

# **Projet Test Unitaire**

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#### **Route Index**

Afin de lancer la Webapp il est nécessaire d'ajouter au code la condition:

Test pour vérifier que le serveur se lance correctement:

```
# pytest --disable-warnings -v ./tests/test_server.py::test_root_index

Run|Debug|Show in Test Explorer

def test_root_index(client):

response = client.get('/')

assert response.status_code == 200

assert b'<form' in response.data

assert b'<input' in response.data

Please enter your secretary email to continue:
Email:

Email:

Enter
```

### **Route showSummary**

Test pour s'assurer que summary s'affiche correctement avec un secretary email

```
# pytest --disable-warnings -v ./tests/test_server.py::test_InSummary
Run | Debug | Show in Test Explorer
def test_InSummary(client):
    response = client.post("/showSummary", data = dict(email = "john@simplylift.co"), follow_redirects=True)
    assert response.status_code == 200
    data = response.data.decode()
    print(data)
                                                                   Welcome to the GUDLFT Registration Portal!
    assert "Welcome, john@simplylift.co" in data
                                                                   Please enter your secretary email to continue:
                                                                   Email: john@simplylift.co
                                                                                       Enter
             Welcome, john@simplylift.co
```

Logout Points available: 13

#### **Competitions:**

 Spring Festival Date: 2020-03-27 10:00:00 Number of Places: 25 Book Places

Fall Classic

Date: 2020-10-22 13:30:00 Number of Places: 13 Book Places

# Route showSummary

> Test pour s'assurer que summary s'affiche correctement avec un secretary email

```
#pytest --disable-warnings -v ./tests/test_server.py::test_noInSummary

Run|Debug|Show in Test Explorer

#ef test_noInSummary(client):
response = client.post("/showSummary", data = dict(email = "john@exemple.com"), follow_redirects=True)

assert response.status_code == 403

data = response.data.decode()
print(data)
assert "Désolé, cet email n'a pas été trouvé" in data

Please enter your secretary email to continue:
Email: noinsummary@test.com || Enter
```

#### → Modification du script de la Webapp et du fichier index.html



## Route booking / compétition / club

Test pour s'assurer de l'affichage d'une page **booking.html** pour un club et une compétition valide

```
#pytest --disable-warnings -v ./tests/test_server.py::test_Booking
Run|Debug|Show in Test Explorer

def test_Booking(client):
    response = client.post("/showSummary", data = dict(email = "john@simplylift.co"),follow_redirects=True)
    assert response.status_code == 200
    data = response.data.decode()
    print(data)
    assert "/book/Spring%20Festival/Simply%20Lift" in data
```

Spring Festival							
Places available: 25							
How many places?	•	Book					

# Route showSummary

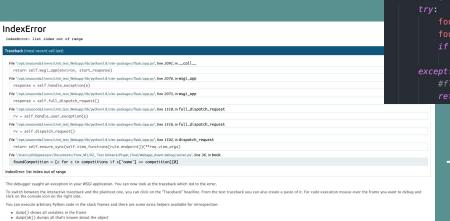
Test pour s'assurer que l'affichage utilisateur empêche la réservation d'une compétition ou d'un

club invalide :

```
#pytest --disable-warnings -v ./tests/test_server.py::test_invalideBooking
Run|Debug|Show in Test Explorer

def test_invalideBooking(client):
    response = client.get("/book/Winter%20Festival/Simply%20Lift", follow_redirects = True)
    assert response.status_code == 200
    data = response.data.decode()
    print(data)
    assert "Welcome to the GUDLFT Registration Portal!" in data
```

#### → Modification du script de la Webapp



```
@app.route('/book/<competition>/<club>')
def book(competition,club):
    try:
        foundClub = [c for c in clubs if c['name'] == club][0]
        foundCompetition = [c for c in competitions if c['name'] == competition][0]
        if foundClub and foundCompetition:
            return render_template('booking.html',club=foundClub,competition=foundCompetition)
        except:
        #flash("Something went wrong-please try again")
        return redirect(url_for('index'))
```

#### Welcome to the GUDLFT Registration Portal!

## **Route PurchasePlaces (1/4)**

Test pour s'assurer que lorsque l'user achète, les places sont correctement déduites

```
#pytest --disable-warnings -v ./tests/test server.py::test valid purchase point
def test_valid_purchase_point(client):
   rv_test=client.post('/purchasePlaces', data =dict(club = 'Iron Temple', competition='Spring Festival', places = 1), follow_redirects = True)
    data =rv test.data.decode()
    assert 'Number of Places: 24' in data
   assert 'Great-booking complete!' in data
    assert 'Points available: 3' in data
```

Les "points available" ne sont pas correctement déduits → Modification du script de la Webapp

#### Welcome, admin@irontemple.com

#### Logout

Great-booking complete!

Points available: 4

#### **Competitions:**

Spring Festival

Date: 2020-03-27 10:00:00 Number of Places: 24 Book Places

Fall Classic

Date: 2020-10-22 13:30:00

Number of Places: 13 Book Places

## Route PurchasePlaces (2/4)

Test pour s'assurer de l'affichage d'un message d'erreur lorsque plus de 12 places sont achetés

```
#pytest --disable-warnings -v ./tests/test_server.py::test_inValid_purchase_point_limite_date

Run|Debug|Show in Test Explorer

def test_inValid_purchase_point_more_than_12(client):

rv_test=client.post('/purchasePlaces', data =dict(club = 'Iron Temple', competition='Spring Festival', places = 13), follow_redirects = True)

data =rv_test.data.decode()
print(data)

assert 'Impossible to buy more than 12 places and less than 1' in data

Places available: 25
How many places? 13

Book
```

Il est possible de commander plus de 12 places → Modification du script de la Webapp



# Route PurchasePlaces (3/4)

Test pour s'assurer de l'affichage d'un message d'erreur lorsque la date est dépassée

```
#pytest --disable-warnings -v ./tests/test_server.py::test_inValid_purchase_point_limite_date
Run|Debug|Showin Test Explorer

def test_inValid_purchase_point_limite_date(client):
    rv_test=client.get('/book/Fall%20Classic/Iron%20Temple')
    assert rv_test.status_code==403
    data =rv_test.data.decode()
    print(data)
    assert 'Date limite d'achat dépassé, cliquez ici pour revenir en arrière :' in data
```

Il est possible de réserver une place pour un événement dépassé → Modification du script de la Webapp



# **Route PurchasePlaces (4/4)**

Modification de la Webapp et du welcome.html

```
@app.route('/purchasePlaces',methods=['POST'])
def purchasePlaces():
    competition = [c for c in competitions if c['name'] == request.form['competition']][0]
                                                                                                                                  Competitions:
    club = [c for c in clubs if c['name'] == request.form['club']][0]
    placesRequired = int(request.form['places'])
    pts = int(club["points"])
                                                                                                                                      Spring Festival
                                                                                                                                      Date: 2022-03-27 10:00:00
                                                                                                                                      Number of Places: 25 Book Places
    if placesRequired <= 12 and placesRequired>0:
        if placesRequired <= int(competition['numberOfPlaces']) and pts*3 >= placesRequired and pts-placesRequired*3>=0 :
            competition['numberOfPlaces'] = int(competition['numberOfPlaces'])-placesRequired
                                                                                                                                      Fall Classic
            club["points"] = pts - placesRequired*3
                                                                                                                                      Date: 2020-10-22 13:30:00
            pts = pts - placesRequired*3
            flash('Great-booking complete!')
            return render template('welcome.html', club=club, competitions=competitions)
            return render_template('welcome.html', club=club, competitions=competitions, errorPurchase = "Not enoought point for buy"), 403
```

#### Welcome, admin@irontemple.com

Logout

return render template('welcome.html', club=club, competitions=competitions, errorPurchase = "Impossible to buy more than 12 places and less than 1"), 403

· Great-booking complete!

Points available: 1

#### Competitions:

- Spring Festival Date: 2022-03-27 10:00:00 Number of Places: 24 Book Places
- Fall Classic Date: 2020-10-22 13:30:00 Number of Places: 13 Book Places

Welcome, john@simplylift.co

Logout Points available: 13

Impossible to buy more than 12 places and less than 1

Impossible to buy more than 12 places and less than 1

• Impossible to buy more than 12 places and less than 1

Number of Places: 13 Book Places

Les 3 fonctionnalités fonctionnent désormais

Date limite d'achat dépassé, cliquez ici pour revenir en arrière : Retour

### Test d'intégration

```
Run | Debug | Show in Test Explorer
def test integration(client):
    clubs = loadClubs()
    response = client.get('/')
    assert response.status code == 200
   rv_showSumm = client.post('/showSummary', data={"email":"john@simplylift.co"}, follow_redirects=True)
   assert rv_showSumm.status_code==200
   data = rv showSumm.data.decode()
   print(data)
   assert competitions[0]['name'] in data
    assert clubs[0]['email'] in data
    rv_book = client.qet('/book/Spring%20Festival/She%20Lifts',follow_redirects=True)
    assert rv_book.status_code==200
    rv purchasePlaces = client.post('/purchasePlaces', data =dict(club = 'Simply Lift', competition='Spring Festival', places = 2), follow redirects = True)
    assert rv_purchasePlaces.status_code==200
    data =rv purchasePlaces.data.decode()
   assert 'Number of Places: 22' in data
   assert 'Points available: 7' in data
    assert 'Great-booking complete!' in data
    rv logout = client.get("/logout", follow redirects=True)
    assert rv_logout.status_code == 200
    data = rv_logout.data.decode()
    print(data)
    assert "Welcome to the GUDLFT Registration Portal!" in data
```

### **Test Logout**

```
#Test logout

Run|Debug|Show in Test Explorer

def test_logout_user(client):

rv = client.get("/logout", follow_redirects=True)

assert rv.status_code == 200

data = rv.data.decode()

print(data)

assert "Welcome to the GUDLFT Registration Portal!" in data
```

### Welcome to the GUDLFT Registration Portal!

Please enter your secr	retary email to continue:	
Email:	Enter	
Scoreboard		

### Tableau des scores

Afficher un tableau des scores sans avoir à se connecter

#### **Welcome to the GUDLFT Registration Portal!**

Please enter your secre	tary email to continue
Email:	Enter
Scoreboard	

#### Welcome to the Score and Points Portal!

#### Listes des clubs:

 Name: Simply Lift email: john@simplylift.co

points: 13

Name : Iron Temple

email: admin@irontemple.com

points: 1

Name : She Lifts

email: kate@shelifts.co.uk

points: 12

logout

# Coverage

coverage run -m pytest coverage html

Module	statements	missing	excluded	coverage
server.py	63	1	0	98%
tests\initpy	9	0	0	100%
tests\test_server.py	97	0	0	100%
Total	160	1	0	99%

# Locust

locust -f ./tests/performance\_tests/locust.py --host http://127.0.0.1:5000 --users 500 --spawn-rate 500 Regarder l'onglet Charts de http://localhost:8089

Туре	Name	# Requests	# Fails	Median (ms)	90%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s
GET		254	254	2100	3100	2470	2022	3144		26.57	26.57
GET	/book/Spring%20Festival/Simply%20Lift	255	255	2100	3100	2515	2023	3130		30.29	30.29
GET	/logout	275	275	2100	3100	2505	2025	3138		30.43	30.43
POST	/showSummary	283	283	2100	3100	2471	2028	3118			31
	Aggregated	1067	1067	2100	3100	2490	2022	3144	0	118.29	118.29

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