Winer

Test Summary Report

Versione 1.0.0



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Test Summary Report

Revision History

Data	Versione	Descrizione
07/02/2022	1.0.0	Creazione Test Summary Report

1. Introduzione

Questo documento si propone di fare un punto della situazione dei vari test implementati.

Grazie allo sviluppo del sistema secondo il dependency injection pattern, ci è stato possibile isolare i sottosistemi per testarli singolarmente andando ad iniettare nel modulo principale solo quelli desiderati o eventuali mock.

Per testare il corretto flusso dell'applicazione si è deciso di non "mockare" le chiamate al database nei test di integrazione, quindi abbiamo configurato le istanze di test affinché si connettessero ad un'istanza di database creata appositamente per eseguire i test.

2. Resoconto

2.1 Test Autenticazione

```
beforeAll(async () => {
    const moduleFixture: TestingModule = await Test.createTestingModule({
        AuthModule,
        ConfigModule.forRoot({
          envFilePath: '.env.test',
          load: [env],
        TypeOrmModule.forRootAsync({
          useFactory: async (configService: ConfigService) => ({
            database: configService.get('db.schema'),
entities: [join(__dirname, '...', 'src', '**', '**.entity.{ts,js}')],
            synchronize: true,
debug: configService.get('db.debug'),
          }),
    }).compile();
    app = moduleFixture.createNestApplication();
    app.useGlobalPipes(
      new ValidationPipe({
    await app.init();
  });
```

Inizializzazione modulo di test autenticazione

```
it('should create an admin user', () => {
  return request(app.getHttpServer())
                               .post('/auth/register')
.send(validUser)
.expect(201);
         it('should not create the same user', () => {
  return request(app.getHttpServer())
  .post('/auth/register')
  .send(validUser)
          it('should fail creating a user', () => {
  return request(app.getHttpServer())
  .post('/auth/register')
                               .send(invalidUser)
.expect(400);
          it('should complain about email format', () => {
  return request(app.getHttpServer())
                              .post('/auth/register')
.send({
   email: 'notValidemail',
   password: validUser.password,
         it('should issue an access_token', (done) => {
  request(app.getHttpServer())
    .post('/auth/login')
    .send(validUser)
                              .expect(201)
.then((response) => {
         it('should return 401 for invalid user', () => {
  return request(app.getHttpServer())
    .post('/auth/login')
    .send(invalidUser)
    .expect(401);
          it('should return an admin user profile', (done) => {
  const responsePromise = request(app.getHttpServer())
                            request(app.getHttpServer())
    .get('/auth/profile')
    .set('Authorization', 'Bearer' + response.body.access_token)
    .expect(200)

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                                                     .then((profile) => {
                                                                  profile.body.roles.includes(PlatformRole.MANAGER),
'The profile does not contin a manager platform role',
         it('should return 401 for invalid token', () => {
  return request(app.getHttpServer())
    .get('/auth/profile')
    .set('Authorization', 'Bearer not-valid-token')
    .expect(401);
```

Test Cases Autenticazione

2.2 Test Carrello

```
• • •
  beforeAll(async () => {
    const moduleFixture: TestingModule = await Test.createTestingModule({
      imports: [
        AuthModule,
         ConfigModule.forRoot({
           load: [env],
         TypeOrmModule.forRootAsync({
           useFactory: async (configService: ConfigService) => ({
             port: configService.get('db.port'),
             database: configService.get('db.schema'),
entities: [join(__dirname, '...', 'src', '**', '**.entity.{ts,js}')],
             synchronize: true,
debug: configService.get('db.debug'),
             dropSchema: true,
keepConnectionAlive: true,
             migrations: [join(__dirname, 'migrations', '**.ts')],
           }),
    }).compile();
    app = moduleFixture.createNestApplication();
    await initTestApp(app);
    const loginReponse = await performLogin(app);
  });
```

Inizializzazione modulo di test carrello

```
• • •
  it('should get an empty cart', async () => {
    const response = await request(app.getHttpServer())
    assert(response.body instanceof Array);
  it('should fail adding a non-existing wine to the cart', async () => {
      .post('/cart')
.set('Authorization', bearerToken)
       winePK: 'non-existing-wine',
vintage: 2020,
      .set('Authorization', bearerToken)
        winePK: 'capatosta',
    const res = await request(app.getHttpServer())
      .patch('/cart/capatosta/2016')
      .delete('/cart/capatosta/2016')
```

Test Cases Carrello

2.3 Test Pagamenti

```
beforeAll(async () => {
  const moduleFixture: TestingModule = await Test.createTestingModule({
      AuthModule,
      PaymentModule, ConfigModule.forRoot({
         isGlobal: true,
ignoreEnvFile: false,
         envFilePath: '.env.test',
         load: [env],
       TypeOrmModule.forRootAsync({
         useFactory: async (configService: ConfigService) => ({
           database: configService.get('db.schema'),
entities: [join(__dirname, '...', 'src', '**.entity.{ts,js}')],
           debug: configService.get('db.debug'),
           dropSchema: true,
keepConnectionAlive: true,
           migrationsRun: true,
migrations: [join(__dirname, 'migrations', '**.ts')],
         inject: [ConfigService],
  }).compile();
  app = moduleFixture.createNestApplication();
  await initTestApp(app);
  const loginReponse = await performLogin(app);
```

Inizializzazione modulo di test pagamenti

```
it('should create an order after payment', async () => {
    await request(app.getHttpServer())
      .set('Authorization', bearerToken)
      .send({
       winePK: 'capatosta',
       vintage: 2016,
      })
      .expect(201);
    return request(app.getHttpServer())
      .post('/payment')
      .set('Authorization', bearerToken)
      .send({
        creditCardNumber: '4242424242424242',
       cvc: '333',
address: '5th Avenue',
      })
      .expect(201);
  });
  it('should invalidate credit card number', () => {
    return request(app.getHttpServer())
      .post('/payment')
      .set('Authorization', bearerToken)
      .send({
      })
      .expect(400);
  });
  it('should invalidate cvc', () => {
    return request(app.getHttpServer())
      .post('/payment')
      .set('Authorization', bearerToken)
      .send({
        creditCardNumber: '4242424242424242',
      })
      .expect(400);
  });
```

Test Cases Pagamenti

2.4 Test Catalogo

```
beforeAll(async () => {
    const moduleFixture: TestingModule = await Test.createTestingModule({
        AuthModule,
        WineModule,
        ConfigModule.forRoot({
          isGlobal: true,
ignoreEnvFile: false,
        }),
         TypeOrmModule.forRootAsync({
          useFactory: async (configService: ConfigService) => ({
             password: configService.get('db.password'),
             database: configService.get('db.schema'),
entities: [join(__dirname, '..', 'src', '**', '**.entity.{ts,js}')],
             synchronize: true,
debug: configService.get('db.debug'),
            migrationsRun: true,
migrations: [join(__dirname, 'migrations', '**.ts')],
           inject: [ConfigService],
    }).compile();
    app = moduleFixture.createNestApplication();
    await initTestApp(app);
    const loginResponse = await performLogin(app);
    bearerToken = 'Bearer ' + loginResponse.body.access_token;
  });
```

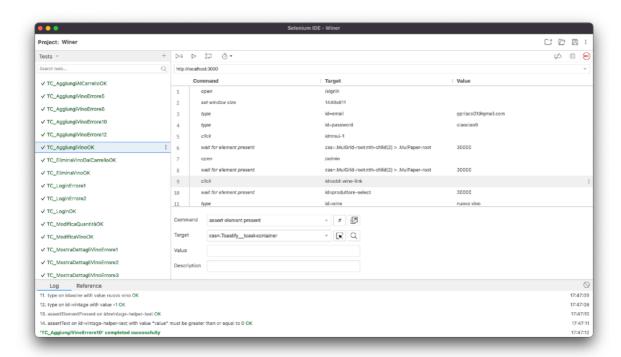
Inizializzazione modulo di test catalogo

```
• • •
  it('should get the catalog', async () => {
   const response = await request(app.getHttpServer())
      .get('/wine?page=1')
      .expect(200);
   assert(response.body.currentPage === 1);
   assert(response.body.data instanceof Array);
 });
  it('should create a wine', () => {
   return request(app.getHttpServer())
      .post('/wine')
      .set('Authorization', bearerToken)
      .send({
       winegrapes: [],
       availability: 40,
      .expect(201);
 });
 it('should get wine details', async () => {
   const response = await request(app.getHttpServer())
      .get('/wine/capatosta/2016')
      .expect(200);
   assert(response.body.wine === 'capatosta');
   return;
 });
 it('should update an existing wine', () => {
   return request(app.getHttpServer())
      .patch(`/wine/capatosta/2016`)
      .set('Authorization', bearerToken)
      .send({
      } as UpdateWineDto)
      .expect(200);
 });
  it('should delete a wine', () => {
   return request(app.getHttpServer())
      .delete('/wine/nuovo-vino/2017')
      .set('Authorization', bearerToken)
      .expect(200);
  });
```

Test Cases Catalogo



Output dell'esecuzione dei test



Test con Selenium

L'esecuzione degli integration tests ci ha permesso, oltre a verificare che non ci fossero bug nei sottosistemi, di testare l'intera logica di business della nostra applicazione.