
    public void itShouldThrowExceptionWhenCniClientIsNull() {
        Throwable exception = assertThrows(
```

```
() ->referentDocumentService.saveDocPassport(passport)
            .getCurrentReferenceDocumentByClientId(
                    passport.getIdDocumentReference(),
                    StatusTreatmentSystemeList.FINISH
            ResourceNotFoundException.class,
            () ->referentDocumentService.saveDocPassport(passport)
    verify(referenceDocumentRepository, times(1))
            .getCurrentReferenceDocumentByClientId(
                    passport.getIdDocumentReference(),
                    StatusTreatmentSystemeList.FINISH
    verify(referenceDocumentRepository, times(0))
@Test
void itShouldUpdateAPassportById() {
```

```
Client client = new Client(
                   PersonStatus.ACTIVE,
                   Date.from(Instant.now())
          when (personService.findClientById(1L)).thenReturn(client);
           when (personService.findClientById(1L)).thenThrow(new
7. package com.fabrication.client.services;
   import com.fabrication.services.EmailServiceImpl;
```

```
import com.fabrication.utils.PersonStatus;
   private EmailService emailServiceMock;
   private PersonService personServiceTest;
   void setUp() {
   void itShouldThrowExceptionWhenEmailIsNull() {
                () -> personServiceTest.connectClient(null)
```

```
.thenReturn(clientList);
        personServiceTest.connectClient("address@email.com");
assertThat(clientList.get(0).getEmail()).isEqualTo("address@email.com
        Client client = new Client(
                PersonStatus. INACTIVE,
when (clientRepositoryMock.findClientByEmail("address@email.com",
PersonStatus.ACTIVE)).thenReturn(client);
                        .save(client))
                .thenReturn(client);
        personServiceTest.disableClient("address@email.com");
PersonStatus.ACTIVE);
```

```
.save(client);
    void itShouldValidateClientCode() {
                Date.from(Instant.now())
when (clientRepositoryMock.findClientByEmailAndValidationCode (email,
        assertTrue(verificationValue);
import com.fabrication.entities.Agent;
import com.fabrication.client.repositories.PersonRepository;
import com.fabrication.utils.LoginBean;
import com.fabrication.utils.PersonStatus;
public class PersonServiceAgentTest {
```

```
void setUp() {
void itShouldSaveAndAgent() {
            PersonStatus. ACTIVE,
@Test
@DisplayName ("it should throw an exception when email is null")
void itShouldThrowExceptionWhenEmailIsNull() {
            PersonStatus.ACTIVE,
```

```
@Test
            () -> personServiceTest.savePersonAgent(agent)
@Test
void itShouldThrowExceptionWhenLastNameIsNull() {
            PersonStatus.ACTIVE,
void itShouldThrowExceptionWhenFirstNameIsNull() {
            PersonStatus.ACTIVE,
```

```
exception.getMessage());
    @Test
    void itShouldThrowExceptionWhenEmailAlreadyExist() {
                PersonStatus.ACTIVE,
   @Test
   @DisplayName("it should throw an exception when lastname and
   void itShouldThrowExceptionWhenFirstNameAndLastNamrAlreadyExist()
```

```
PersonStatus.ACTIVE,
assertThat(personServiceTest.connectAgent(loginBean)).isNotNull();
when (agentRepositoryMock.connectAgentByLoginAndPassword(loginBean.get
```

```
@DisplayName("It should throw an exception when connect an agent
itShouldThrowAnExceptionWhenConnectAnAgentBecauseLoginIsEmpty() {
    @DisplayName ("It should throw an exception when connect an agent
itShouldThrowAnExceptionWhenConnectAnAgentBecausePasswordIsNull() {
                PersonStatus.ACTIVE,
itShouldThrowAnExceptionWhenConnectAnAgentBecauseAgentDoNotExist() {
when (agentRepositoryMock.connectAgentByLoginAndPassword(loginBean.get
Login(), loginBean.getPassword()))
```

```
when (agentRepositoryMock.connectAgentByLoginAndPassword(loginBean.get
when (agentRepositoryMock.connectAgentByEmailAndPassword(loginBean.get
```

```
class EmailServiceImplTest {
   private EmailService emailService;
    private JavaMailSender javaMailSenderMock;
    @Test
        emailService.sendSimpleMessage(to,subject,text);
    @Test
        String subject = "Validation";
```

```
assertThat(exception.getMessage())
verify(javaMailSenderMock,times(0)).send(message);
        () -> emailService.sendSimpleMessage(to, subject,
assertThat(exception.getMessage())
verify(javaMailSenderMock, times(0)).send(message);
```

```
verify(javaMailSenderMock, times(0)).send(message);
    @Test
    void itShouldSendEmailToNotifiedClientTest() {
itShouldThrowAnExceptionWhenReceiverIsInvalidSendMailToEmit() {
       String subject = "Validation";
       message.setSubject(subject);
```

```
() -> emailService.sendMailToEmition(to, subject,
            () -> emailService.sendMailToEmition(to, subject,
void itShouldGenerateValidationCode() {
```

```
assertTrue(emailService.generateValidationCode().matches("^[012345678
public class BuildClientPDFTest {
    private Cni getCni() {
        cni.setLastName("updaterepoLN");
        cni.setDateOfBirth(Date.from(Instant.now()));
        cni.setDeliveryDate(Date.from(Instant.now()));
        cni.setGender(Gender.MALE);
        cni.setExpirationDate(Date.from(Instant.now()));
    private Passport getPassport() {
```

```
return passport;
    void setUp(){
import org.springframework.data.domain.Page;
import org.springframework.data.domain.PageImpl;
class BuildServiceImplTest {
```

```
private BuildService buildService;
void setUp(){
private Imageadditionaldocument getImageAdditionalDocument() {
private Page<Referencedocument> listDocReadyToBuildData() {
            new Client(
                    PersonStatus. ACTIVE,
                    Date.from(Instant.now())
```

```
null,
Date.from(Instant.now()),
        PersonStatus. ACTIVE,
```

```
PersonStatus. ACTIVE,
Date.from(Instant.now())
```

```
new Client(
        Date.from(Instant.now())
        PersonStatus. ACTIVE,
```

```
PersonStatus. ACTIVE,
                new Client(
        return new PageImpl<Referencedocument>(referencedocumentList,
PageRequest.of(0, 2), 4L);
    void itShouldReturnPageListOfDocReadyToBuild() {
```

```
assertThat(data.isEmpty()).isFalse();
        assertThat(data.getContent()).isNotEmpty();
    void itShouldReturnAnEmptyPageListOfDocReadyToBuild() {
        ).thenReturn(new PageImpl(new
ArrayList<Referencedocument>()));
        Page<Referencedocument> data =
        assertThat(data.isEmpty()).isTrue();
        assertThat(data.getContent()).isEmpty();
    void itShouldThrowAnExceptionWhenGetAListOfDocReadyToBuild() {
                .findAll(
    void itShouldThrowAnExceptionWhenGetDocumentInformationById() {
        Optional<Object> objectOptional = Optional.empty();
)).thenReturn(objectOptional);
        Throwable throwable = assertThrows(
                () ->buildService.getDocumentInformationById(1L)
        assertThat(throwable.getMessage()).isEqualTo("Unexisting
```

```
"sdvsdv",
            new Client(
                    PersonStatus. ACTIVE,
                    Date.from(Instant.now())
void itShouldGetDocumentInformationById() {
void itShouldReturnPageListOfDocRealTimeBuilding() {
            .findAll(
```

```
void itShouldReturnAnEmptyPageListOfDocRealTimeBuilding() {
                .findAll(
        assertThat(data.isEmpty()).isTrue();
    @Test
    void itShouldThrowAnExceptionWhenGetAListOfDocRealTimeBuilding()
                .findAll(
                        StatusTreatmentSystemeList.BUILD,
                ()->buildService.changeStatusOfDocument(1L,
StatusInTreatment.Ready)
        assertThat(throwable.getMessage()).isEqualTo("Unexisting")
    @Test
    void itShouldChangeStatusOfDocument() {
```

```
verify(referenceDocumentRepository,
        Optional<Object> objectOptional = Optional.empty();
    void itShouldThrowAnExceptionWhileChangeStatusOfDocumentToEmit1()
        Optional<Object> objectOptional =
when (referenceDocumentRepository.findOptionalReferenceDocumentById(1L
    @Test
)).thenReturn(objectOptional);
        buildService.changeStatusOfDocumentToEmit(1L);
        verify(referenceDocumentRepository,
times(1)).save(any(Referencedocument.class));
```

```
import static org.junit.jupiter.api.Assertions.*;
import static org.mockito.Mockito.*;
import static org.mockito.Mockito.times;
class EmitServiceImplTest {
     void setUp(){
     private Imageadditionaldocument getImageAdditionalDocument() {
     private Page<Referencedocument> listDocReadyToBuildData() {
                     Date.from(Instant.now()),
```

```
Cni cni2 = new Cni(
                PersonStatus. ACTIVE,
```

```
new Client(
        PersonStatus. ACTIVE,
        Date.from(Instant.now())
Date.from(Instant.now()),
```

```
),
this.getImageAdditionalDocument(),
this.getImageAdditionalDocument(),
```

```
Date.from(Instant.now())
this.getImageAdditionalDocument(),
```

```
private Cni getReferenceDocument() {
            Date.from(Instant.now()),
            Date.from(Instant.now()),
            Date.from(Instant.now()),
void itShouldReturnAPageListOfDocumentToEmit() {
```

```
assertThat(data.getContent()).isNotEmpty();
void itShouldReturnEmptyPageOfDocumentToEmit(){
    assertThat(data.isEmpty()).isTrue();
    assertThat(data.getContent()).isEmpty();
@Test
void itShouldThrowAnExceptionWhenGetAListOfDocReadyToEmit() {
            .findAll(
                    StatusTreatmentSystemeList.BUILD,
   Throwable throwable = assertThrows(
            () ->emitService.getReferenceDocument(1L)
   assertThat(throwable.qetMessage()).isEqualTo("Unexisting
void itShouldGetDocumentInformationById() {
            .thenReturn(objectOptional);
```

```
@Test
StatusTreatmentSystemeList.FINISH)
        ).thenReturn(objectOptional);
       assertThat(throwable.getMessage()).isEqualTo("Unexisting
    @Test
    void itShouldSendNotificationEmailToClient() {
   void itShouldThrowAnExceptionWhenSendNotificationEmailToClient()
        Optional<Object> objectOptional = Optional.of(cni);
        when (referenceDocumentRepository
                .getCurrentReferenceDocumentByClientId(1L,
        Throwable throwable = assertThrows(
        assertThat(throwable.getMessage()).isEqualTo("Unexisting
```

```
itShouldThrowAnExceptionNullPointerWhenSendNotificationEmailToClient(
        Optional<Object> objectOptional = Optional.empty();
    void verifiedReferenceDocumentToReturnDocumentToClient() {
    void setUp() {
GeneralExceptionTreatement();
    void customExceptionController() {
                HttpStatus.NOT FOUND.toString(),
```

## 14. TESTS UNDER CONTROLLERS

```
import static org.junit.jupiter.api.Assertions.assertEquals;
import static org.junit.jupiter.api.Assertions.assertTrue;
import static org.mockito.Mockito.any;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.wock;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

import
com.fabrication.agent.repositories.AdditionalDocumentsRepository;
import com.fabrication.agent.repositories.FileRepository;
import
com.fabrication.agent.services.FileResourceService;
import com.fabrication.agent.services.FileResourceService;
import com.fabrication.client.repositories.PersonRepository;
import com.fabrication.client.services.PersonServiceImpl;
import com.fabrication.client.services.PersonServiceImpl;
import java.io.ByteArrayInputStream;
import java.io.ByteArrayInputStream;
import java.io.IOException;
import java.util.HashMap;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Disabled;
import org.junit.jupiter.api.Disabled;
import org.springframework.http.HttpStatus;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
```

```
class FileControllerTest {
    private FileController fileController;
    void setUp(){
    void itShouldUploadABirthCertificate() throws Exception {
ByteArrayInputStream("AAAAAAAA".getBytes("UTF-8"))), 123L ,
assertTrue(actualBirthCertificateResult.getHeaders().isEmpty());
    void itShouldUploadANationalCertificate() throws Exception {
when (fileResourceService.uploadNationalCertificate((MultipartFile)
        ResponseEntity<?> actualNationalCertificateResult =
fileController.uploadNationalCertificate(
                new MockMultipartFile(
                        new ByteArrayInputStream(
```

```
assertTrue(actualNationalCertificateResult.getHeaders().isEmpty());
    void itShouldUploadALostCertificate() throws Exception {
assertTrue(actualLostCertificateResult.getHeaders().isEmpty());
        ResponseEntity<?> actualImageResult =
fileController.uploadImage(
       Map<String, String> data = new HashMap<>();
```

```
import com.fasterxml.jackson.databind.ObjectMapper;
org.springframework.test.web.servlet.request.MockMvcRequestBuilders;
org.springframework.test.web.servlet.result.MockMvcResultMatchers;
@ContextConfiguration(classes = {ReferenceDocumentController.class})
    private Cni getCni() {
```

```
cni.setFirstName("fn");
        cni.setGender(Gender.FEMALE);
        cni.setIdDocumentReference(5L);
       cni.setNameOfFather("nf");
       cni.setPosteIdentification("pi");
   private Cni getCni1() {
        ZoneId zone1 = ZoneId.of("UTC");
        cni.setDeliveryDate(Date.from(LocalDate.of(1970, 1,
1).atStartOfDay().atZone(zone1).toInstant()));
        cni.setExpirationDate(Date.from(LocalDate.of(1970, 1,
1).atStartOfDay().atZone(zone2).toInstant()));
       cni.setFirstName("FN");
       cni.setGender(Gender.FEMALE);
       cni.setIdDocumentReference(5L);
       cni.setNameOfFather("FN");
```

```
cni.setStatusTreatmentSystemeList(StatusTreatmentSystemeList.FORM);
    private Passport getPassport() {
1).atStartOfDay();
passport.setDeliveryDate(Date.from(atStartOfDayResult1.atZone(ZoneId.
        LocalDateTime atStartOfDayResult2 = LocalDate.of(1970, 1,
1).atStartOfDay();
passport.setExpirationDate(Date.from(atStartOfDayResult2.atZone(ZoneI
        return passport;
    private Passport getPassportupd() {
        Passport passport = new Passport();
        LocalDateTime atStartOfDayResult = LocalDate.of(1970, 1,
1).atStartOfDay();
```

```
of("UTC")).toInstant()));
passport.setStatusTreatmentSystemeList(StatusTreatmentSystemeList.FOR
        return passport;
    void itShouldSaveCni() throws Exception {
MockMvcRequestBuilders
        cni.setFirstName("Jane");
        cni.setGender(Gender.FEMALE);
        cni.setIdDocumentReference(5L);
        cni.setLastName("Doe");
        cni.setNameOfFather("Name Of Father");
        cni.setProfession("Profession");
cni.setStatusTreatmentSystemeList(StatusTreatmentSystemeList.FORM);
        ZoneId zone3 = ZoneId.of("UTC");
        ObjectMapper objectMapper = new ObjectMapper();
```

```
MockMvc buildResult =
    void itShouldFetchedCni() throws Exception {
       MockMvcBuilders.standaloneSetup(referenceDoController)
                .build()
                .perform(requestBuilder)
.andExpect(MockMvcResultMatchers.content().contentType("application/j
.andExpect(MockMvcResultMatchers.content().string("[]"));
   void itShouldUpdateCni() throws Exception {
        when(referentDocumentService.updateCni((Cni) any(), (Long)
ObjectMapper()).writeValueAsString(cni1);
                .contentType (MediaType.APPLICATION JSON)
       MockMvcBuilders.standaloneSetup(referenceDoController)
                .build()
                .perform(requestBuilder)
.andExpect(MockMvcResultMatchers.status().isCreated())
                        .string(
```

```
void itShouldDeleteCniById() throws Exception {
        doNothing().when(referentDocumentService).deleteCni((Long))
        MockMvcBuilders.standaloneSetup(referenceDoController)
                .build()
.andExpect(MockMvcResultMatchers.content().contentType("text/plain;ch
    void itShouldSavePassport() throws Exception {
        Passport passport1 = new Passport();
        MockHttpServletRequestBuilder contentTypeResult =
MockMvcRequestBuilders
                .post("/api/v1/document/passport", passport1)
                .contentType (MediaType.APPLICATION JSON);
        Passport passport = new Passport();
1).atStartOfDay().atZone(zone1).toInstant()));
```

```
passport.setDocumentNumber("42");
        passport.setNameOfFather("Name Of Father");
        passport.setWithdrawalDate(Date.from(LocalDate.of(1970, 1,
        MockHttpServletRequestBuilder requestBuilder =
contentTypeResult
                .content(objectMapper.writeValueAsString(passport));
MockMvcBuilders.standaloneSetup(controllers).build();
        ResultActions actualPerformResult =
    void itShouldUpdatePassPort() throws Exception {
        MockHttpServletRequestBuilder contentTypeResult =
MockMvcRequestBuilders
                .contentType (MediaType.APPLICATION JSON);
        Passport passport = new Passport();
        ArrayList<Additionaldocument> additionalDocumentList = new
        passport.setDateOfBirth(Date.from(LocalDate.of(1970, 1,
        ZoneId zone1 = ZoneId.of("UTC");
```

```
passport.setNameOfFather("Name Of Father");
        ObjectMapper objectMapper = new ObjectMapper();
contentTypeResult
                .content(objectMapper.writeValueAsString(passport));
        Object[] controllers = new Object[]{referenceDoController};
        MockMvc buildResult =
MockMvcBuilders.standaloneSetup(controllers).build();
        ResultActions actualPerformResult =
    void itShouldInitCni() {
referenceDoController.initPassPort(1L);
        verify(referentDocumentService, times(1)).initPassPort(1L);
assertThat(responseEntity.getStatusCodeValue()).isEqualTo(204);
assertThat(responseEntity.getStatusCode()).isEqualByComparingTo(HttpS
    void itShouldFindAlldDocument() {
```

```
referenceDocumentList.add(this.getCni1());
referentDocumentService.findAllReferenceByStatusTreatmentSystemListAn
                        statusTreatmentSystemeList,
                .thenReturn(referenceDocumentPageMock);
    void itShouldFindAllBuildDocument() {
        referenceDocumentList.add(this.getCni1());
       referenceDocumentList.add(this.getCni1());
       referenceDocumentList.add(this.getCni1());
```

```
{\tt referentDocumentService.findAllReferenceInBuildingStepByStatusInTreat}
mentAndPage(
        verify(referentDocumentService, times(1))
.findAllReferenceInBuildingStepByStatusInTreatmentAndPage(
class ClientRestControllerTest {
    void setUp(){
```

```
void itShouldDisableClient() {
        verify(personService,
times(1)).codeClientValidation(loginBean.getLogin(),loginBean.getPass
assertThat(responseEntity.getStatusCodeValue()).isEqualTo(204);
assertThat(responseEntity.getStatusCode()).isEqualByComparingTo(HttpS
        assertThat(responseEntity.getBody()).isNull();
import static org.assertj.core.api.Assertions.assertThat;
import static org.junit.jupiter.api.Assertions.assertThrows;
class LoginControllerTest {
    private LoginController loginController;
```

```
assertThat(responseEntity.getStatusCodeValue()).isEqualTo(200);
assertThat(responseEntity.getStatusCode()).isEqualByComparingTo(HttpS
        assertThat(responseEntity.getBody()).isEqualTo(client);
    void givenNullEmail itShouldThrowAnExceptionToConnectClient() {
                PersonStatus.ACTIVE,
when (personService.connectAgent (loginBean)).thenReturn (agent);
```

```
@Test
           when (personService.connectAgent (loginBean)).thenThrow (new
           Throwable exception = assertThrows(
                   () -> loginController.connectAgent(loginBean)
           assertThat(exception.getMessage()).isEqualTo("Login and/or
19. package com.fabrication.build.controller;
   import org.springframework.data.domain.PageRequest;
   import org.springframework.http.HttpStatus;
       private BuildController buildController;
       private BuildService buildService;
```

```
void setUp(){
private Imageadditionaldocument getImageAdditionalDocument() {
            Date.from(Instant.now()),
                    PersonStatus. ACTIVE,
                    Date.from(Instant.now())
```

```
new Client(
        PersonStatus. ACTIVE,
        Date.from(Instant.now())
Date.from(Instant.now()),
        PersonStatus. ACTIVE,
new Client(
```

```
Date.from(Instant.now()),
                Date.from(Instant.now()),
                        PersonStatus. ACTIVE,
                new Client(
        referencedocumentList.add(cni1);
        referencedocumentList.add(cni2);
        referencedocumentList.add(cni3);
PageRequest.of(0, 2), 4L);
```

```
PersonStatus. ACTIVE,
Date.from(Instant.now())
PersonStatus. ACTIVE,
```

```
PersonStatus. ACTIVE,
Date.from(Instant.now()),
```

```
return new PageImpl<Referencedocument>(referencedocumentList,
    void givenPageAndSize itShouldReturnAllDocumentReadyToPrint() {
cReadyToBuildData().toString());
qivenPageAndSize itShouldThrowAnExceptionDocumentReadyToPrint() {
                Exception.class,
```

```
@Test
    void givenIdAndStatusInTreatment itShouldUpdateDocumentStatus() {
buildController.updateDocumentStatus(id, statusInTreatment);
assertThat(responseEntity.getStatusCodeValue()).isEqualTo(204);
assertThat(responseEntity.getStatusCode()).isEqualByComparingTo(HttpS
tatus.NO CONTENT);
when (buildService.listDocInRealTimeBuilding (page, size)).thenReturn (th
buildController.findAllDocumentRealTimePrinting(page, size);
cReadyToBuildData().toString());
qivenPageAndSize itShouldThrowAnExceptionDocumentRealTimePrinting() {
when (buildService.listDocInRealTimeBuilding (page, size)).thenThrow (new
```

```
Throwable throwable = assertThrows(
>buildController.findAllDocumentRealTimePrinting(page, size)
                () ->buildController.findDocumentById(id)
    @Test
```