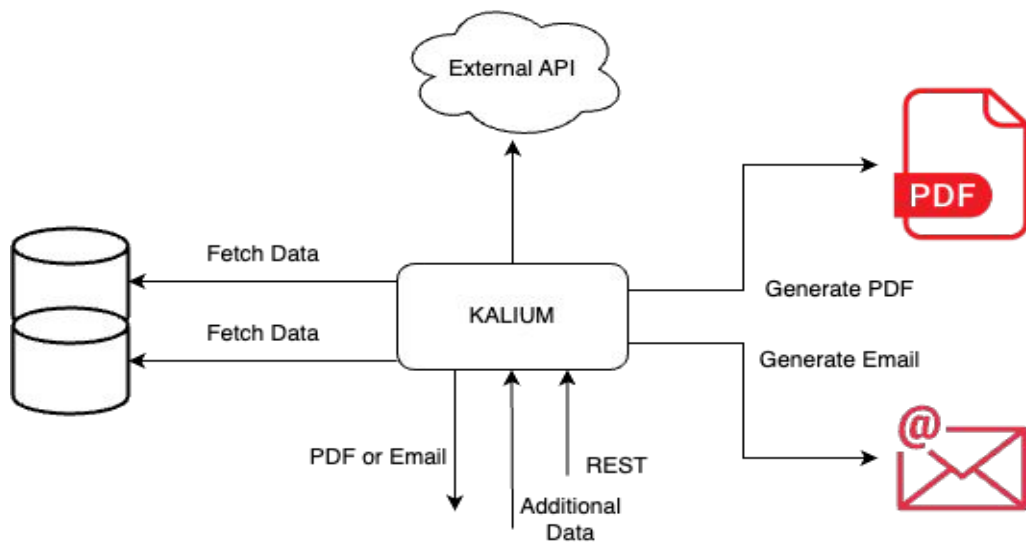


Test Doubles and Acceptance Tests

Let's write down acceptance test and introduce test doubles in a microservice application

The microservice



Example of a request

```
1 import { ApplicationTemplateFieldType, ApplicationTemplateField } from '@prisma/client';
2
3 const fields = [
4   { name: 'Tribunale', type: 'draw', source: '(prisma:application:application.court.name:$id)', posX: 208, posY: 102, fontSize: 14, page: 0, color: 'black' },
5   { name: 'Nome Richiedente', type: 'draw', source: '(prisma:application:application.applicant.lastName:$id)', posX: 142, posY: 240, fontSize: 12, page: 0 },
6   { name: 'Nome Richiedente', type: 'draw', source: '(prisma:application:application.applicant.firstName:$id)', posX: 224, posY: 240, fontSize: 12, page: 0 },
7   { name: 'Città di nascita Richiedente', type: 'draw', source: '(prisma:application:application.applicant.birthInfo.city:$id)', posX: 94, posY: 264, fontSize: 12, page: 0 },
8   { name: 'Data di nascita Richiedente', type: 'draw', source: '(prisma:application:application.applicant.birthInfo.date:$id)', posX: 382, posY: 240, fontSize: 12, page: 0 },
9   { name: 'Codice fiscale Richiedente', type: 'draw', source: '(prisma:application:application.applicant.fiscalCode:$id)', posX: 106, posY: 310, fontSize: 12, page: 0 },
10  { name: 'Città di residenza Richiedente', type: 'draw', source: '(prisma:application:application.applicant.residenceAddress.city:$id)', posX: 290, posY: 264, fontSize: 12, page: 0 },
11  { name: 'Indirizzo di residenza Richiedente', type: 'draw', source: '(prisma:application:application.applicant.residenceAddress.street_1:$id)', posX: 98, posY: 290, fontSize: 12, page: 0 },
12  { name: 'Città di domicilio Richiedente', type: 'draw', source: '(prisma:application:application.applicant.domicileAddress.city:$id)', posX: 358, posY: 310, fontSize: 12, page: 0 },
13  { name: 'Indirizzo di domicilio Richiedente', type: 'draw', source: '(prisma:application:application.applicant.domicileAddress.street_1:$id)', posX: 98, posY: 334, fontSize: 12, page: 0 },
14  { name: 'Data rifiuto', type: 'draw', source: '(prisma:application:application.applicant.rejectedAt:$id)', posX: 412, posY: 618, fontSize: 12, page: 0 },
15  { name: 'Percentuale invalidità', type: 'draw', source: '(prisma:application:application.applicant.invalidity:$id)', posX: 316, posY: 638, fontSize: 12, page: 0 },
16  { name: 'Note motivazionali', type: 'draw', source: '(prisma:application:application.notes.motivationNote:$id)', posX: 80, posY: 140, fontSize: 10, page: 2, color: 'black' },
17  { name: 'Note conclusive', type: 'draw', source: '(prisma:application:application.notes.conclusionNote:$id)', posX: 80, posY: 540, fontSize: 10, page: 2, color: 'black' },
18 ];
19
20 export const RICORSO_PENSIONE_INVALIDITA_100_PERCENTUALE = {
21   id: 12,
```

HTTP Request
/kalium/application/2/PENS_INV_100

```
modelData {
  application: {
    id: 2,
    content: '',
    presentationDate: 2024-04-03T07:24:42.651Z,
    type: 'RICORSO_PENS_INV_CIVILE_100_PERCENTO',
    status: 'CREATO',
    search: 'Mario Rossi Mario R5SMRA75R1SH269L',
    applicationTemplateId: 12,
    applicantId: 4,
    spouseId: null,
    sonId: null,
    noted: null,
    assignedInpsId: 179,
    assignedPatronageId: 1,
    assignedLawyerOrderId: null,
    assignedCourtId: null,
    assignedCourtSectionId: null,
    userId: 4,
    assignedLawyerId: 5,
    domicileLawyerId: 5,
    transmittedAt: 2024-04-03T07:24:15.655Z,
    rejectedAt: null,
    expiredAt: null,
    appealedAt: null,
    approvedAt: null,
    createdAt: 2024-04-03T07:24:42.651Z,
    updatedAt: 2024-04-03T07:29:08.489Z,
    court: null,
    applicant: {
      id: 4,
      type: 'APPLICANT',
      search: 'Mario Rossi R5SMRA75R1SH269L MD12354323',
      firstName: 'Mario',
      lastName: 'Rossi',
      sex: 'MALE',
      fiscalCode: 'R5SMRA75R1SH269L',
      documentCode: 'MD12354323',
      birthInfoId: 4,
      incomeInfoId: null,
      domicileAddressId: null,
      residenceAddressId: null,
      birthInfo: {Object},
      incomeInfo: {Object},
      residenceAddress: null,
      domicileAddress: null
    },
    spouse: null,
    son: null,
  },
}
```

field.fontSize, page: field.page, color: field.color ?? null, datatype: field.datatype ?? null, format: field.format ?? null } },

HTTP Response

SEZ. LAVORO E PREVIDENZA

RICORSO PER ACCERTAMENTO TECNICO PREVENTIVO

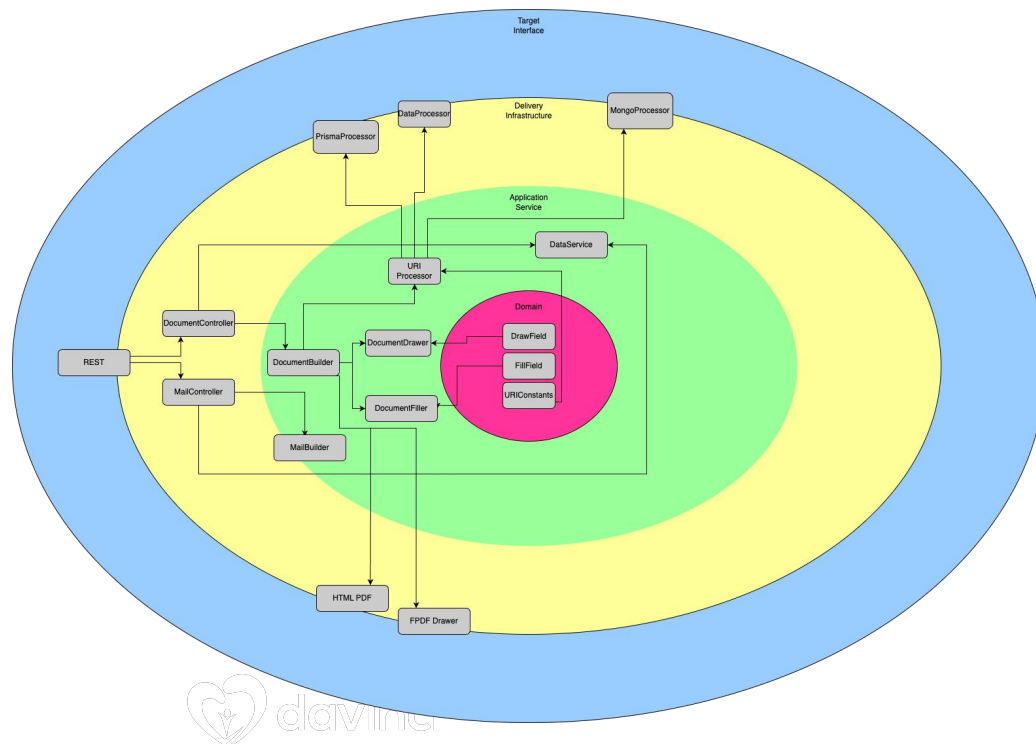
EX ART.445 bis c.p.c.

OGGETTO: RICONOSCIMENTO PENSIONE DI INVALIDITA' CIVILE (100%)

Il signor	Rossi	Mario	nato il	05/06/75
a	Ribera	e residente a	Ribera	
in	Via Roma 2			
c.f.:	R5SMRA75H05H269T	elett.le dom.to a	Ribera	



Layers



Unit Test

For URI processor

- Should process immediate URI
- Should recover data from URI
- Should handle inconsistent URI
- Should process iterative URI
- Should handle hook for URI

For DocumentDrawer

- Should add text in pdf
- Should add text in pdf in certain position
- Should add text in pdf with color
- Should add text in pdf with font
- Should add multiple text in pdf in certain position, gap and spacing

For DocumentFiller

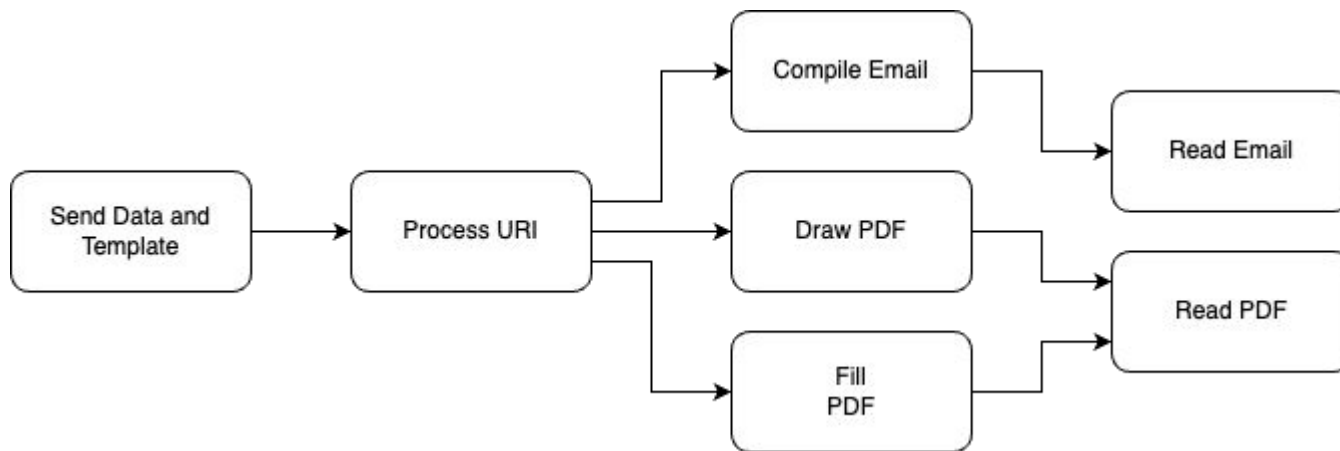
- Should add text in pdf in a specific placeholder
- Should add multiple text in pdf in a placeholder using progressions rules

For MailComposer

- Should intercept URI text in html file
- Should replace URI text with the correct text



Acceptance Test



Test doubles

Stubs

MongoProcessor

PrismaProcessor

DataProcessor

Commands

HTML PDF

FPDF Drawer



Thanks

Benefit of use Acceptance Test and Test Doubles

- Guaranteed isolations
- Avoid Connascence
- Helps to complete single functionalities before add a new one
- Fun