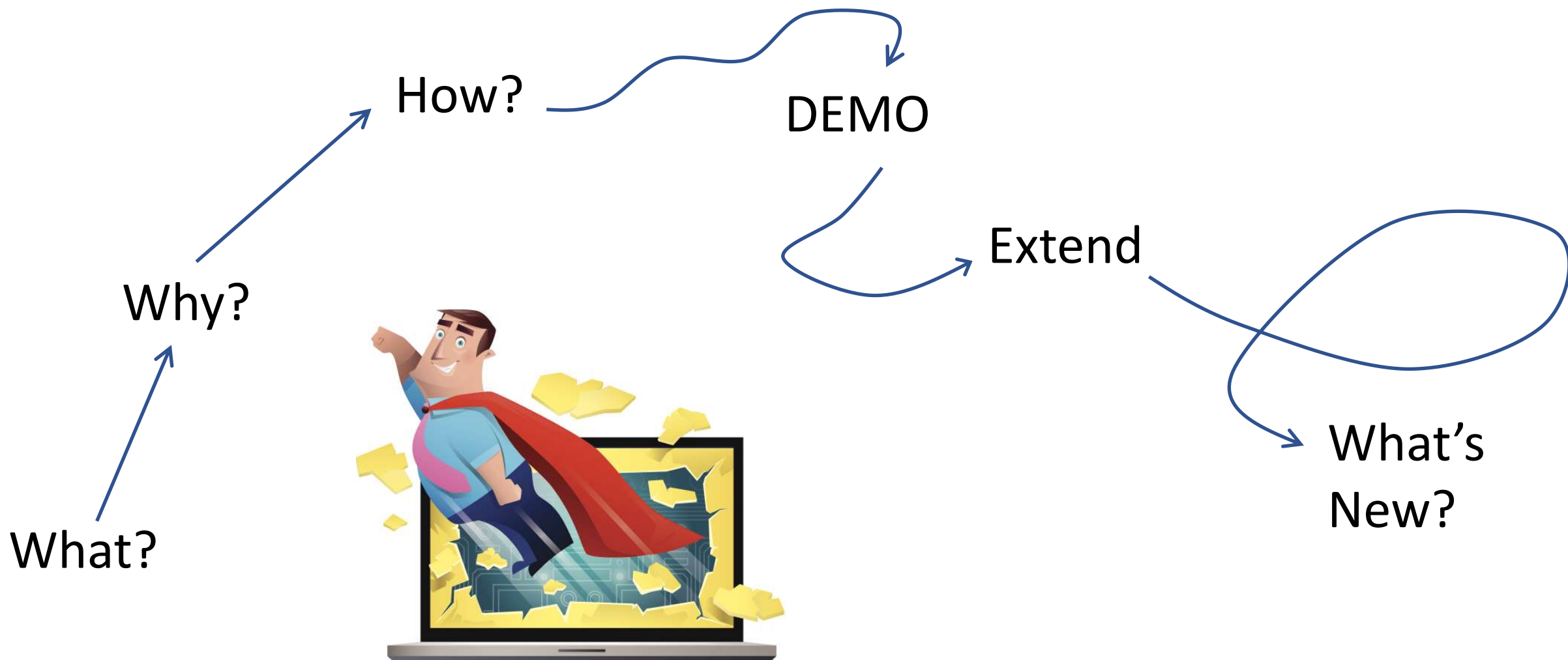


How can SAP's Cloud Application Programming Model (CAP) Give Developers Super-powers?

Mike Doyle
Independent, Sydney



What is CAP?

“The *SAP Cloud Application Programming Model* (CAP) is a framework of **languages, libraries,** and **tools** for building enterprise-grade services and applications. It guides developers along a ‘golden path’ of proven best practices and a great wealth of out-of-the-box solutions to recurring tasks”

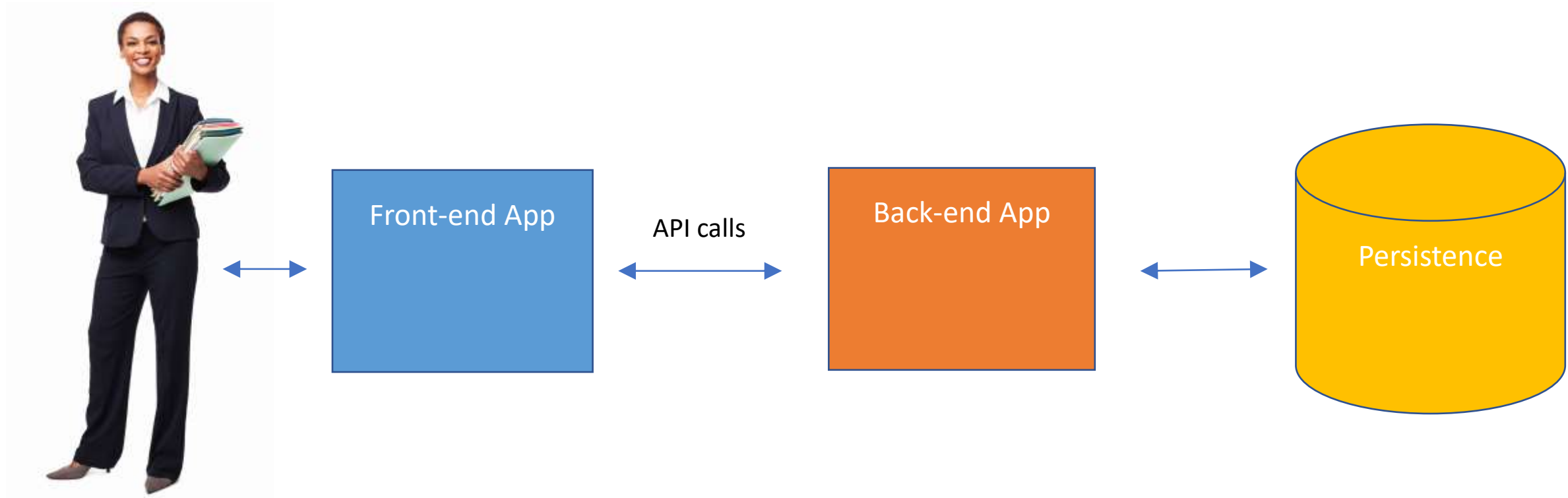
cap.cloud.sap/docs/about/

What is CAP?

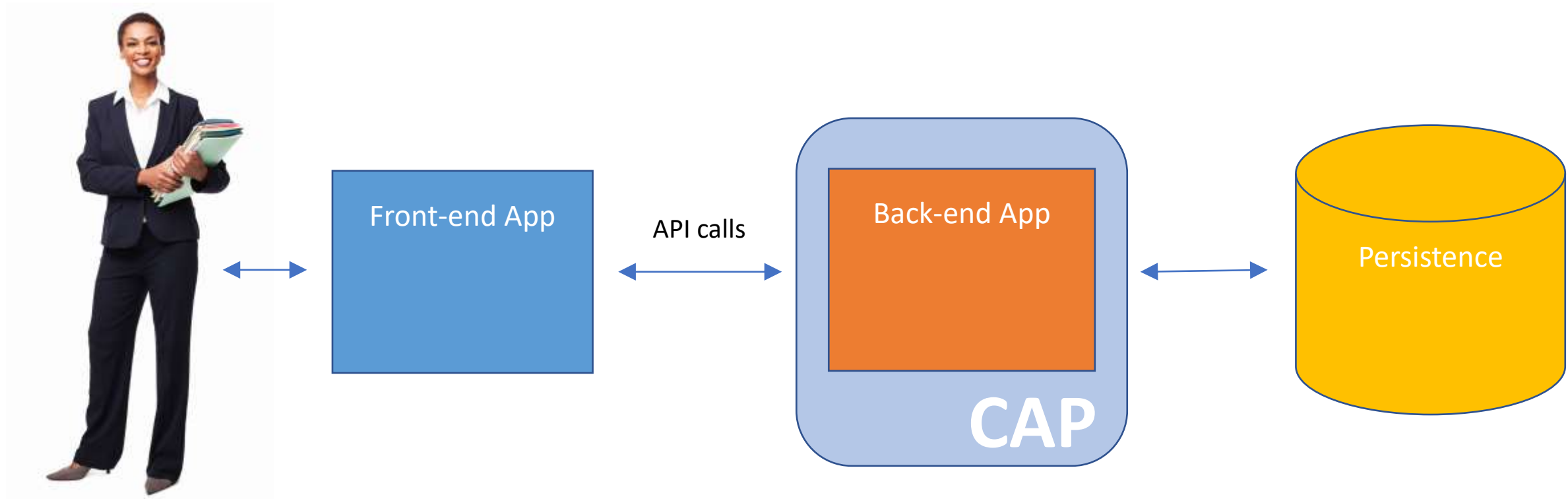
- ✓ CAP massively speeds up development of application Back-ends
- ✓ By promoting consistency it lowers support costs too



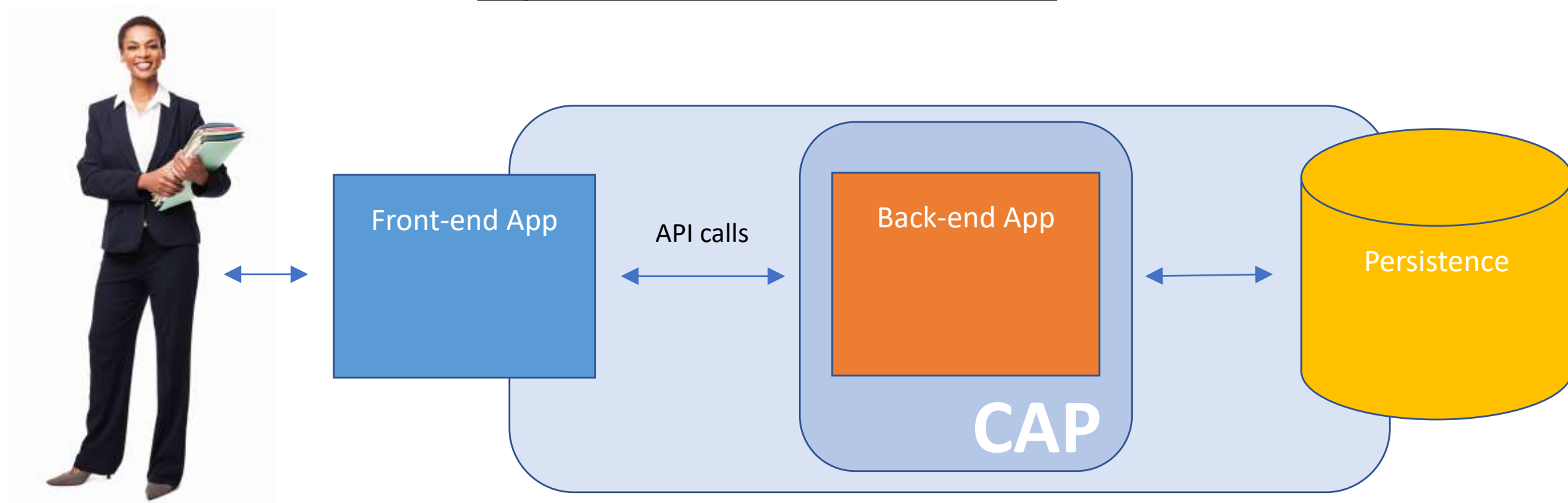
Back-end vs. Front-end



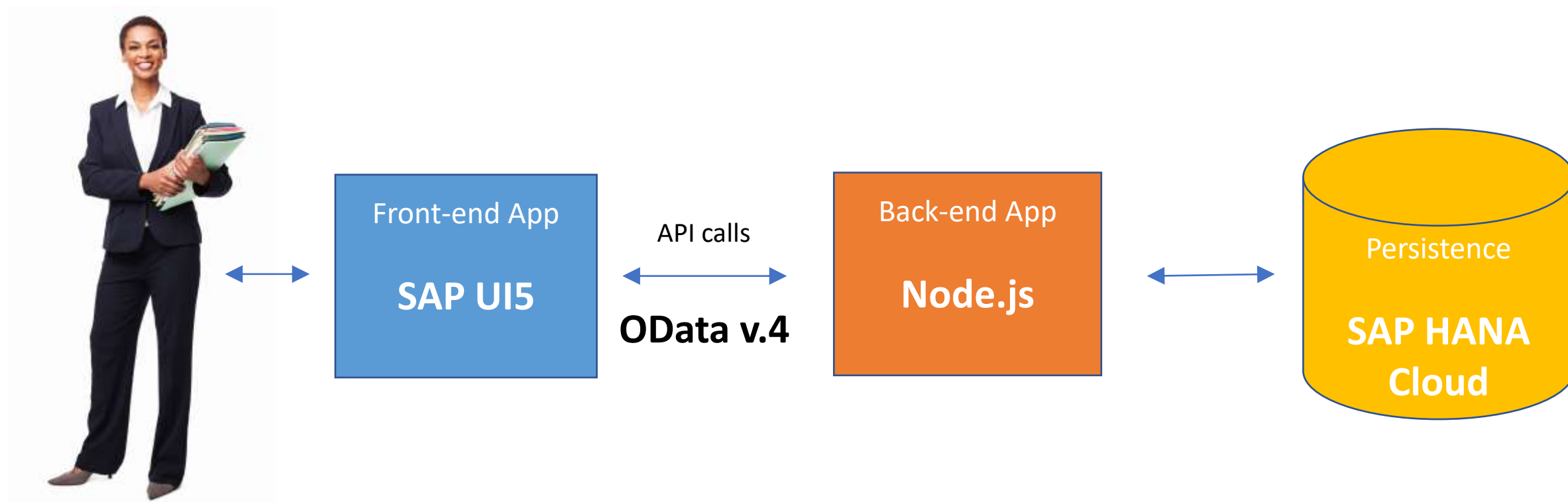
CAP is for Back-ends...



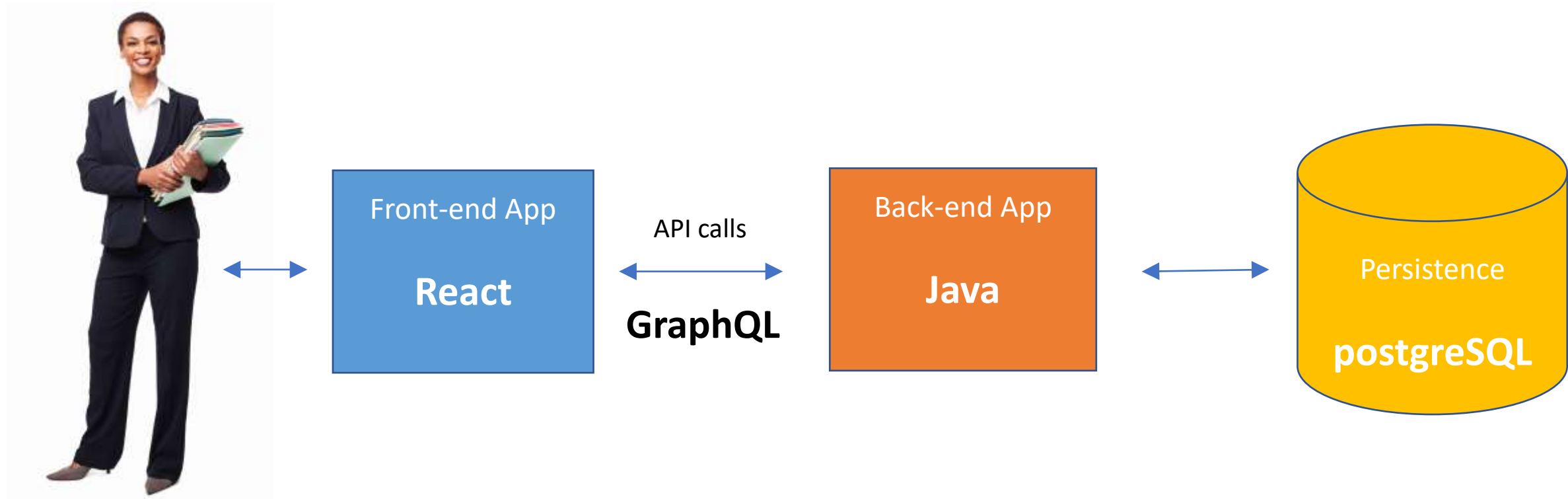
...but can also deploy to the persistence layer & 'drive' Front-ends



Common Stack



Alternate Stack



NB No lock in!

Flexibility contd.

Deploy to

- BTP Cloud Foundry runtime
- HANA on-prem
- BTP Kyma runtime

Use

- Visual Studio Code
- SAP Business Application Studio
- Something else



Layers of abstraction

Machine Code

Networking

Assembler

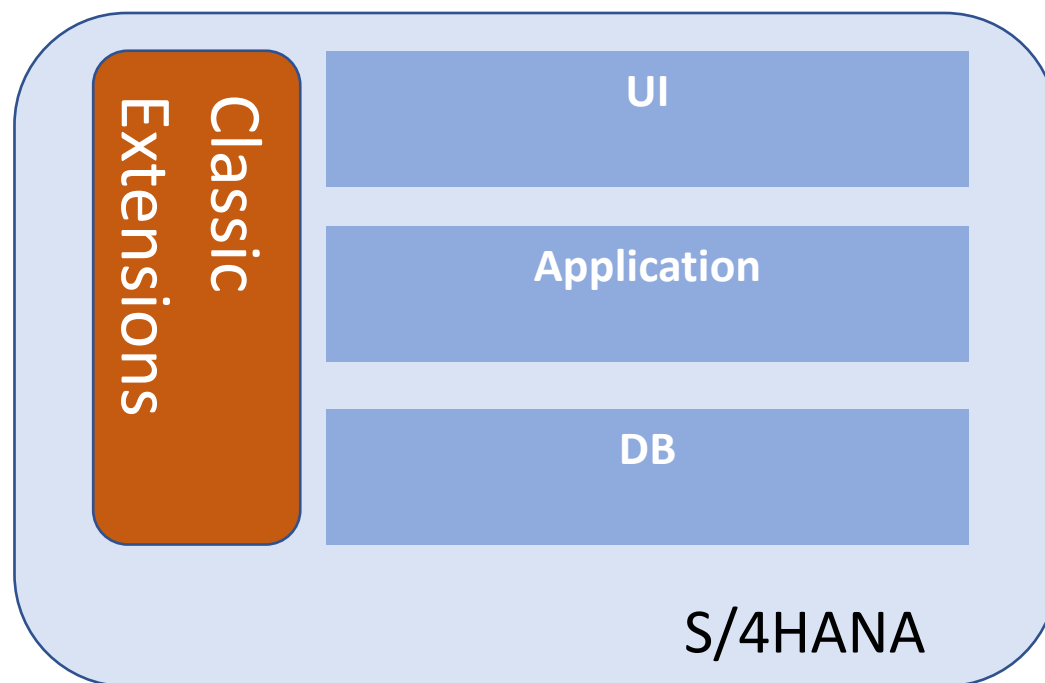
Instruction sets

Garbage
collection

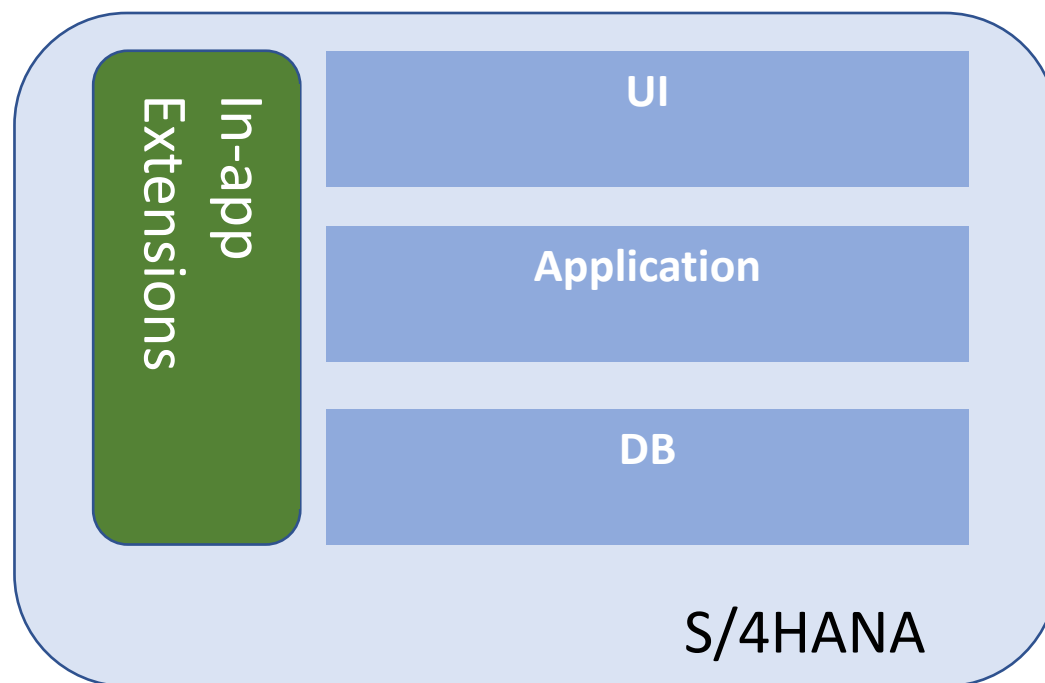
Memory

Hardware

Why does CAP Exist?

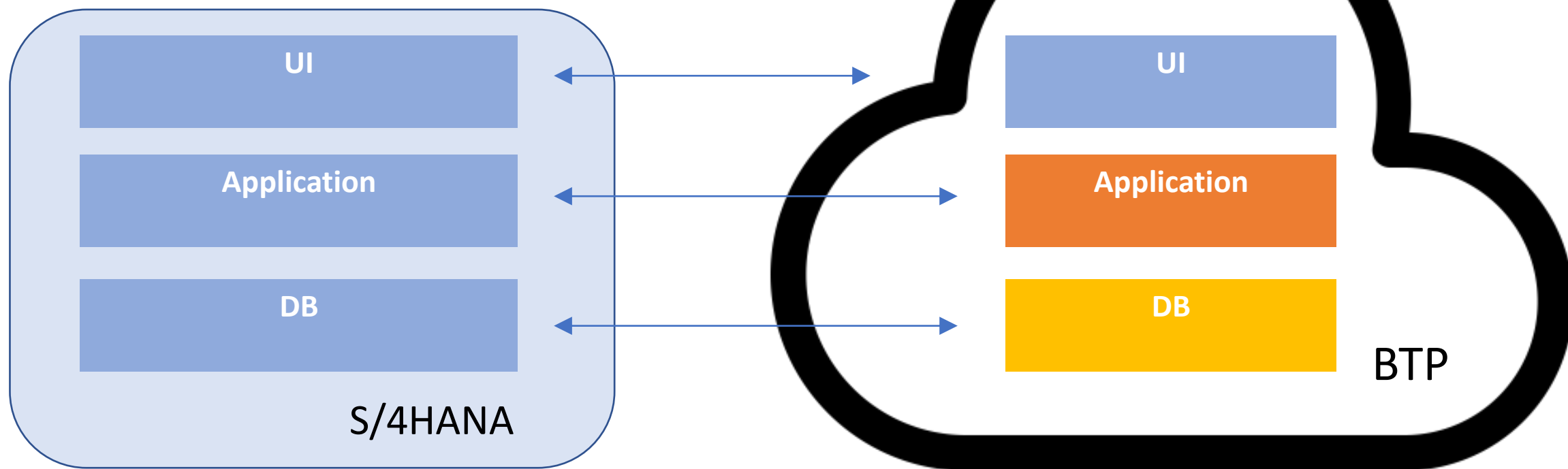


Why does CAP Exist?



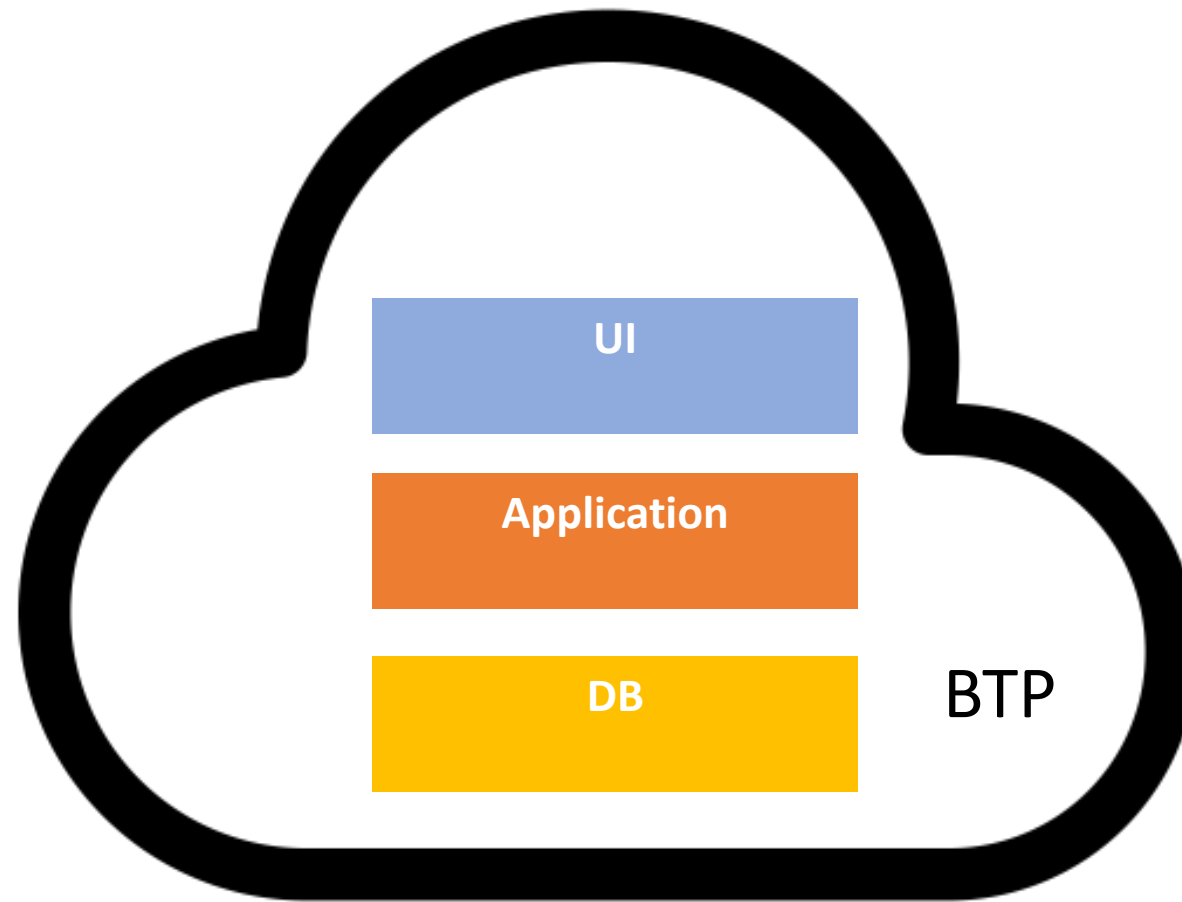
Side-by-side Extensions

”Keep the core clean!”



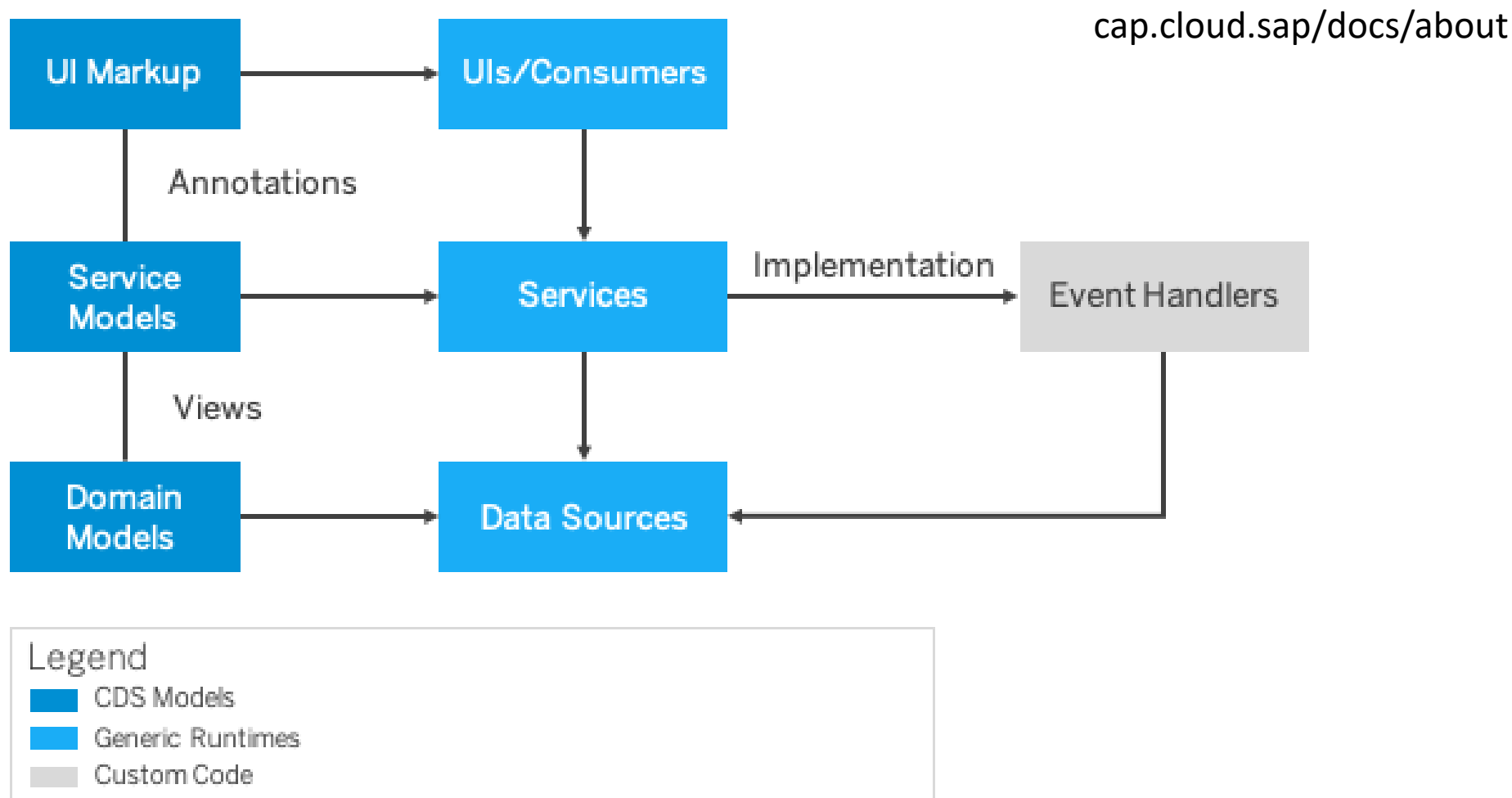
Cloud by Kimmi Studio from NounProject.com

Why does CAP Exist?



Cloud by Kimmi Studio from NounProject.com

How does it work?





Demo Scenario

How does it work?

1. Data Model

```
entity DeskTypes : CodeList {  
  key code : String(5);  
}
```

```
entity Offices : CodeList {  
  key code : String(3);  
}
```

```
entity Bookings : cuid, managed {  
  bookingDate : Date;  
  deskType : association to DeskTypes;  
  office : association to Offices;  
  email : String(240);  
}
```

How does it work?

2. Services

```
service Admin {  
    entity DeskTypes as projection on deskbookings.DeskTypes  
    entity Offices as projection on deskbookings.Offices  
}
```

```
service Booking {  
    entity Bookings as projection on deskbookings.Bookings  
}
```

How does it work?

3. Event handlers

```

srv.before ('CREATE', 'Bookings', async req => {
  const { bookingDate } = req.data
  You, 17 minutes ago • refactor validation
  const today = () => {
    const now = new Date()
    now.setHours(0)
    now.setMinutes(0)
    now.setSeconds(0)
    now.setMilliseconds(0)
    return now
  }

  if (today().getTime() > Date.parse(bookingDate))
    req.error(400, "Please enter current or future date")
})

```

How does it work?

4. Annotate

```
annotate book.Bookings with {  
  bookingDate @Common.Label: 'Date';  
  deskType @Common : {  
    Label: 'Desk Type',  
    Text: deskType.name  
  };  
  office @Common : {  
    Label: 'Office',  
    Text: office.name  
  };  
  email @Common.Label: 'Email Address';  
}
```




Demo Time



Details?

cap.cloud.sap

CAP Re-use

1. Models

using from 'path/source-model.cds'

2. Service
Impl.

extend SomeEntity with {
extraField : String(20)
}

3. Annotations

CAP Re-use

1. Models

2. Service
Impl.

3. Annotations

```
const cds = require('@sap/cds')
const base_impl = require ('other-package/srv/service-impl')

module.exports = cds.service.impl(async (srv) => {

  srv.after('READ', 'SomeEntity', async (resultsIn, req) => {

  })

  await base_impl.call (this,srv)
})
```


CAP Re-use

1. Models

2. Service
Impl.

3. Annotations

```
annotate service.FormConfig with @(
  UI:{
    TextArrangement : #TextFirst,
    LineItem : [
      ...,
      {
        $Type : 'UI.DataField',
        Value : extraField,
      }
    ]
  }
)
```



What's New?

Multi-tenancy

Feature Toggles

EXtensibility

GraphQL

Kyma

repl



How to Connect with Me

Li: www.linkedin.com/in/mikedoyle

Twtr: @MikeEDoyle



SAP Business Application Studio - deskbooking

New Project from Template

New Folder

New Window Alt+Shift+N

Open... Ctrl+Alt+O

Open Workspace... Ctrl+Alt+W

Open Recent Workspace... Ctrl+Alt+R

Save Workspace As...

Save Ctrl+S

Save All Ctrl+Alt+S

Save As... Ctrl+Shift+S

✓ Auto Save

Upload Files...

Download

Preferences >

Close Editor Alt+W

Close Workspace

⚙️ .env1

package-lock.json

package.json

 README.md

 `sqlite.db`

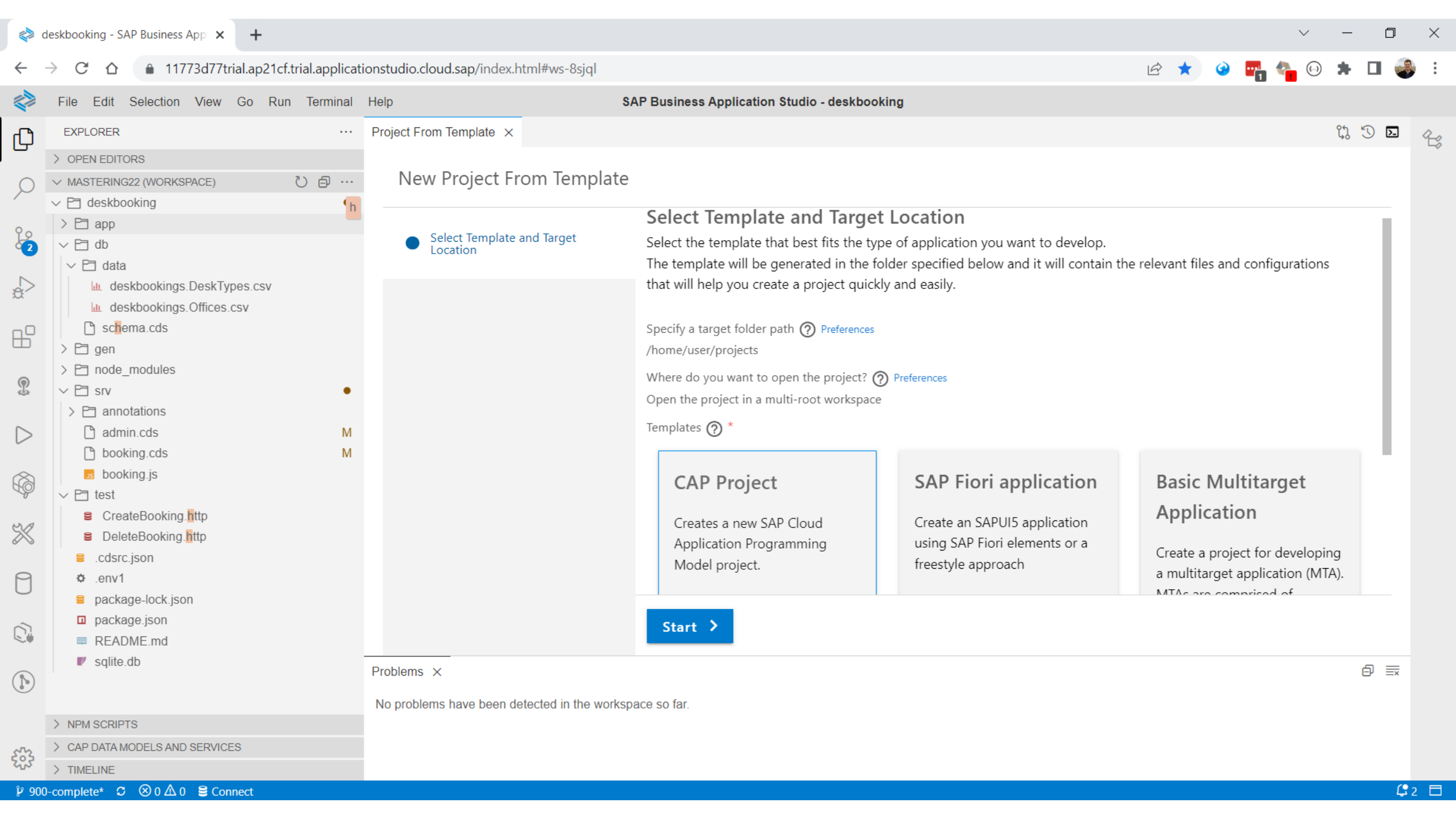
> NPM SCRIPTS

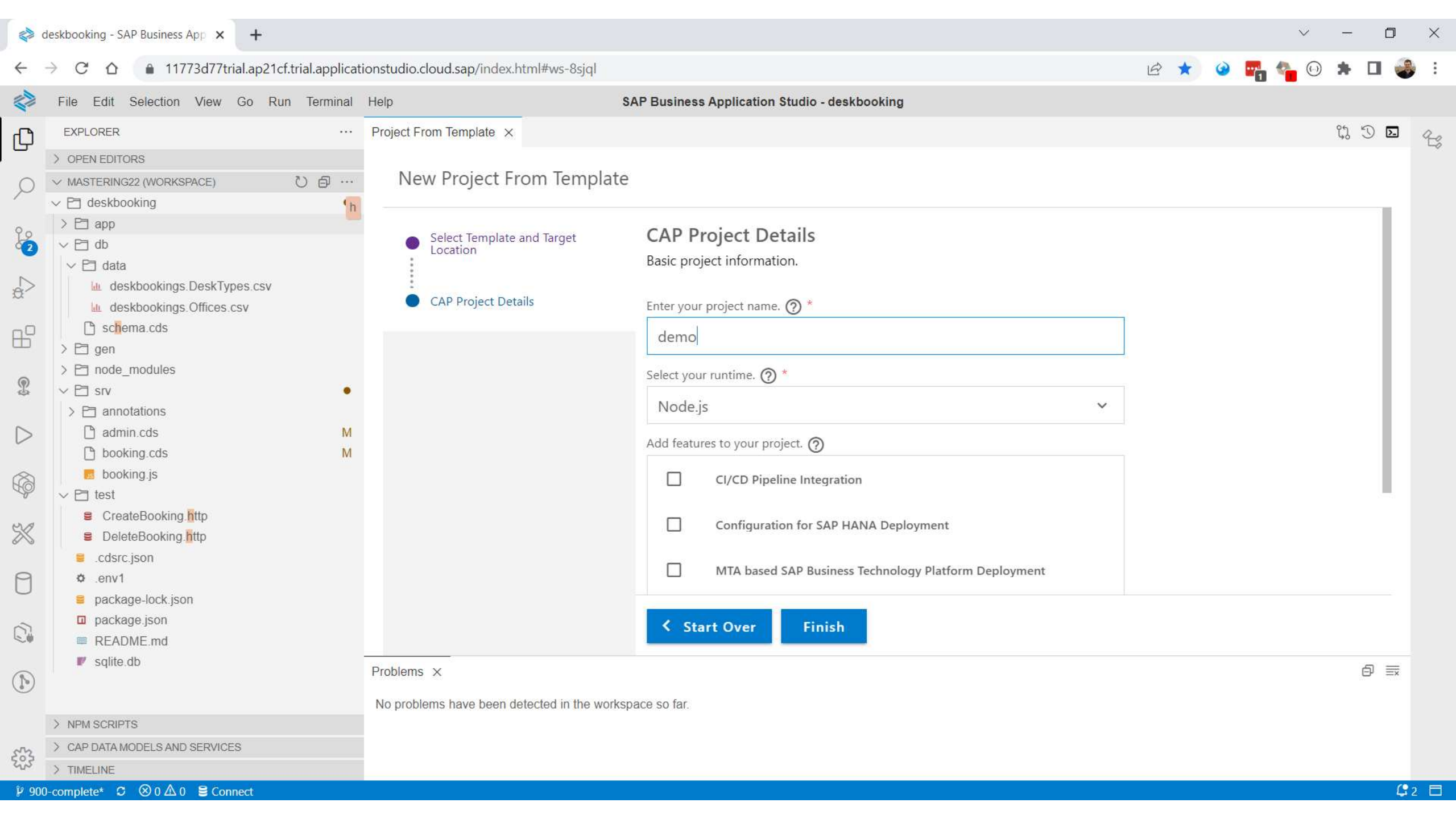
> CAP DATA MODELS AND SERVICES

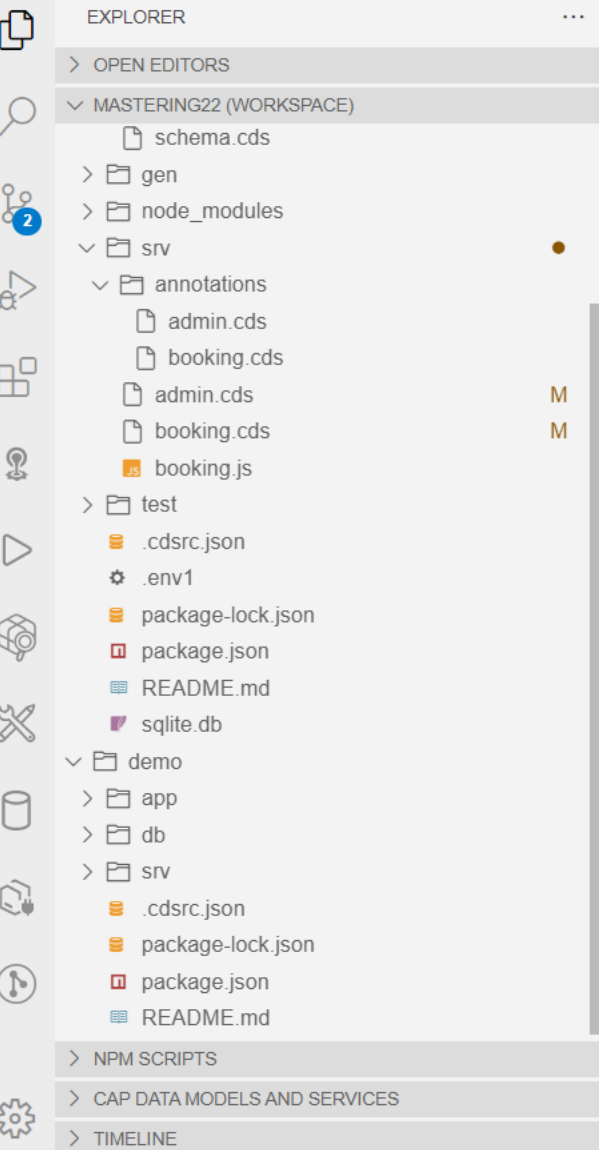
> **TIMELINE**

Problems x

No problems have been detected in the workspace so far.







Problems x

No problems have been detected in the workspace so far.

① A service is listening to port 4004.

[Open in a New Tab](#)

EXPLORER

> OPEN EDITORS

MASTERING22 (WORKSPACE)

- > gen
- > node_modules
- srv
 - annotations
 - admin.cds
 - booking.cds
 - booking.js
- test
 - CreateBooking.http
 - DeleteBooking.http
 - .cdsrc.json
 - .env1
 - package-lock.json
 - package.json
 - README.md
 - sqlite.db
- demo
 - app
 - db
 - schema.cds
 - node_modules
 - srv
 - .cdsrc.json
 - package-lock.json
 - package.json

> NPM SCRIPTS

> CAP DATA MODELS AND SERVICES

> TIMELINE

schema.cds x

demo > db > schema.cds > ...

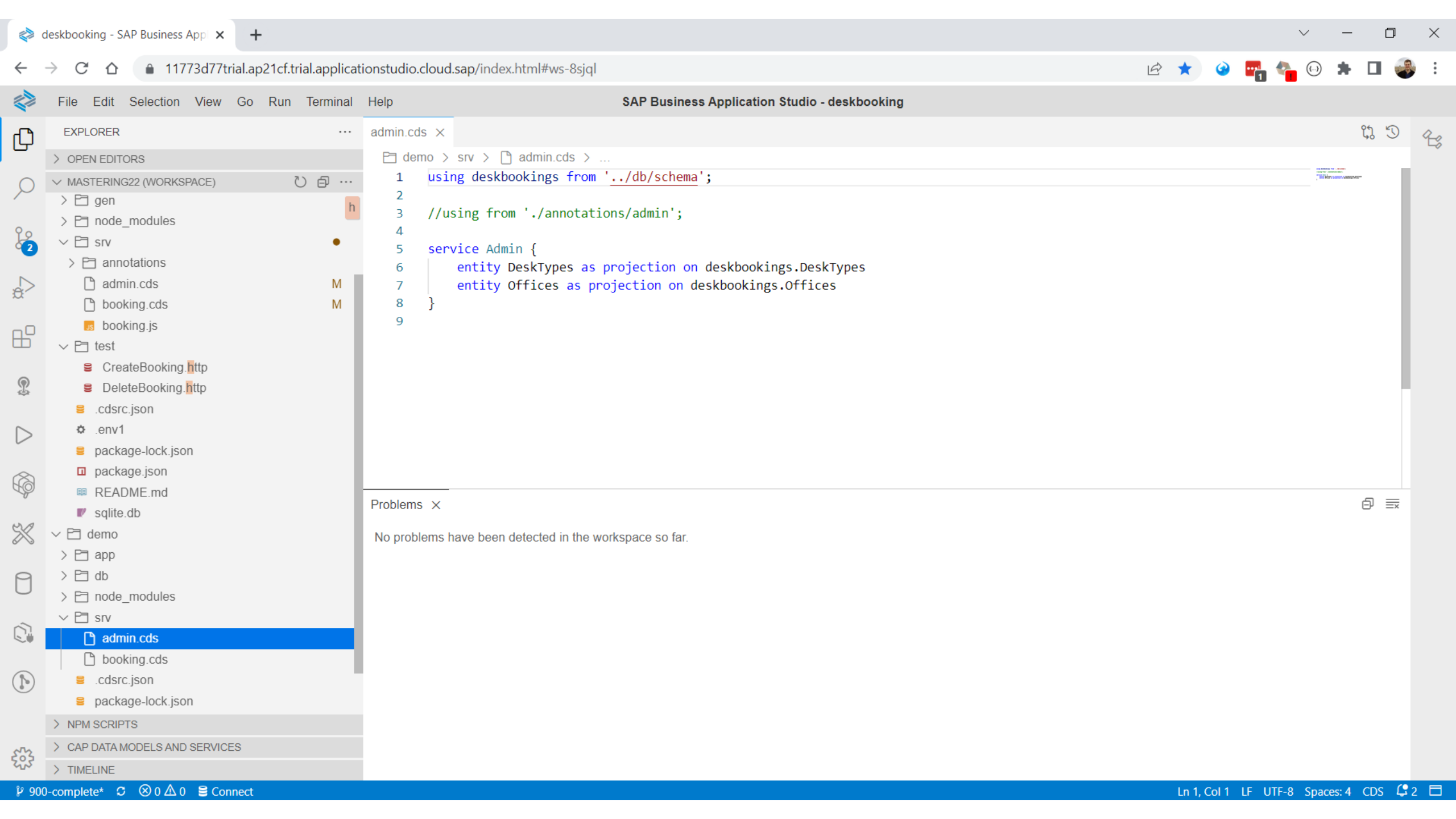
```

1 using { sap.common.CodeList,
2     managed,
3     cuid } from '@sap/cds/common';
4
5 namespace deskbookings;
6
7 entity DeskTypes : CodeList {
8     key code : String(5);
9 }
10
11 entity Offices : CodeList {
12     key code : String(3);
13 }
14
15 entity Bookings : cuid, managed {
16     bookingDate : Date;
17     deskType : association to DeskTypes;
18     office : association to Offices;

```

Problems x

No problems have been detected in the workspace so far.



desktopbooking - SAP Business App

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sajl

File

Edit

Selection

View

Go

Run

Terminal

Help

SAP Business Application Studio - desktopbooking

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booking.cds

.cdsrc.json

package-lock.json

NPM SCRIPTS

CAP DATA MODELS AND SERVICES

TIMELINE

admin.cds

demo > srv > admin.cds > ...

1 using deskbookings from '../db/schema';

2

3 //using from './annotations/admin';

4

5 service Admin {

6 entity DeskTypes as projection on deskbookings.DeskTypes

7 entity Offices as projection on deskbookings.Offices

8 }

9

Problems

~/projects/demo

user: demo \$ npm install

Ln 1, Col 1

LF

UTF-8

Spaces: 4

CDS

2

desktop - SAP Business App

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sjsql

File Edit Selection View Go Run Terminal Help

SAP Business Application Studio - desktop

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NPM SCRIPTS

CAP DATA MODELS AND SERVICES

TIMELINE

admin.cds

demo > srv > admin.cds > ...

1 using deskbookings from '../db/schema';

2

3 //using from './annotations/admin';

4

5 service Admin {

6 entity DeskTypes as projection on deskbookings.DeskTypes

7 entity Offices as projection on deskbookings.Offices

8 }

9

Problems

~/projects/demo

user: demo \$ npm install

up to date in 852ms

50 packages are looking for funding

run `npm fund` for details

user: demo \$ cds watch

900-complete*

0 0

Connect

Ln 1, Col 1 LF UTF-8 Spaces: 4 CDS 2

desktop - SAP Business App

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sjsql

File Edit Selection View Go Run Terminal Help

SAP Business Application Studio - deskbooking

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NPM SCRIPTS

CAP DATA MODELS AND SERVICES

TIMELINE

admin.cds

demo > srv > admin.cds > ...

1 using deskbookings from '../db/schema';

2

3 //using from '../annotations/admin';

4

5 service Admin {

6 entity DeskTypes as projection on deskbookings.DeskTypes

7 entity Offices as projection on deskbookings.Offices

8 }

9

Problems

~/projects/demo

./srv/admin.cds

./srv/booking.cds

./node_modules/@sap/cds/common.cds

[cds] - connect using bindings from: { registry: '~/.cds-services.json' }

[cds] - connect to db > sqlite { database: ':memory:' }

/> successfully deployed to sqlite in-memory db

[cds] - serving Admin { at: '/admin' }

[cds] - serving Booking { at: '/booking' }

[cds] - server listening on { url: 'http://localhost:4004' }

[cds] - launched at 7/21/2022, 7:03:01 AM, in: 1.310s

[cds] - [terminate with ^C]

A service is listening to port 4004.

Open in a New Tab

900-complete* 0 0 Connect Ln 1, Col 1 LF UTF-8 Spaces: 4 CDS 3

Welcome to @sap/cds Server

Serving demo 1.0.0

These are the paths currently served ...

Web Applications:

— none —

Service Endpoints:

[/admin](#) / [\\$metadata](#)

- [DeskTypes](#) → Fiori preview
- [Offices](#) → Fiori preview

[/booking](#) / [\\$metadata](#)

- [Bookings](#) → Fiori preview
- [DeskTypes](#) → Fiori preview
- [Offices](#) → Fiori preview

This is an automatically generated page.
You can replace it with a custom `./app/index.html`.

Standard ▾

Search Q

Go Adapt Filters



Delete | ⚙️ XLS ▾

To start, set the relevant filters.

Standard

Search

Preview – List of Admin.DeskTypes

DU

Go

Adapt Filters

Delete

⚙️

XLS

⌵

View Settings

Reset

Columns

Sort

Group

Search

Q

Show Selected

Columns (0/3)

☐ code

☐ Description

☐ Name

OK

Cancel

EXPLORER

OPEN EDITORS

MASTERING22 (WORKSPACE)

- booking.cds
- booking.js
- test
 - CreateBooking.http
 - DeleteBooking.http
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- .env1
- package-lock.json
- package.json
- README.md
- sqlite.db
- demo
 - app
 - db
 - node_modules
 - srv
 - annotations
 - admin.cds
- NPM SCRIPTS
- CAP DATA MODELS AND SERVICES
- TIMELINE

```
demo > srv > annotations > admin.cds
1 using Admin as admin from '../admin';
2
3 annotate admin.DeskTypes with @(
4   UI.LineItem : [
5     {
6       $Type : 'UI.DataField',
7       Value : code
8     },
9     {
10      $Type : 'UI.DataField',
11      Value : name
12    }
13  ]
14 );
15
16 annotate admin.DeskTypes with {
17   code @Common.Label: 'Desk Type';
18 }
```

Problems ~/projects/demo x

[cds] - [terminate with ^C]

[cds] - GET /\$fiori-preview/Admin/DeskTypes

[cds] - GET /appconfig/fioriSandboxConfig.json

[cds] - GET /\$fiori-preview/Admin/DeskTypes/app/Component-preload.js

[cds] - GET /\$fiori-preview/Admin/DeskTypes/app/Component-preload.js

[cds] - GET /\$fiori-preview/Admin/DeskTypes/app/Component.js

[cds] - GET /admin/\$metadata?sap-language=6N

[cds] - HEAD /admin/

[cds] - GET /sap/bc/lrep/flex/data/preview.Component?sap-language=en-GB

[cds] - GET /sap/bc/lrep/flex/settings

[cds] - POST /admin/\$batch

[cds] - > READ DeskTypes { '\$count': 'true', '\$select': 'code', '\$skip': '0', '\$top': '30' }

[cds] - GET /sap/opu/odata/sap/ESH_SEARCH_SRV/ServerInfos?\$expand=Services/Capabilities

[cds] - GET /sap/es/ina/GetServerInfo?_=1658387142587

deskbooking - SAP Business App x demo 1.0.0 Preview - List of Admin.DeskType x +

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sjsql

File Edit Selection View Go Run Terminal Help

SAP Business Application Studio - deskbooking

EXPLORER

OPEN EDITORS

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booking.cds

admin.cds

booking.cds

NPM SCRIPTS

CAP DATA MODELS AND SERVICES

TIMELINE

deskbookings.DeskTypes.csv x

demo > db > data > deskbookings.DeskTypes.csv

1 code;name

2 FIX;Fixed

3 S2S;Sit-to-stand

Problems

~/projects/demo x

[cds] - GET /\$fiori-preview/Admin/DeskTypes/app/Component-preload.js

[cds] - GET /\$fiori-preview/Admin/DeskTypes/app/Component.js

[cds] - GET /admin/\$metadata?sap-language=6N

[cds] - HEAD /admin/

[cds] - GET /sap/bc/lrep/flex/data/preview.Component?sap-language=en-GB

[cds] - GET /sap/bc/lrep/flex/settings

[cds] - POST /admin/\$batch

[cds] - > READ DeskTypes {

'\$count': 'true',

'\$select': 'code,name',

'\$skip': '0',

'\$top': '30'

}

[cds] - GET /sap/opu/odata/sap/ESH_SEARCH_SRV/ServerInfos?\$expand=Services/Cap

[cds] - GET /sap/es/ina/GetServerInfo?_=1658387269652

A service is listening to port 4004.

Open in a New Tab

900-complete* 0 0 Connect Ln 1, Col 1 No Environment LF UTF-8 Spaces: 4 Plain Text 3

Standard ▾

Search Q

Go Adapt Filters



Delete ⚙️ XLS ▾

<div>✕</div> Desk Type	Name	
<input type="checkbox"/> FIX	Fixed	>
<input type="checkbox"/> S2S	Sit-to-stand	>

desktoping - SAP Business App x demo 1.0.0 Preview - List of Admin.DeskType x +

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sjql

File Edit Selection View Go Run Terminal Help

SAP Business Application Studio - desktoping

EXPLORER

OPEN EDITORS

MASTERING22 (WORKSPACE)

h

CreateBooking.httpDeleteBooking.http.cdsrc.json.env1package-lock.jsonpackage.jsonREADME.mdsqlite.dbdemoappdbdatadeskbookings.DeskTypes.csvdeskbookings.Offices.csvschema.cdssrvnode_modulesannotatonsadmin.cdssrvbooking.cdssrvadmin.cdssrvbooking.cdssrvbooking.js.cdsrc.jsonpackage-lock.jsonNPM SCRIPTSCAP DATA MODELS AND SERVICESTIMELINE

booking.js x

desktoping > srv > booking.js > ...

```
1 const cds = require('@sap/cds')
2
3 module.exports = cds.service.impl(async (srv) =>{
4
5   srv.before ('CREATE', 'Bookings', async req => {
6     const { bookingDate } = req.data
7
8     const today = () => {
9       const now = new Date()
10      now.setHours(0)
11      now.setMinutes(0)
12      now.setSeconds(0)
13      now.setMilliseconds(0)
14      return now
15    }
16
17    if (today().getTime() > Date.parse(bookingDate))
```

Problems ~/projects/demo x

```
[cds] - GET /$fiori-preview/Admin/DeskTypes/app/Component-preload.js
[cds] - GET /$fiori-preview/Admin/DeskTypes/app/Component.js
[cds] - GET /admin/$metadata?sap-language=6N
[cds] - HEAD /admin/
[cds] - GET /sap/bc/lrep/flex/data/preview.Component?sap-language=en-GB
[cds] - GET /sap/bc/lrep/flex/settings
[cds] - POST /admin/$batch
[cds] - > READ DeskTypes {
  '$count': 'true',
  '$select': 'code,name',
  '$skip': '0',
  '$top': '30'
}
[cds] - GET /sap/opu/odata/sap/ESH_SEARCH_SRV/ServerInfos?$expand=Services/Capac
[cds] - GET /sap/es/ina/GetServerInfo?_=1658387358337
```

A service is listening to port 4004.

Open in a New Tab

900-complete* 0 0 Connect

You, 7 days ago Ln 1, Col 1 LF UTF-8 Spaces: 4 JavaScript 3

deskbooking - SAP Business App x demo 1.0.0 Preview - List of Admin.DeskType x +

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sjsl

SAP Business Application Studio - deskbooking

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NPM SCRIPTS

CAP DATA MODELS AND SERVICES

TIMELINE

CreateBooking.http x

demo > test > CreateBooking.http > ...

Send Request

1 POST http://localhost:4004/booking/Bookings

2 Content-Type: application/json

3

4 {"deskType_code":"S2S", "office_code":"MEL","bookingDate":"2022-07-14","email":"mike@madeup.com"}

Problems ~/projects/demo x

[cds] - GET /\$fiori-preview/Admin/DeskTypes/app/Component-preload.js

[cds] - GET /\$fiori-preview/Admin/DeskTypes/app/Component.js

[cds] - GET /admin/\$metadata?sap-language=6N

[cds] - HEAD /admin/

[cds] - GET /sap/bc/lrep/flex/data/preview.Component?sap-language=en-GB

[cds] - GET /sap/bc/lrep/flex/settings

[cds] - POST /admin/\$batch

[cds] - > READ DeskTypes {

'\$count': 'true',

'\$select': 'code,name',

'\$skip': '0',

'\$top': '30'

}

[cds] - GET /sap/opu/odata/sap/ESH_SEARCH_SRV/ServerInfos?\$expand=Services/Capac

[cds] - GET /sap/es/ina/GetServerInfo?_=1658387358337

A service is listening to port 4004.

Open in a New Tab

900-complete* 0 0 Connect Ln 1, Col 1 No Environment LF UTF-8 Spaces: 4 HTTP 3

deskbooking - SAP Business App x demo 1.0.0 Preview - List of Admin.DeskType x +

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sjql

SAP Business Application Studio - deskbooking

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NPM SCRIPTS

CAP DATA MODELS AND SERVICES

TIMELINE

CreateBooking.http x

demo > test > CreateBooking.http > ...

Send Request

1 POST http://localhost:4004/booking/Bookings

2 Content-Type: application/json

3

4 {"deskType_code":"S2S", "office_code":"MEL","bookingDat

Response(23ms) x

1 HTTP/1.1 400 Bad Request

2 X-Powered-By: Express

3 x-correlation-id: 8978a845-6e0a-4aef-8482-02d62151eb98

4 OData-Version: 4.0

5 content-type: application/json;odata.metadata=minimal

6 Date: Thu, 21 Jul 2022 07:10:58 GMT

7 Connection: close

8 Content-Length: 100

9

10 {

11 "error": {

12 "code": "400",

13 "message": "Please enter current or future date",

14 "@Common.numericSeverity": 4

15 }

16 }

Problems ~/projects/demo x

'\$select': 'code,name',

'\$skip': '0',

'\$top': '30'

}

[cds] - GET /sap/opu/odata/sap/ESH_SEARCH_SRV/ServerInfos?\$expand=Services/Capabilities

[cds] - GET /sap/es/ina/GetServerInfo?_=1658387358337

[cds] - POST /booking/Bookings

[cds] - {

code: 400,

message: 'Please enter current or future date',

numericSeverity: 4,

id: '1532829',

level: 'ERROR',

timestamp: 1658387458403

}

A service is listening to port 4004.

Open in a New Tab

900-complete* 0 0 Connect 23ms 310 B Ln 1, Col 1 No Environment LF UTF-8 Spaces: 4 HTTP 3

deskbooking - SAP Business App x demo 1.0.0 Preview - List of Admin.DeskType x +

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sajl

SAP Business Application Studio - deskbooking

EXPLORER

OPEN EDITORS

MASTERING22 (WORKSPACE)

.env1

package-lock.json

package.json

README.md

sqlite.db

demo

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deskbookings.DeskTypes.csv

deskbookings.Offices.csv

schema.cds

node_modules

srv

annotations

admin.cds

booking.cds

admin.cds

booking.cds

booking.js

test

CreateBooking.http

DeleteBooking.http

.cdsrc.json

package-lock.json

NPM SCRIPTS

CAP DATA MODELS AND SERVICES

TIMELINE

CreateBooking.http x

demo > test > CreateBooking.http > POST /booking/Bookings

Send Request

1 POST http://localhost:4004/booking/Bookings

2 Content-Type: application/json

3

4 {"deskType_code":"S2S", "office_code":"MEL", "bookingDate":"2022-07-22", "email":"mike@madeup.com"}

Problems ~/projects/demo x

'\$select': 'code,name',

'\$skip': '0',

'\$top': '30'

}

[cds] - GET /sap/opu/odata/sap/ESH_SEARCH_SRV/ServerInfos?\$expand=Services/Capabilities

[cds] - GET /sap/es/ina/GetServerInfo?_=1658387358337

[cds] - POST /booking/Bookings

[cds] - {

code: 400,

message: 'Please enter current or future date',

numericSeverity: 4,

id: '1532829',

level: 'ERROR',

timestamp: 1658387458403

}

A service is listening to port 4004.

Open in a New Tab

Ln 4, Col 70 No Environment LF UTF-8 Spaces: 4 HTTP 3

deskbooking - SAP Business App x demo 1.0.0 Preview - List of Admin.DeskType x +

11773d77trial.ap21cf.trial.applicationstudio.cloud.sap/index.html#ws-8sjql

SAP Business Application Studio - deskbooking

EXPLORER

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CAP DATA MODELS AND SERVICES

TIMELINE

CreateBooking.http x

demo > test > CreateBooking.http > POST /booking/Bookings

Send Request

1 POST http://localhost:4004/booking/Bookings

2 Content-Type: application/json

3

4 {"deskType_code":"S2S", "office_code":"MEL", "bookingDate":

Response(33ms) x

1 HTTP/1.1 201 Created

2 X-Powered-By: Express

3 x-correlation-id: aa2f1d21-76da-442b-a8de-42d0958c7c66

4 OData-Version: 4.0

5 content-type: application/json;odata.metadata=minimal

6 Location: Bookings(6b66d8ab-58d5-4cbb-9062-01db987d41ce)

7 Date: Thu, 21 Jul 2022 07:12:07 GMT

8 Connection: close

9 Content-Length: 314

10

11 {

12 "@odata.context": "\$metadata#Bookings/\$entity",

13 "deskType_code": "S2S",

14 "office_code": "MEL",

15 "bookingDate": "2022-07-22",

16 "email": "mike@madeup.com",

17 "ID": "6b66d8ab-58d5-4cbb-9062-01db987d41ce",

Problems ~/projects/demo x

'\$skip': '0',

'\$top': '30'

}

[cds] - GET /sap/opu/odata/sap/ESH_SEARCH_SRV/ServerInfos?\$expand=Services/Capabilities

[cds] - GET /sap/es/ina/GetServerInfo?_=1658387358337

[cds] - POST /booking/Bookings

[cds] - {

code: 400,

message: 'Please enter current or future date',

numericSeverity: 4,

id: '1532829',

level: 'ERROR',

timestamp: 1658387458403

}

[cds] - POST /booking/Bookings

A service is listening to port 4004.

Open in a New Tab

900-complete* 0 0 Connect 33ms 579 B Ln 4, Col 98 No Environment LF UTF-8 Spaces: 4 HTTP 3

Standard

Search Q

Go Adapt Filters

^ ☆

Delete ⚙️ XLS

	Date	Desk Type	Office	Email Address	
<input type="checkbox"/>	22 Jul 2022	Sit-to-stand (S2S)	Melbourne (MEL)	mike@madeup.com	>