**Sample Application Details**

The application implementation consists of

* + asp.net MVC (razor),c#
  + jQuery, Bootstrap css and js
  + asp.net web api
  + LINQ
  + client side validation
  + server side validation
  + custom route table entries
  + Repository pattern
  + Dependency injection
  + Random Text creation
  + EF DB first approach
  + Viewmodel

1.**Dependency injection and repository pattern** are implemented for the controller – FileListController and used unity.

2.As there are no generic behaviors for the controllers in the sample project, I am not implementing generic repository

3.and as there are not many crud operations, Unit of work pattern also not implemented.

4.Since I couldn’t do much changes in jQuery for this project, I have included one simple app created earlier.

**TODO**

* Validation for the input file and some validation in other screens can be added.
* The URL is hard coded for asp.net web api and short URL. (needs to be changed)
* Instead of creating a user, I have implemented the new bookings section.
* Routing table can be rewritten in a generalized way.

**Application details**

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The main sections in the application are

1.Manage URL mappers

Create

View

2.Short URL routing to Long URL

3.Manage booking details

Search

Upload

Create new booking

Invoke web api

View PNL for the uploaded file

4.View the whole PNL

1.URL Mappers

Click on the create new button in URL mappers screen will redirect to create page

Enter the long URL and click on create. A random short url will be created.

2.URL Routing

Copy the short url and paste in the browser. If short url exists in the system

it will take you to the corresponding long url mentioned

3.FILE LIST

Navigate to file list in menu

Select a txt file which contains passenger booking list in the predefined format

click on submit-file will be saved and data will be stored in the system

* + In order to view the details of the file, click on view PNL
  + For invoking the client api and passing the file content click on Invoke api
  + for adding a new booking for the file, click on new bookings
    - enter all the fields like name, key, booking (all are string)
    - once saved the entry will be added in the file and the system

4.PNL List

* + search an entry for the name or the booking. The corresponding entries will be displayed.
  + to see the whole list from various files entered click on PNL list in the menu
  + to see the details of a file, click on view PNL in the Filelist