* Create a data base table: for Travel data

@EndUserText.label : 'Database table for travel data XXX'

@AbapCatalog.enhancementCategory : #NOT\_EXTENSIBLE

@AbapCatalog.tableCategory : #TRANSPARENT

@AbapCatalog.deliveryClass : #A

@AbapCatalog.dataMaintenance : #RESTRICTED

define table ztravel\_xxx {

key client : abap.clnt not null;

key mykey : sysuuid\_x16 not null;

travel\_id : /dmo/travel\_id;

agency\_id : /dmo/agency\_id;

customer\_id : /dmo/customer\_id;

begin\_date : /dmo/begin\_date;

end\_date : /dmo/end\_date;

@Semantics.amount.currencyCode : 'ztravel\_xxx.currency\_code'

booking\_fee : /dmo/booking\_fee;

@Semantics.amount.currencyCode : 'ztravel\_xxx.currency\_code'

total\_price : /dmo/total\_price;

currency\_code : /dmo/currency\_code;

description : /dmo/description;

overall\_status : /dmo/overall\_status;

created\_by : syuname;

created\_at : timestampl;

last\_changed\_by : syuname;

last\_changed\_at : timestampl;

}

* Create a new Abap Class:

CLASS zcl\_generate\_travel\_data\_xxx DEFINITION

PUBLIC

FINAL

CREATE PUBLIC .

PUBLIC SECTION.

INTERFACES if\_oo\_adt\_classrun.

PROTECTED SECTION.

PRIVATE SECTION.

ENDCLASS.

CLASS zcl\_generate\_travel\_data\_xxx IMPLEMENTATION.

METHOD if\_oo\_adt\_classrun~main.

DATA itab TYPE TABLE OF ztravel\_xxx.

\* fill internal travel table (itab)

itab = VALUE #(

( mykey = '02D5290E594C1EDA93815057FD946624' travel\_id = '00000022' agency\_id = '070001' customer\_id = '000077' begin\_date = '20190624' end\_date = '20190628' booking\_fee = '60.00' total\_price = '750.00' currency\_code = 'USD'

description = 'mv' overall\_status = 'A' created\_by = 'MUSTERMANN' created\_at = '20190612133945.5960060' last\_changed\_by = 'MUSTERFRAU' last\_changed\_at = '20190702105400.3647680' )

( mykey = '02D5290E594C1EDA93815C50CD7AE62A' travel\_id = '00000106' agency\_id = '070005' customer\_id = '000005' begin\_date = '20190613' end\_date = '20190716' booking\_fee = '17.00' total\_price = '650.00' currency\_code = 'AFN'

description = 'Enter your comments here' overall\_status = 'A' created\_by = 'MUSTERMANN' created\_at = '20190613111129.2391370' last\_changed\_by = 'MUSTERMANN' last\_changed\_at = '20190711140753.1472620' )

( mykey = '02D5290E594C1EDA93858EED2DA2EB0B' travel\_id = '00000103' agency\_id = '070010' customer\_id = '000011' begin\_date = '20190610' end\_date = '20190714' booking\_fee = '17.00' total\_price = '800.00' currency\_code = 'AFN'

description = 'Enter your comments here' overall\_status = 'X' created\_by = 'MUSTERFRAU' created\_at = '20190613105654.4296640' last\_changed\_by = 'MUSTERFRAU' last\_changed\_at = '20190613111041.2251330' )

).

\* delete existing entries in the database table

DELETE FROM ztravel\_xxx.

\* insert the new table entries

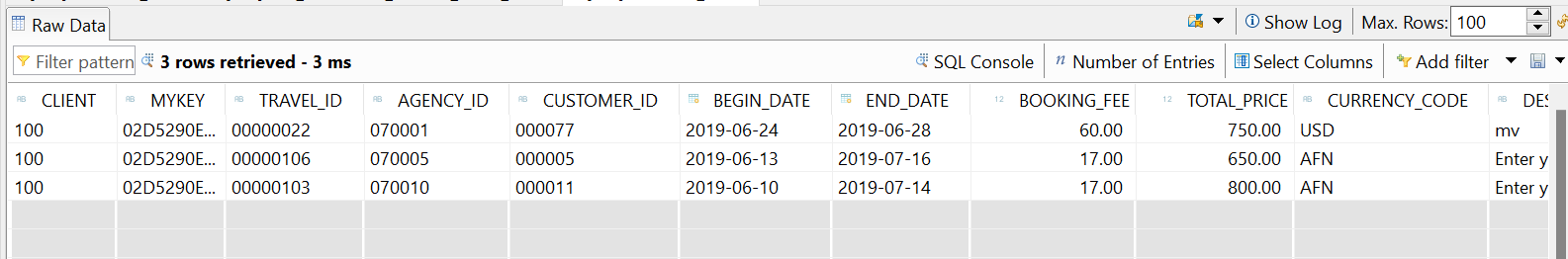
INSERT ztravel\_xxx FROM TABLE @itab.

\* output the result as a console message

out->write( |{ sy-dbcnt } travel entries inserted successfully!| ).

ENDMETHOD.

ENDCLASS.



* Create a new Data definition for creating a data model for Travel App:

@EndUserText.label: 'Travel data XXX'

@AccessControl.authorizationCheck: #NOT\_REQUIRED

**define** **root** **view** **entity** ZI\_TRAVEL\_M\_746

**as** **select** **from** ztravel\_746 **as** Travel

/\* Associations \*/

**association** **[**0**..**1**]** **to** /DMO/I\_Agency **as** \_Agency **on** **$projection.**agency\_id **=** \_Agency**.**AgencyID

**association** **[**0**..**1**]** **to** /DMO/I\_Customer **as** \_Customer **on** **$projection.**customer\_id **=** \_Customer**.**CustomerID

**association** **[**0**..**1**]** **to** I\_Currency **as** \_Currency **on** **$projection.**currency\_code **=** \_Currency**.**Currency

**{**

**key** mykey**,**

travel\_id**,**

agency\_id**,**

customer\_id**,**

begin\_date**,**

end\_date**,**

@Semantics.amount.currencyCode: 'currency\_code'

booking\_fee**,**

@Semantics.amount.currencyCode: 'currency\_code'

total\_price**,**

currency\_code**,**

overall\_status**,**

description**,**

/\*-- Admin data --\*/

@Semantics.user.createdBy: true

created\_by**,**

@Semantics.systemDateTime.createdAt: true

created\_at**,**

@Semantics.user.lastChangedBy: true

last\_changed\_by**,**

@Semantics.systemDateTime.lastChangedAt: true

last\_changed\_at**,**

/\* Public associations \*/

\_Agency**,**

\_Customer**,**

\_Currency

**}**

* Create Projection View for travel data:

@EndUserText.label: 'Travel projection view - Processor'

@AccessControl.authorizationCheck: #NOT\_REQUIRED

@UI: {

headerInfo: { typeName: 'Travel', typeNamePlural: 'Travels', title: { type: #STANDARD, value: 'TravelID' } } }

@Search.searchable: true

**define** **root** **view** **entity** ZC\_TRAVEL\_M\_746

**provider** **contract** **transactional\_query**

**as** **projection** **on** ZI\_TRAVEL\_M\_746

**{**

@UI.facet: [ { id: 'Travel',

purpose: #STANDARD,

type: #IDENTIFICATION\_REFERENCE,

label: 'Travel',

position: 10 } ]

@UI.hidden: true

**key** mykey **as** TravelUUID**,**

@UI: {

lineItem: [ { position: 10, importance: #HIGH } ],

identification: [ { position: 10, label: 'Travel ID [1,...,99999999]' } ] }

@Search.defaultSearchElement: true

travel\_id **as** TravelID**,**

@UI: {

lineItem: [ { position: 20, importance: #HIGH } ],

identification: [ { position: 20 } ],

selectionField: [ { position: 20 } ] }

@Consumption.valueHelpDefinition: [{ entity : {name: '/DMO/I\_Agency', element: 'AgencyID' } }]

@ObjectModel.text.element: ['AgencyName'] ----meaning?

@Search.defaultSearchElement: true

agency\_id **as** AgencyID**,**

\_Agency**.**Name **as** AgencyName**,**

@UI: {

lineItem: [ { position: 30, importance: #HIGH } ],

identification: [ { position: 30 } ],

selectionField: [ { position: 30 } ] }

@Consumption.valueHelpDefinition: [{ entity : {name: '/DMO/I\_Customer', element: 'CustomerID' } }]

@ObjectModel.text.element: ['CustomerName']

@Search.defaultSearchElement: true

customer\_id **as** CustomerID**,**

@UI.hidden: true

\_Customer**.**LastName **as** CustomerName**,**

@UI: {

lineItem: [ { position: 40, importance: #MEDIUM } ],

identification: [ { position: 40 } ] }

begin\_date **as** BeginDate**,**

@UI: {

lineItem: [ { position: 41, importance: #MEDIUM } ],

identification: [ { position: 41 } ] }

end\_date **as** EndDate**,**

@UI: {

lineItem: [ { position: 50, importance: #MEDIUM } ],

identification: [ { position: 50, label: 'Total Price' } ] }

@Semantics.amount.currencyCode: 'CurrencyCode'

total\_price **as** TotalPrice**,**

@Consumption.valueHelpDefinition: [{entity: {name: 'I\_Currency', element: 'Currency' }}]

currency\_code **as** CurrencyCode**,**

@UI: {

lineItem: [ { position: 60, importance: #HIGH },

{ type: #FOR\_ACTION, dataAction: 'acceptTravel', label: 'Accept Travel' } ],

identification: [ { position: 60, label: 'Status [O(Open)|A(Accepted)|X(Canceled)]' } ] }

overall\_status **as** TravelStatus**,**

@UI.identification: [ { position: 70, label: 'Remarks' } ]

description **as** Description**,**

@UI.hidden: true

last\_changed\_at **as** LastChangedAt

**}**

* Create a Service Definition:

@EndUserText.label: 'Service Definition for ZC\_Travel\_M\_XXX'

**define** **service** ZUI\_C\_TRAVEL\_M\_746 **{**

**expose** ZC\_TRAVEL\_M\_746 **as** TravelProcessor**;**

**expose** /DMO/I\_Customer **as** Passenger**;**

**expose** /DMO/I\_Agency **as** TravelAgency**;**

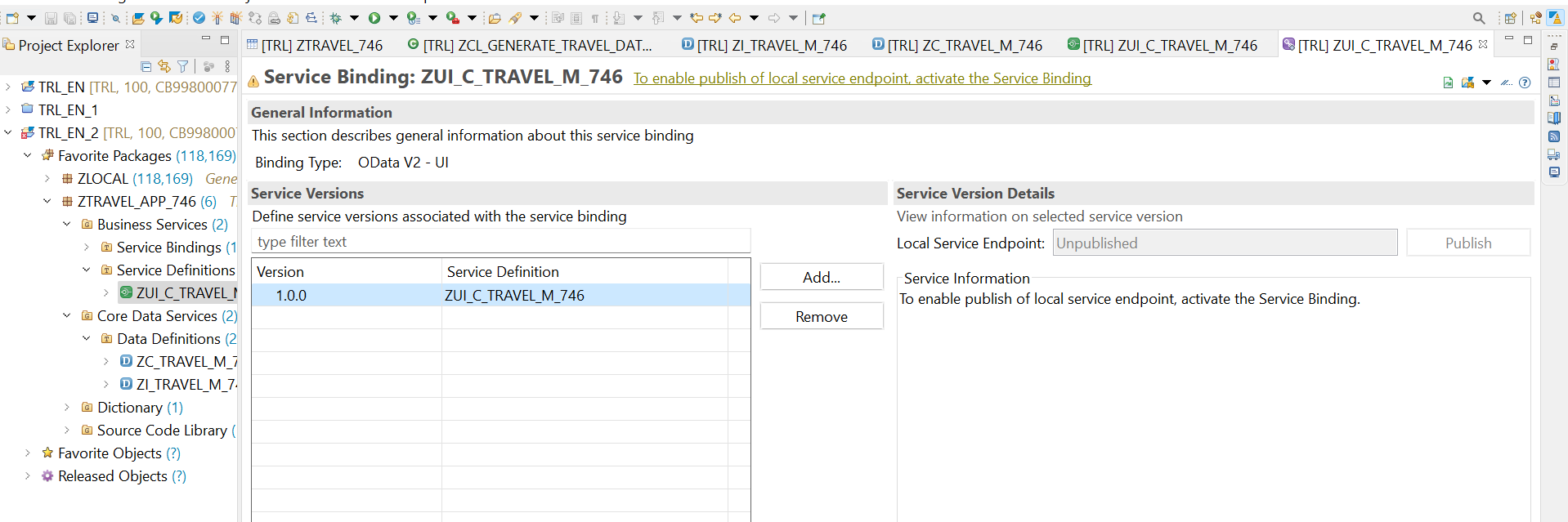
**expose** /DMO/I\_Airport **as** Airport**;**

**expose** I\_Currency **as** Currency**;**

**expose** I\_Country **as** Country**;**

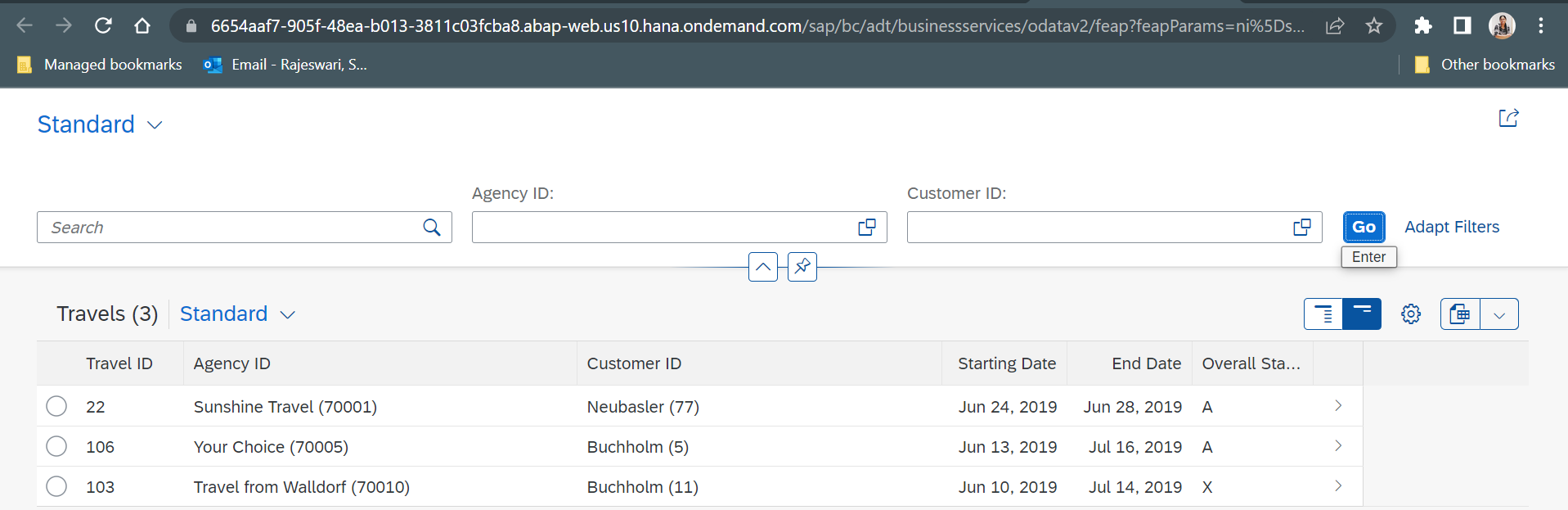
**}**

* Create New Service Binding:



**Activate** your service binding and then **publish** it.

**And then click on the association and preview**

****

* Create behaviour definition:

managed implementation in class zbp\_i\_travel\_m\_746 unique;

define behavior for ZI\_TRAVEL\_M\_746 alias Travel

persistent table ztravel\_746

etag master last\_changed\_at

lock master

{

// semantic key is calculated in a determination

field ( readonly ) travel\_id;

// administrative fields (read only)

field ( readonly ) last\_changed\_at, last\_changed\_by, created\_at, created\_by;

// mandatory fields that are required to create a travel

field ( mandatory ) agency\_id, overall\_status, booking\_fee, currency\_code;

// mandatory fields that are required to create a travel

field ( mandatory ) Begin\_Date, End\_Date, Customer\_ID;

// standard operations for travel entity

create;

update;

delete;

}

* Create Behaviour Projection:

**projection;**

//strict ( 1 ); //Uncomment this line in order to enable strict mode 2. The strict mode has two variants (strict(1), strict(2)) and is prerequisite to be future proof regarding syntax and to be able to release your BO.

**define** **behavior** **for** ZC\_TRAVEL\_M\_746\_1 **alias** TravelProcessor

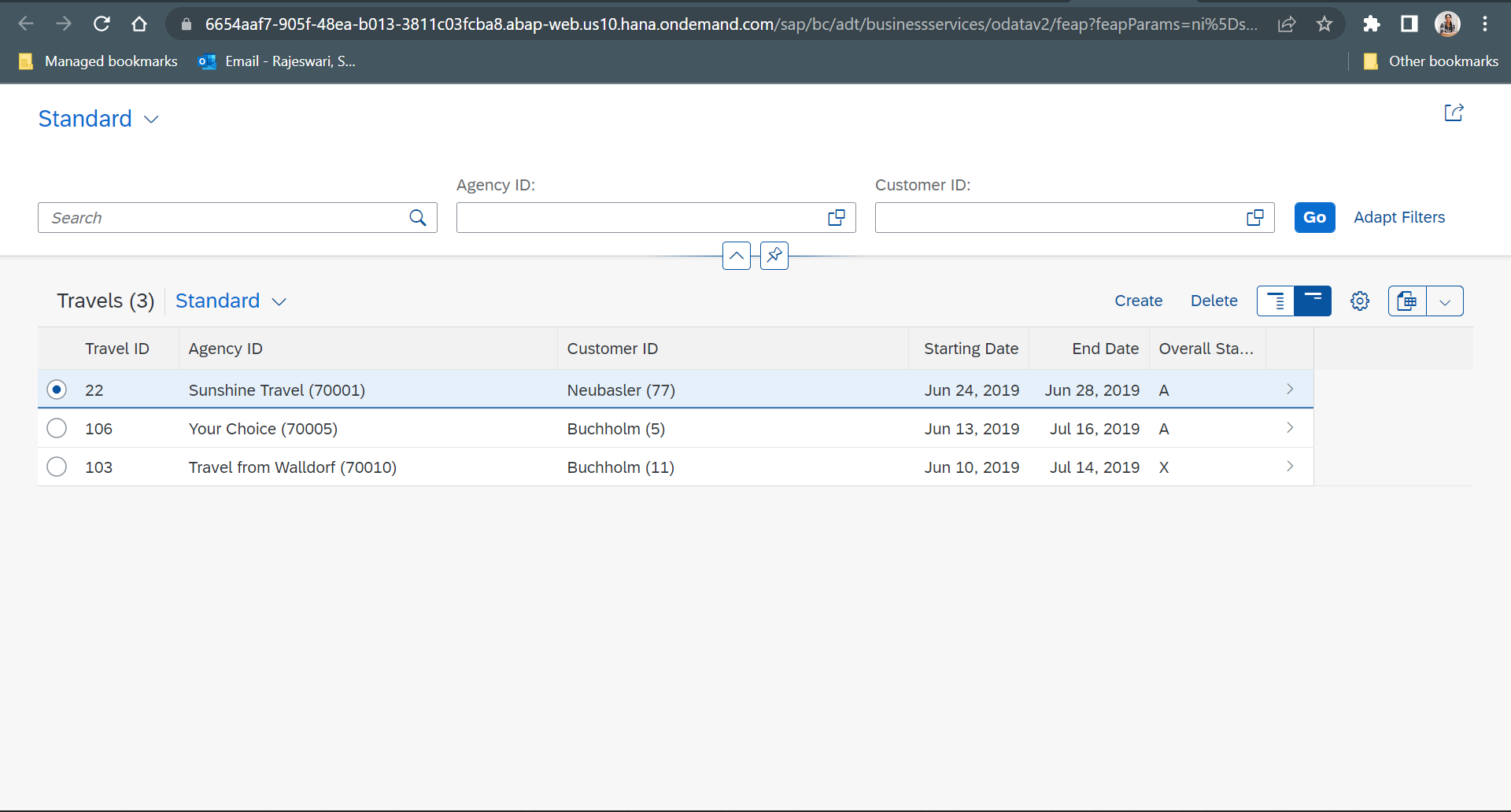
**{**

**use** **create;**

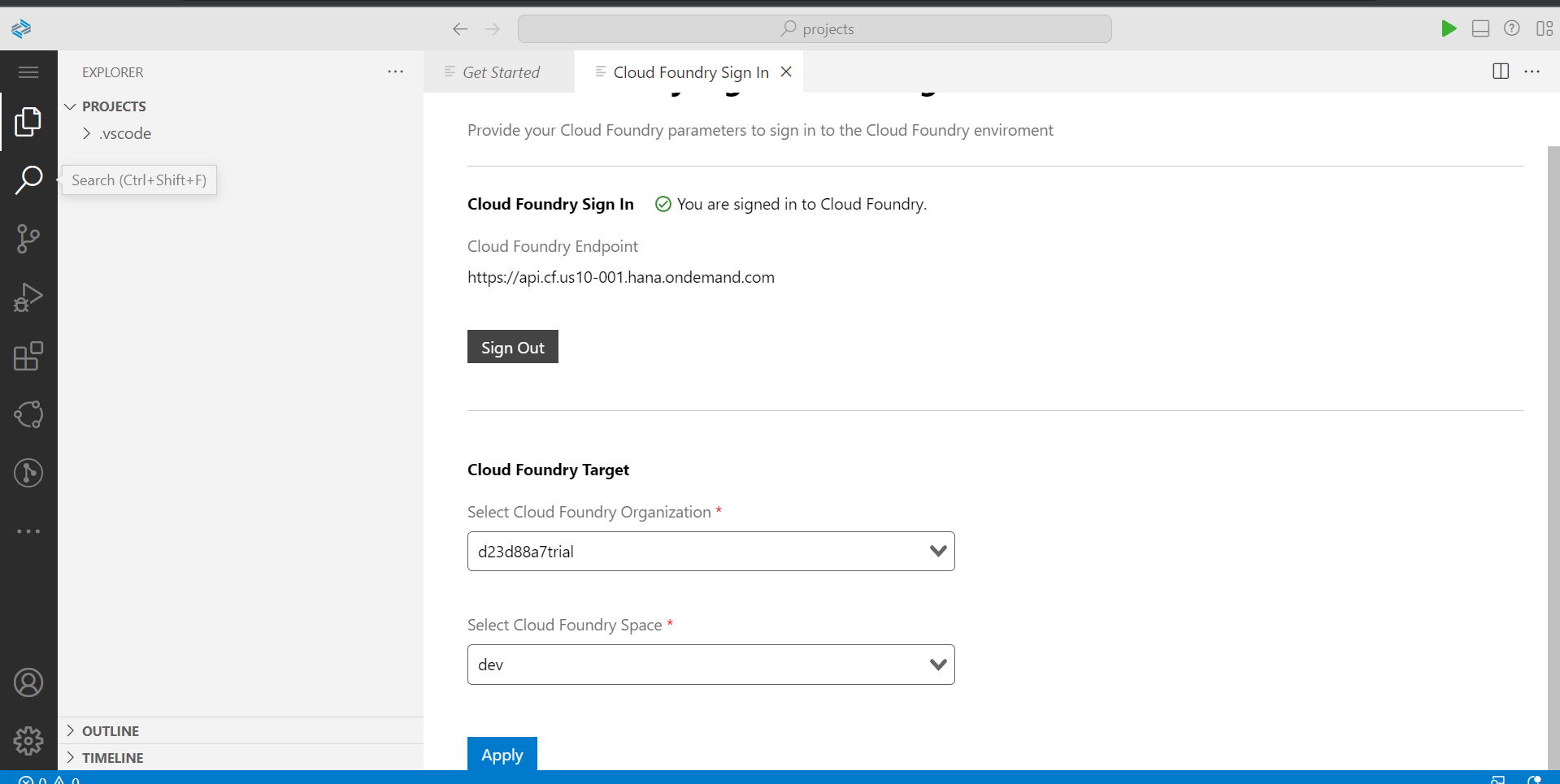
**use** **update;**

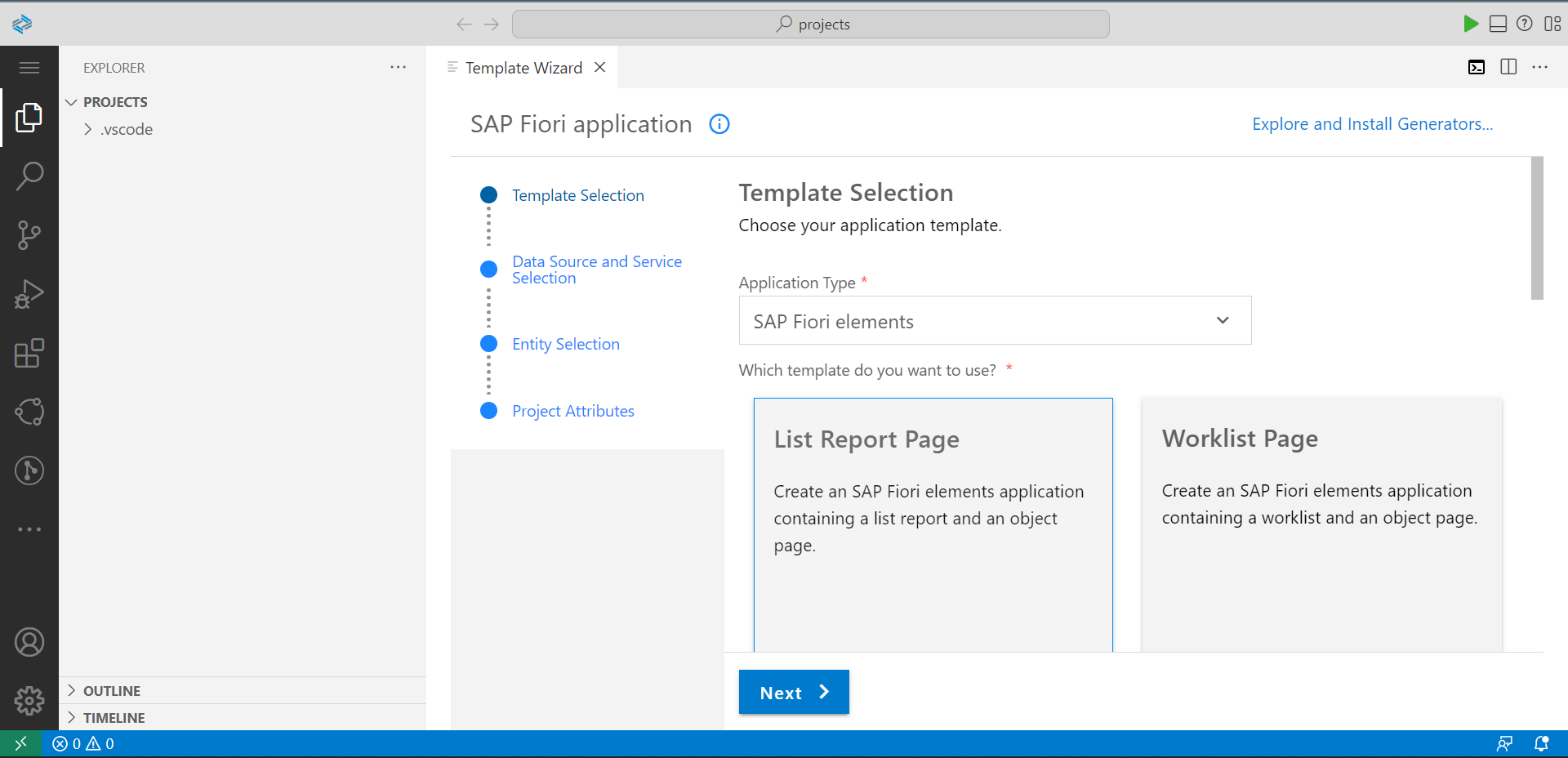
**use** **delete;**

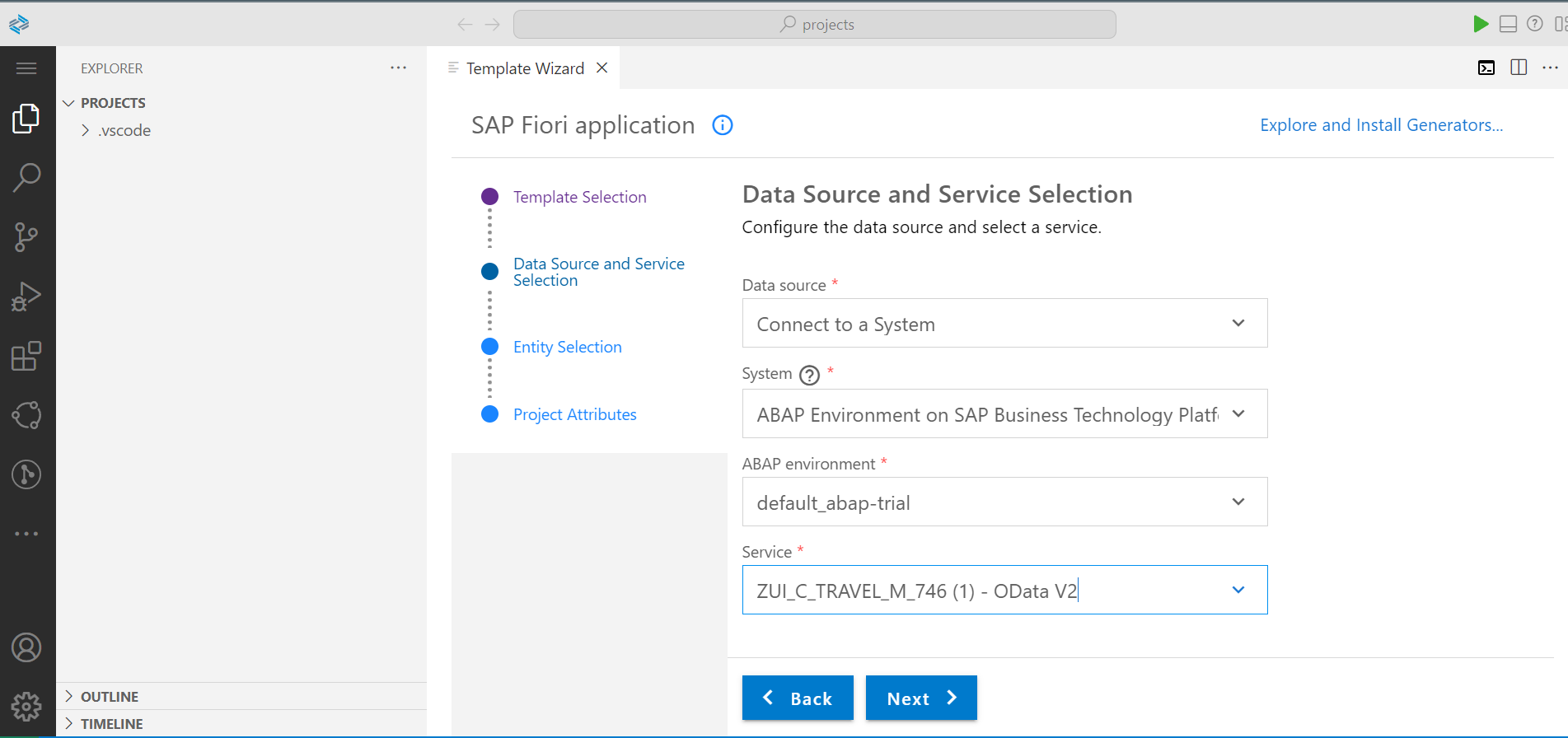
**}**

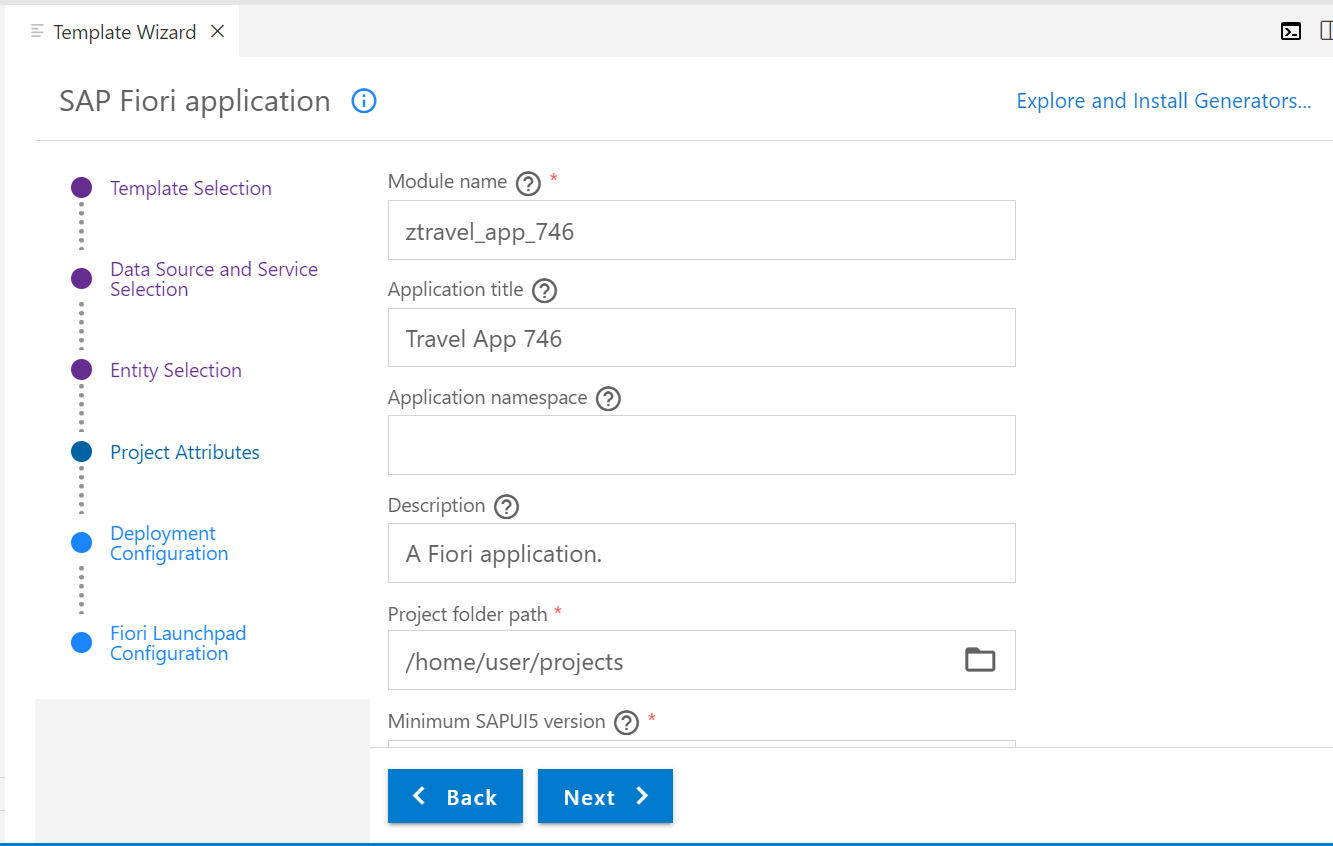


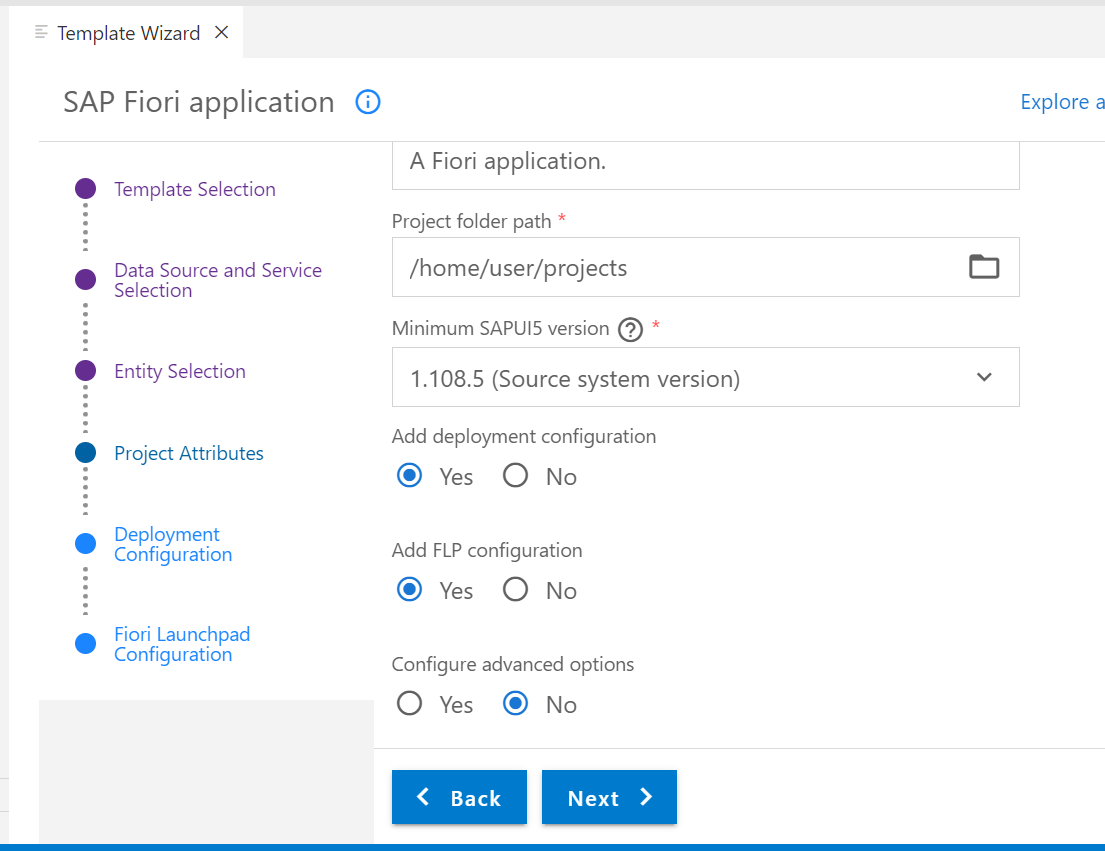
* Create a fiori app and deploy it into SAP BTP environment:
  + Create Dev space, Projects, CF:Login to Cloud foundry, Create fiori: open application generator:

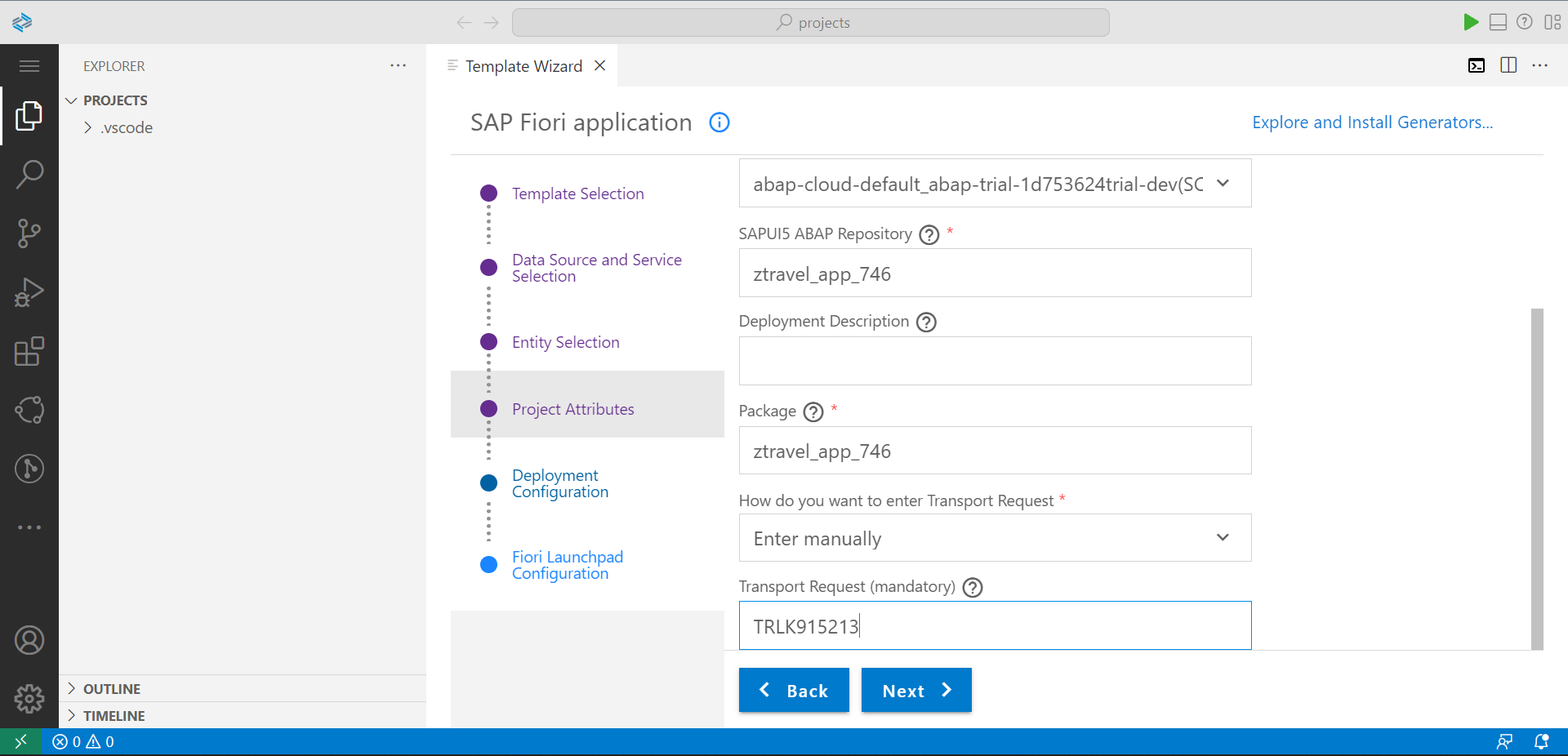
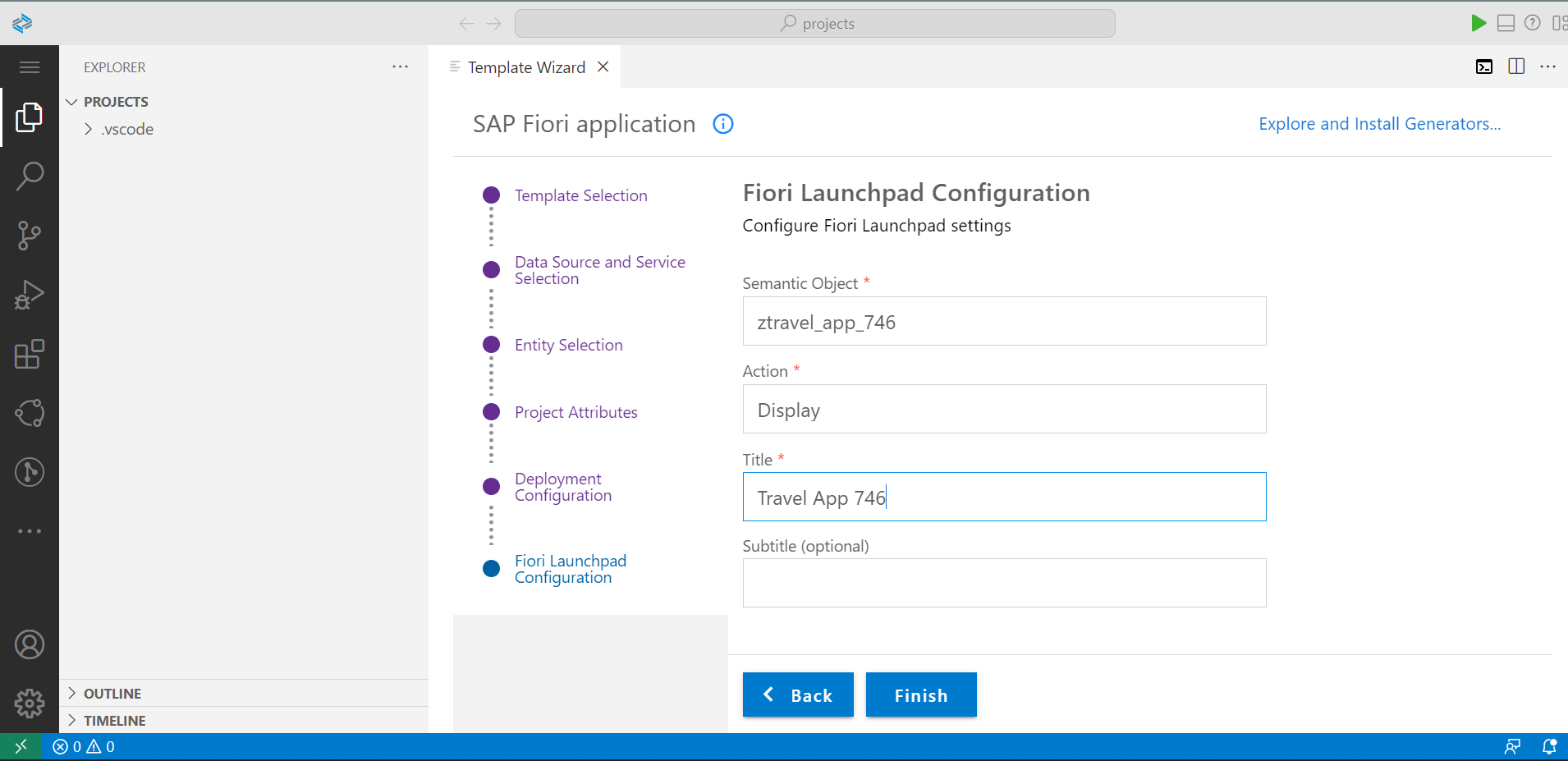
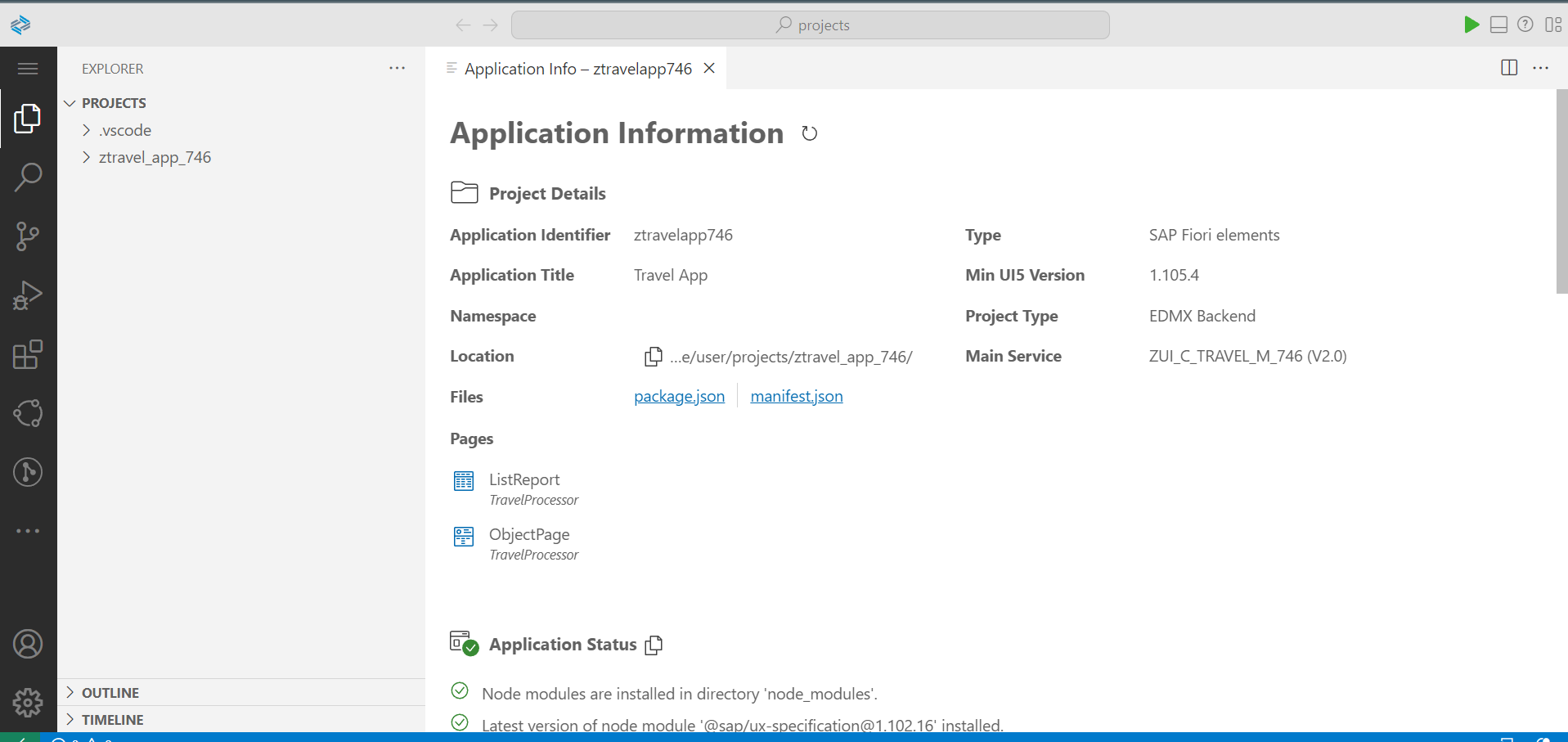
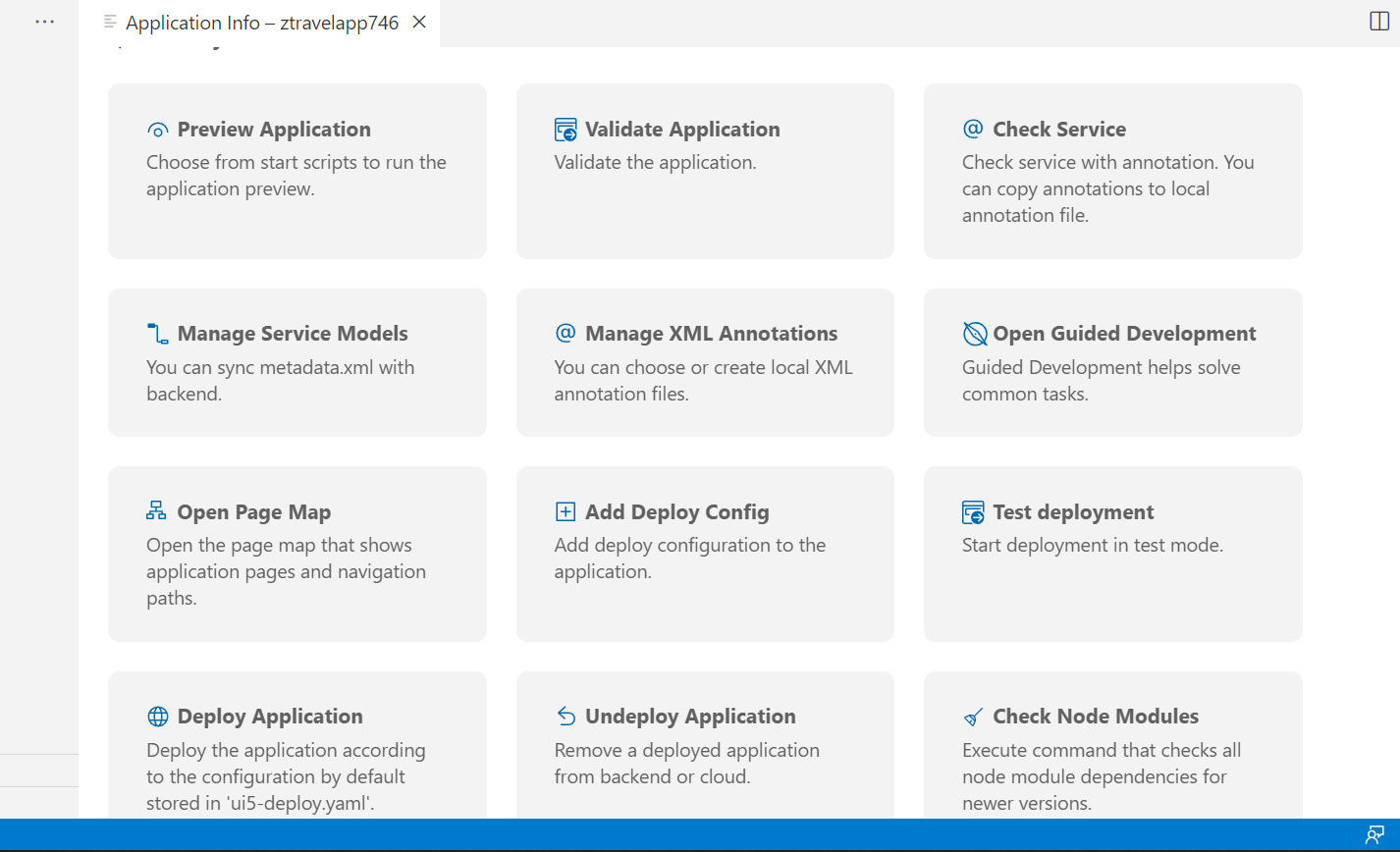
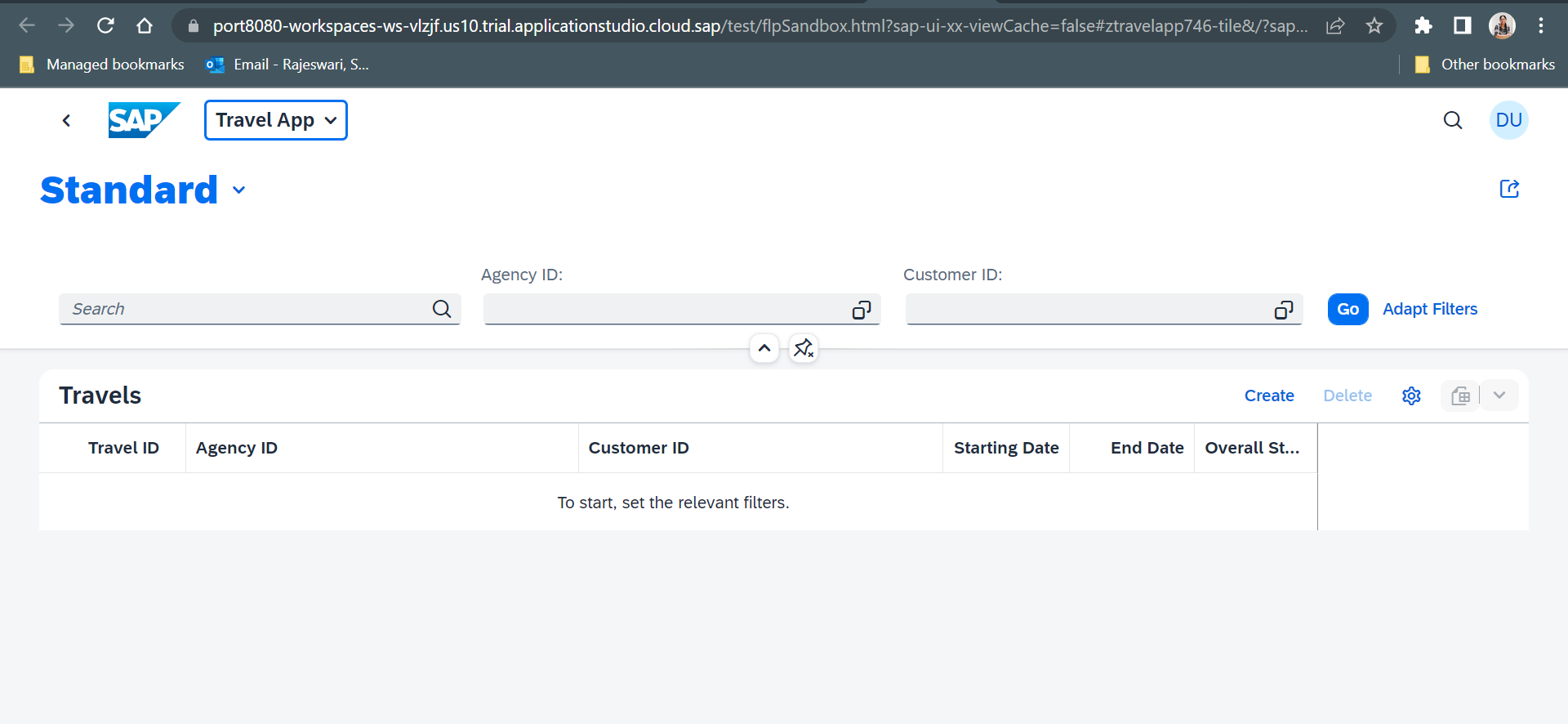
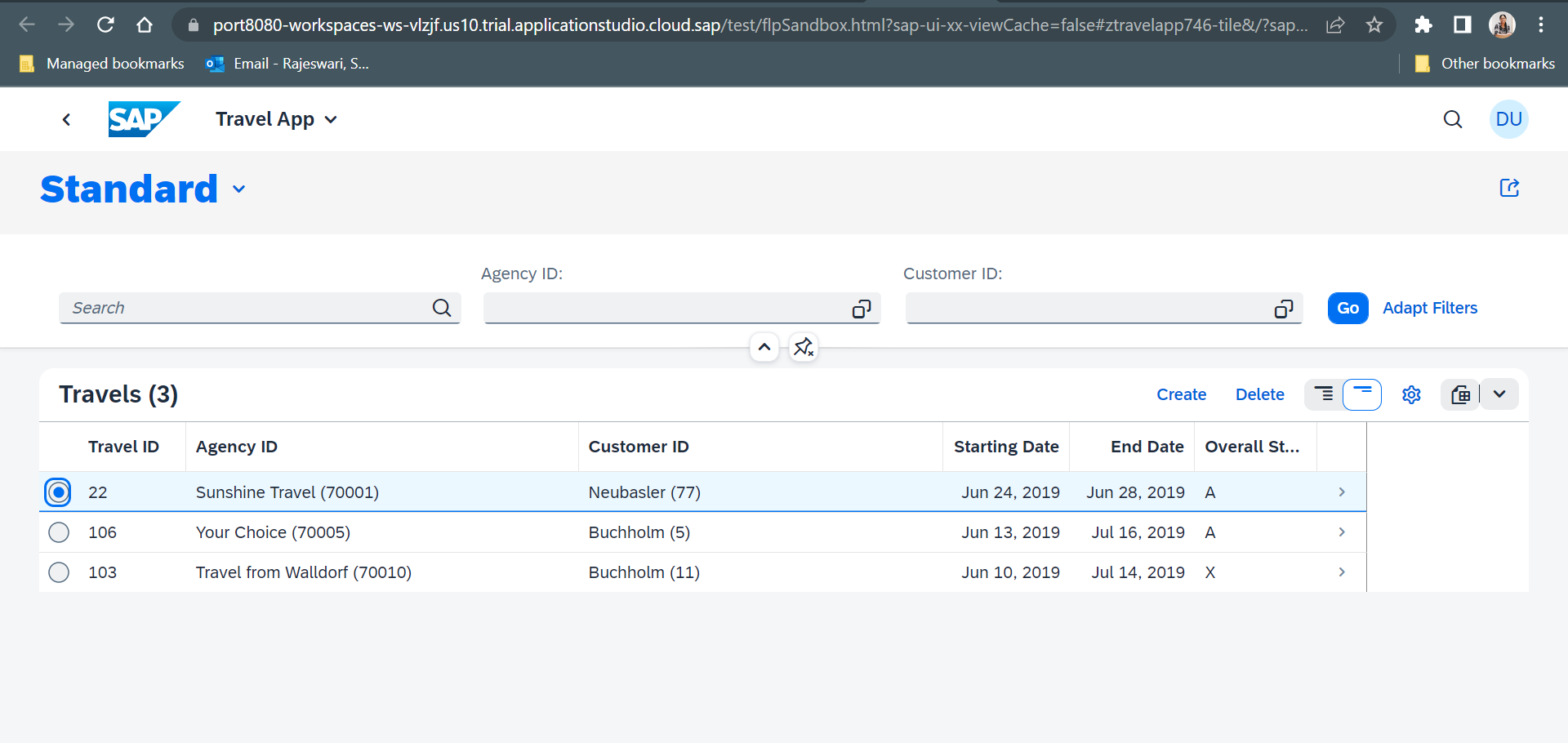


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