# PhotoAlbum

(my PicSidekick)

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# Description

- This days most of us take hundreds of pictures weekly. With this numbers it's almost impossible to keep track of our best moment in life.  Pictures need to be organized to be accessible.
- Our web app intend to solve this issues, offering a way to classify pictures adding information to them, such as date, location, event, author, people, etc.
- The classification will allow the user to retrieve the pictures using a search features and to create thematic albums.
- Ultimate goal would be adding auto-classification through facial recognition and a album suggestion feature.

# Features

- Upload and display pictures
- CRUD repository
- Multiple request buttons on the same page
- Query interface
- Sorting data
- Data validation

# Planning - User Stories

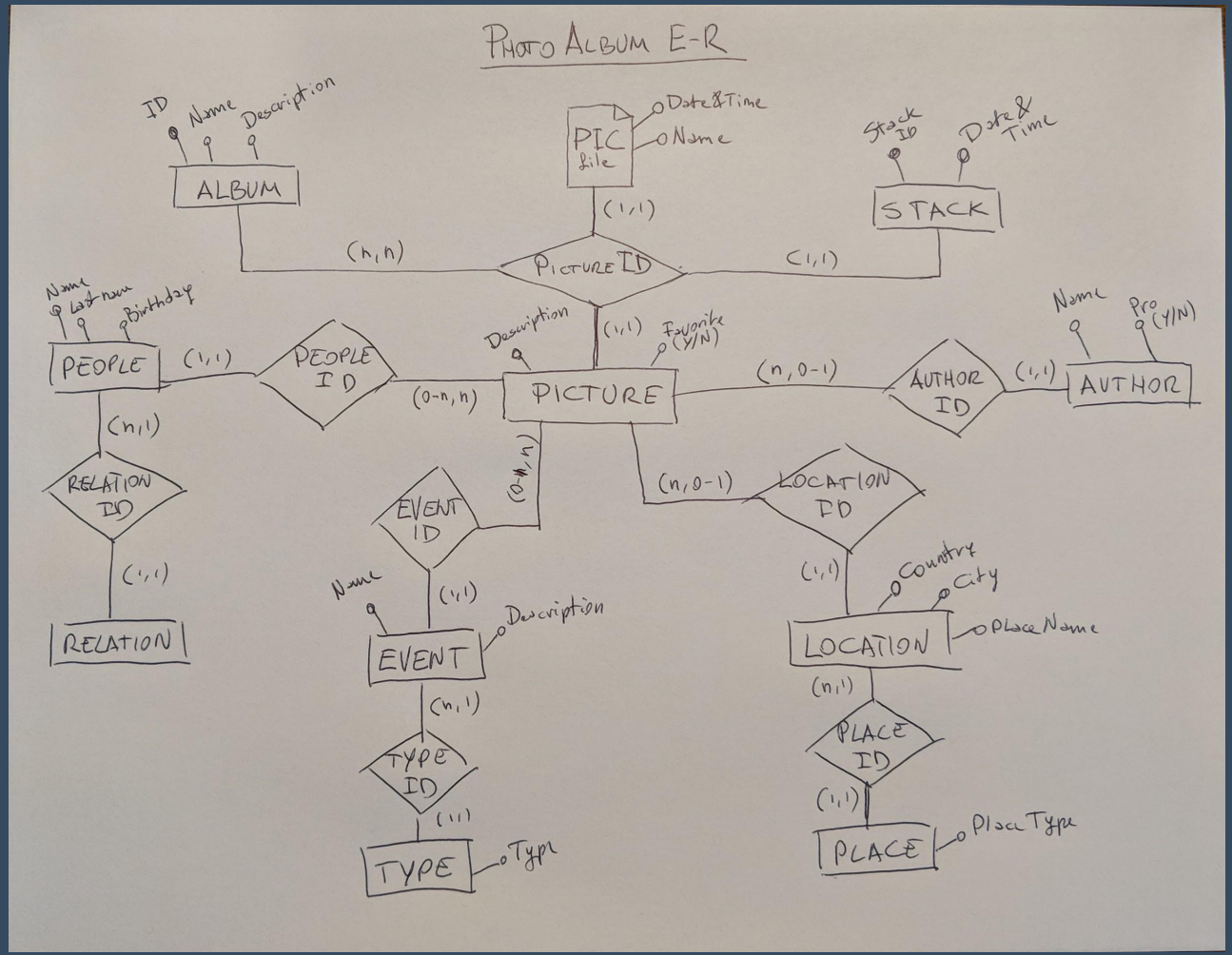
- User can upload Pictures and create Stacks.
- Users can create Locations, Events, Author and People elements.
- Users can access to Pictures Stack and add to each picture the above information.
- Users can select favorite pictures.
- Users can sort pictures.
- Users can perform query on the picture db by Location, Events, Author, People, etc.
- Users can create Albums and add pictures to it.

# Planning - Database

Database was designed with a Entity - Relation diagram.

- Each pictures upload create a Stack entity.
- The pictures in the main entity Picture have a one-to-many relation with Stack entity.
- Picture has a many-to-many relation with the entities Location, Event, Author, People and Album

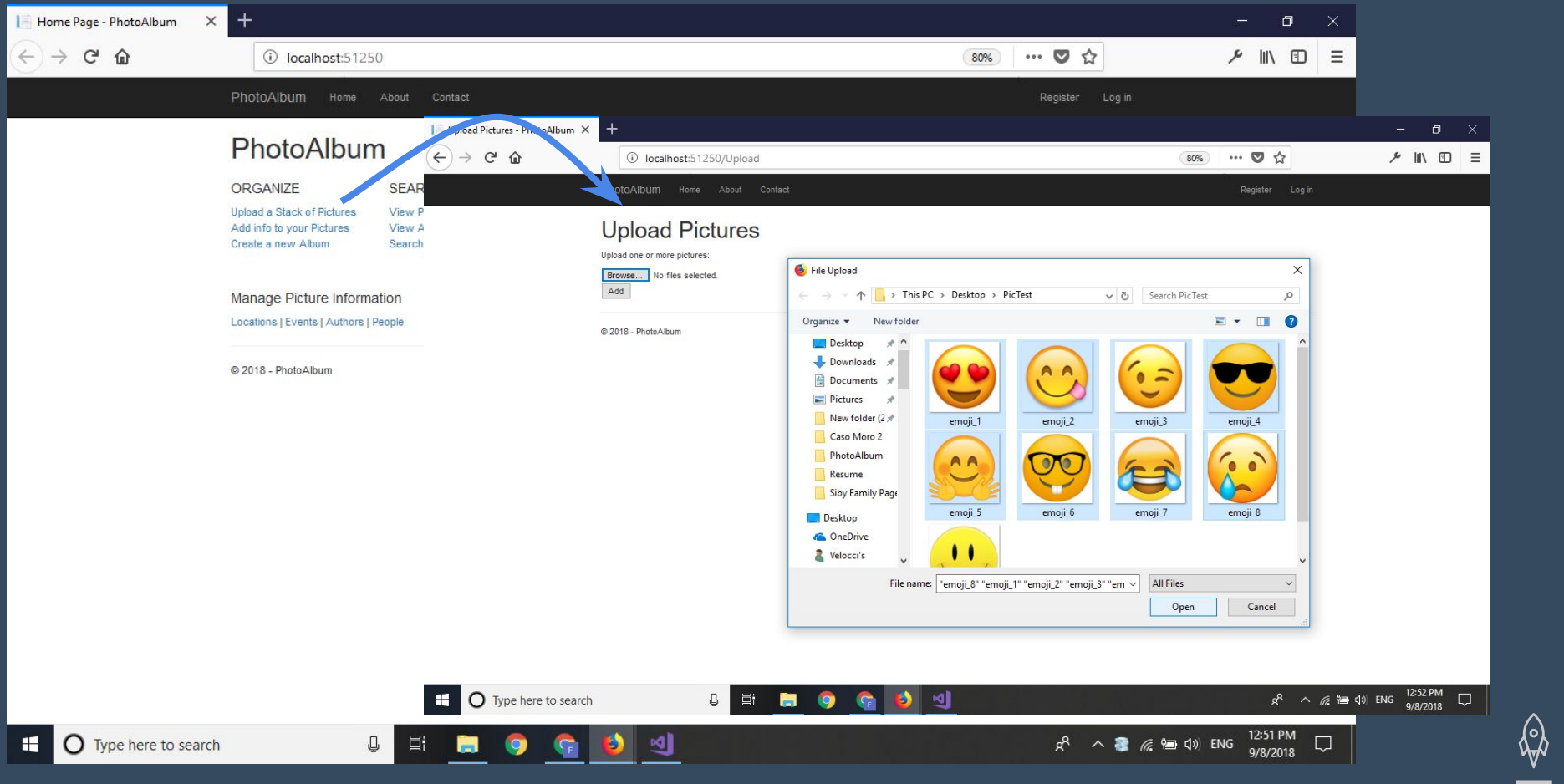
# Planning - Database



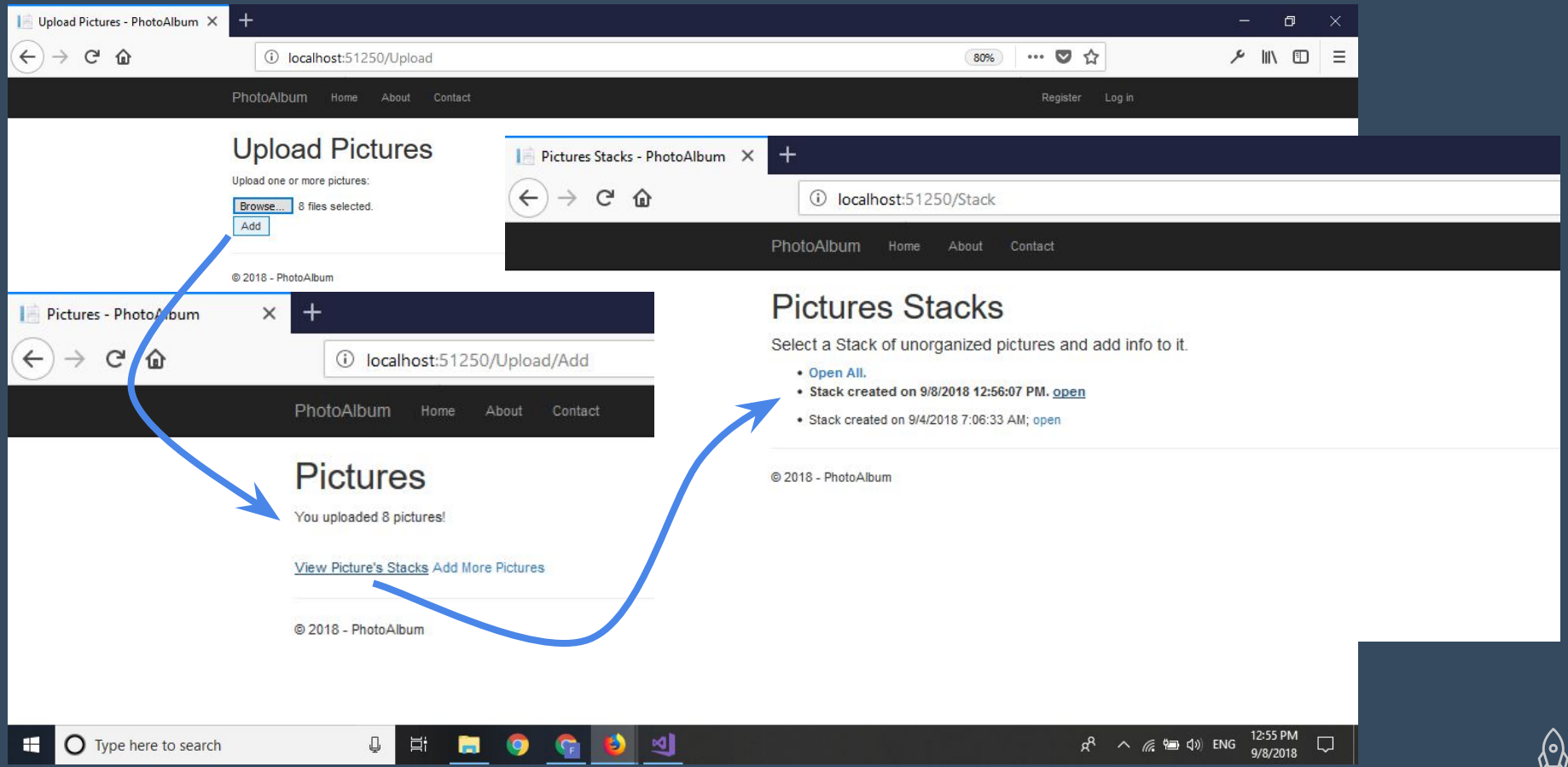
# Technology Stack

- Language: C#
- Asp.Net Core 2.0
- Database SQL
- Entity Framework

# Demo


Home Page - PhotoAlbum
localhost:51250
PhotoAlbum
Home
About
Contact
Register
Log in
PhotoAlbum
ORGANIZE
Upload a Stack of Pictures
Add info to your Pictures
Create a new Album
Manage Picture Information
Locations | Events | Authors | People
© 2018 - PhotoAlbum
Upload Pictures - PhotoAlbum
localhost:51250/Upload
Upload Pictures
Upload one or more pictures:
Browse...
No files selected.
Add
© 2018 - PhotoAlbum
File Upload
This PC › Desktop › PicTest
Search PicTest
Organize
New folder
Desktop
Downloads
Documents
Pictures
PhotoAlbum
Resume
OneDrive
emoji_1
emoji_2
emoji_3
emoji_4
emoji_5
emoji_6
emoji_7
emoji_8
File name: "emoji_8" "emoji_1" "emoji_2" "emoji_3" "em
All Files
Open
Cancel
Type here to search
ENG
12:51 PM
9/8/2018

# Demo


Upload Pictures - PhotoAlbum
localhost:51250/Upload
PhotoAlbum Home About Contact Register Log in
Upload Pictures
Upload one or more pictures:
Browse... 8 files selected.
Add
© 2018 - PhotoAlbum
Pictures Stacks - PhotoAlbum
localhost:51250/Stack
PhotoAlbum Home About Contact
Pictures Stacks
Select a Stack of unorganized pictures and add info to it.
Open All.
Stack created on 9/8/2018 12:56:07 PM. open
Stack created on 9/4/2018 7:06:33 AM; open
© 2018 - PhotoAlbum
Pictures - PhotoAlbum
localhost:51250/Upload/Add
PhotoAlbum Home About Contact
Pictures
You uploaded 8 pictures!
View Picture's Stacks Add More Pictures
© 2018 - PhotoAlbum
Type here to search
ENG
12:55 PM
9/8/2018

# Demo

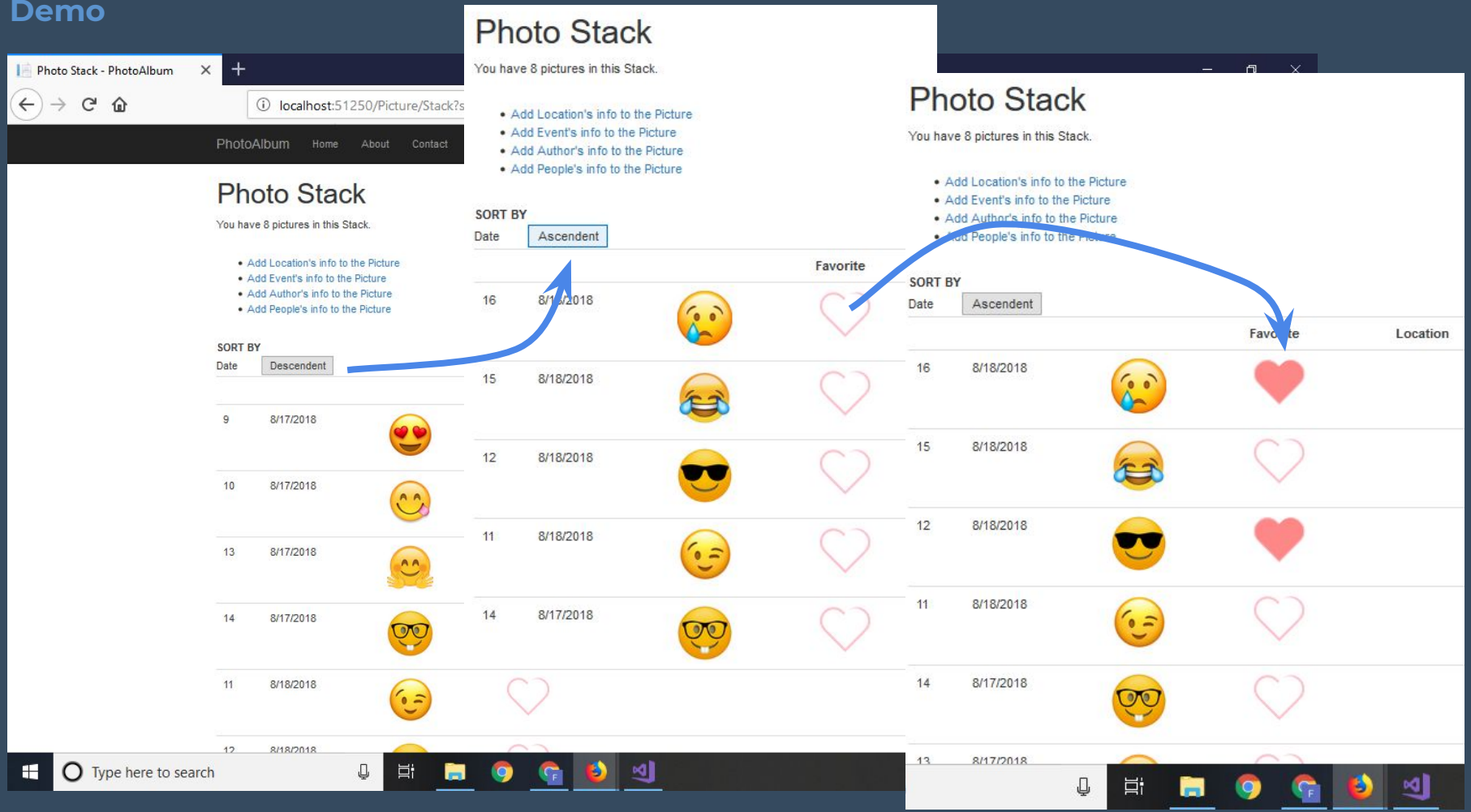
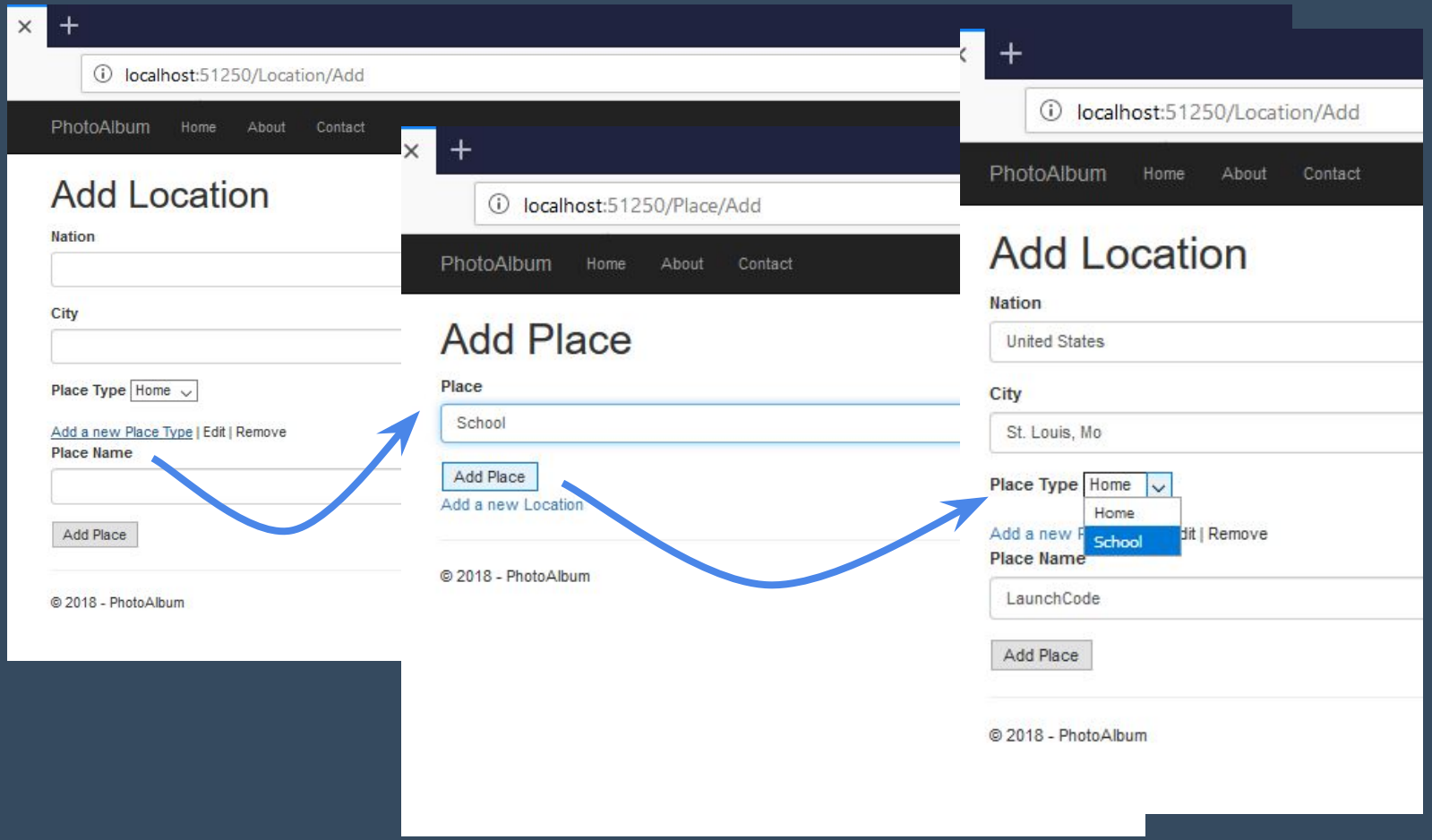
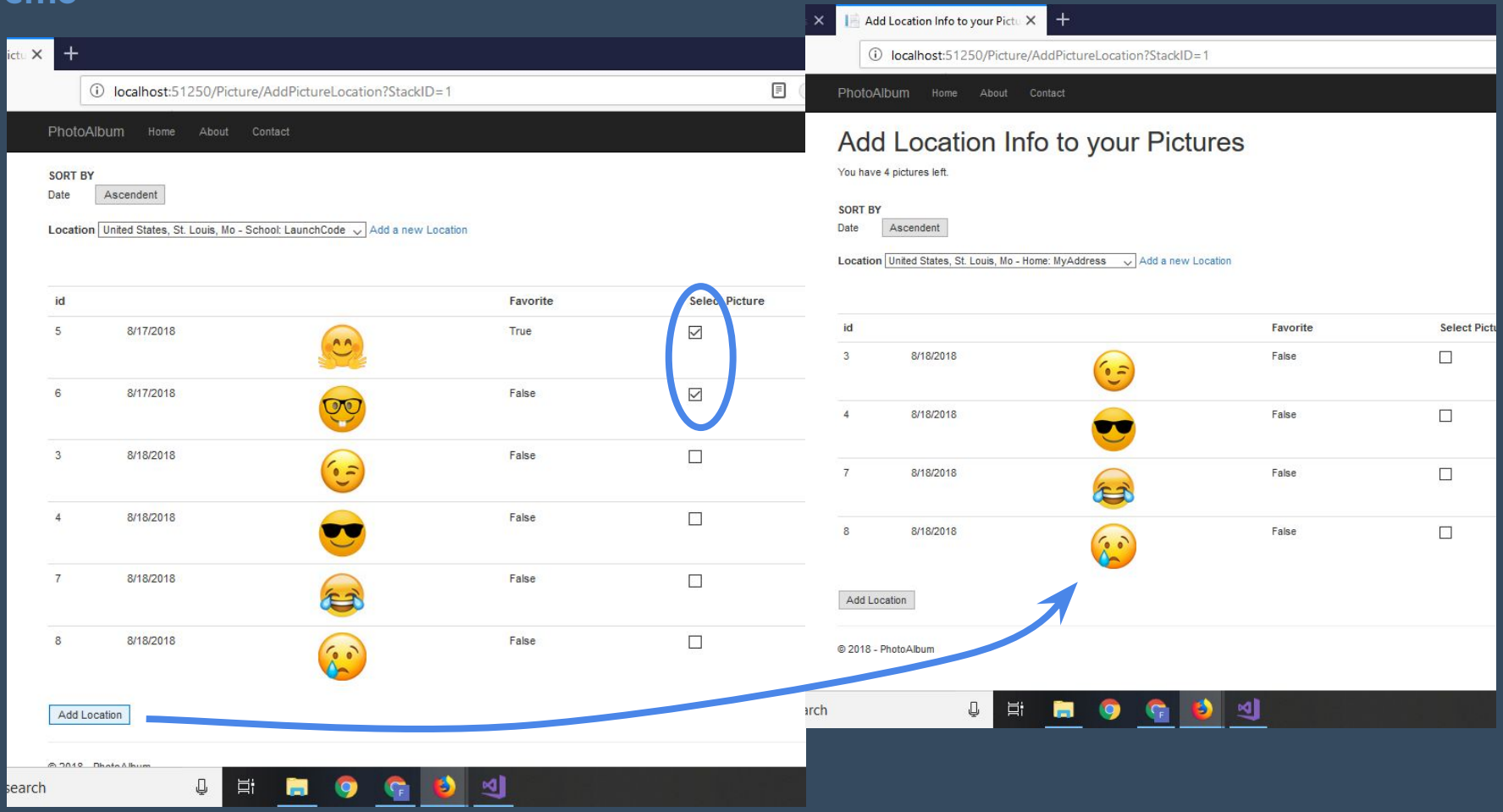


Photo Stack - PhotoAlbum
localhost:51250/Picture/Stack?s
PhotoAlbum Home About Contact
Photo Stack
You have 8 pictures in this Stack.
Add Location's info to the Picture
Add Event's info to the Picture
Add Author's info to the Picture
Add People's info to the Picture
SORT BY
Date Descendent
9 8/17/2018
10 8/17/2018
13 8/17/2018
14 8/17/2018
11 8/18/2018
Type here to search
Photo Stack
You have 8 pictures in this Stack.
Add Location's info to the Picture
Add Event's info to the Picture
Add Author's info to the Picture
Add People's info to the Picture
SORT BY
Date Ascendent
Favorite
16 8/18/2018
15 8/18/2018
12 8/18/2018
11 8/18/2018
14 8/17/2018
Photo Stack
You have 8 pictures in this Stack.
Add Location's info to the Picture
Add Event's info to the Picture
Add Author's info to the Picture
SORT BY
Date Ascendent
Location
16 8/18/2018
15 8/18/2018
12 8/18/2018
11 8/18/2018
14 8/17/2018

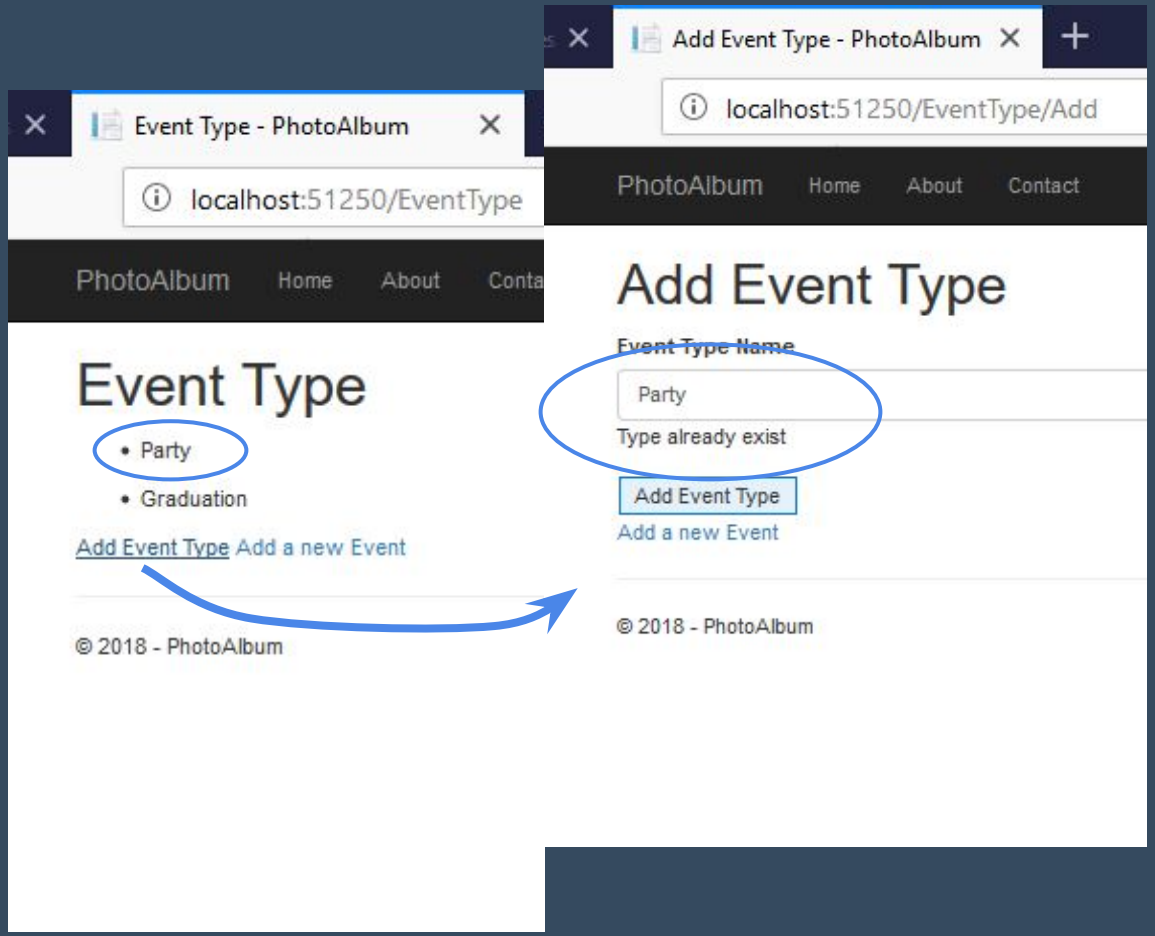
# Demo


localhost:51250/Location/Add
PhotoAlbum
Home
About
Contact
Add Location
Nation
City
Place Type
Home
Add a new Place Type | Edit | Remove
Place Name
Add Place
© 2018 - PhotoAlbum
localhost:51250/Place/Add
PhotoAlbum
Home
About
Contact
Add Place
School
Add Place
Add a new Location
© 2018 - PhotoAlbum
localhost:51250/Location/Add
PhotoAlbum
Home
About
Contact
Add Location
Nation
United States
City
St. Louis, Mo
Place Type
Home
Home
School
Add a new P
dit | Remove
Place Name
LaunchCode
Add Place
© 2018 - PhotoAlbum

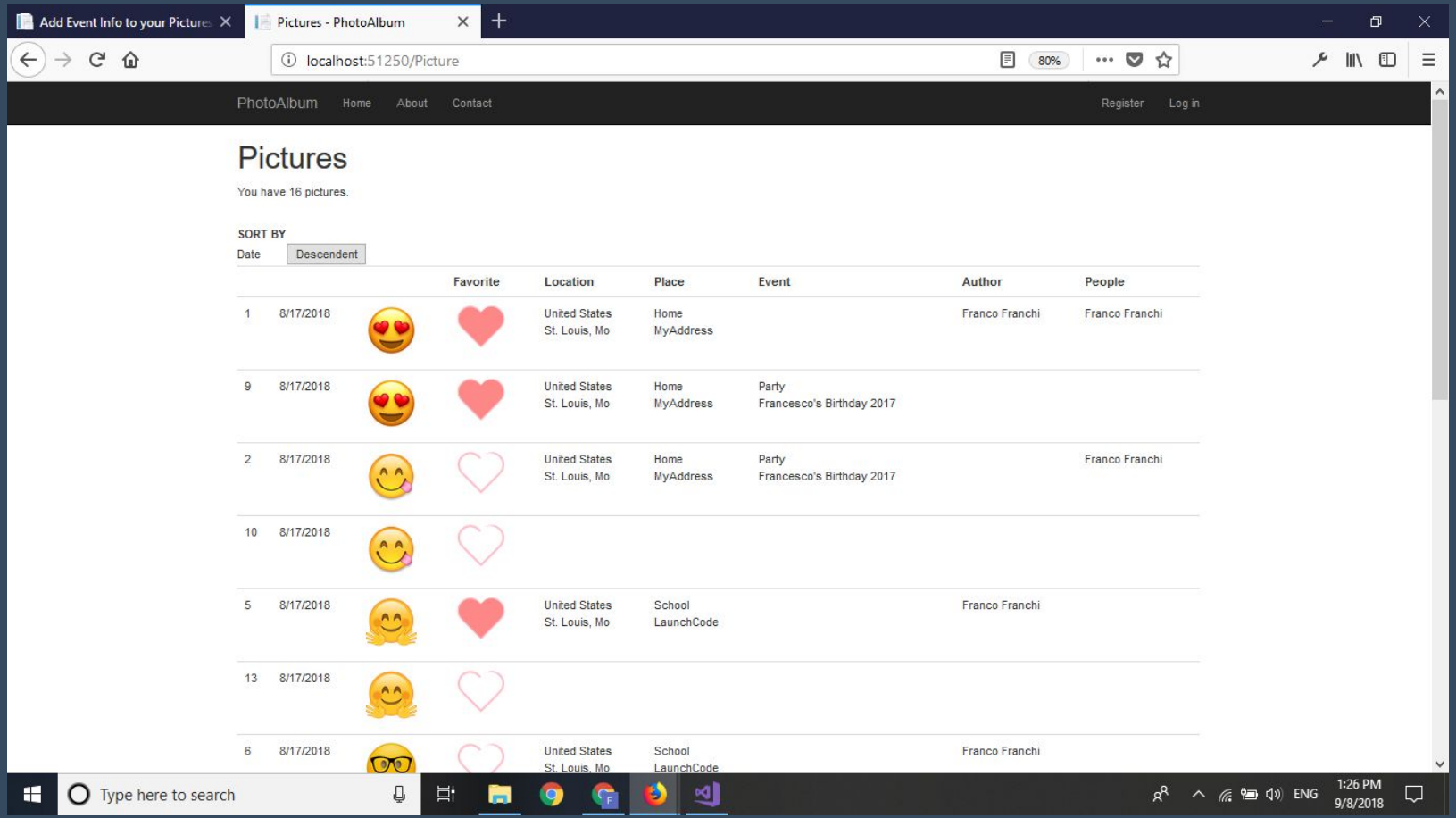
# Demo


localhost:51250/Picture/AddPictureLocation?StackID=1
PhotoAlbum
Home
About
Contact
SORT BY
Date
Ascendent
Location
United States, St. Louis, Mo - School: LaunchCode
Add a new Location
id
Favorite
Select Picture
5 8/17/2018 True
6 8/17/2018 False
3 8/18/2018 False
4 8/18/2018 False
7 8/18/2018 False
8 8/18/2018 False
Add Location
Add Location Info to your Pictures
You have 4 pictures left.
United States, St. Louis, Mo - Home: MyAddress
3 8/18/2018 False
4 8/18/2018 False
7 8/18/2018 False
8 8/18/2018 False
© 2018 - PhotoAlbum

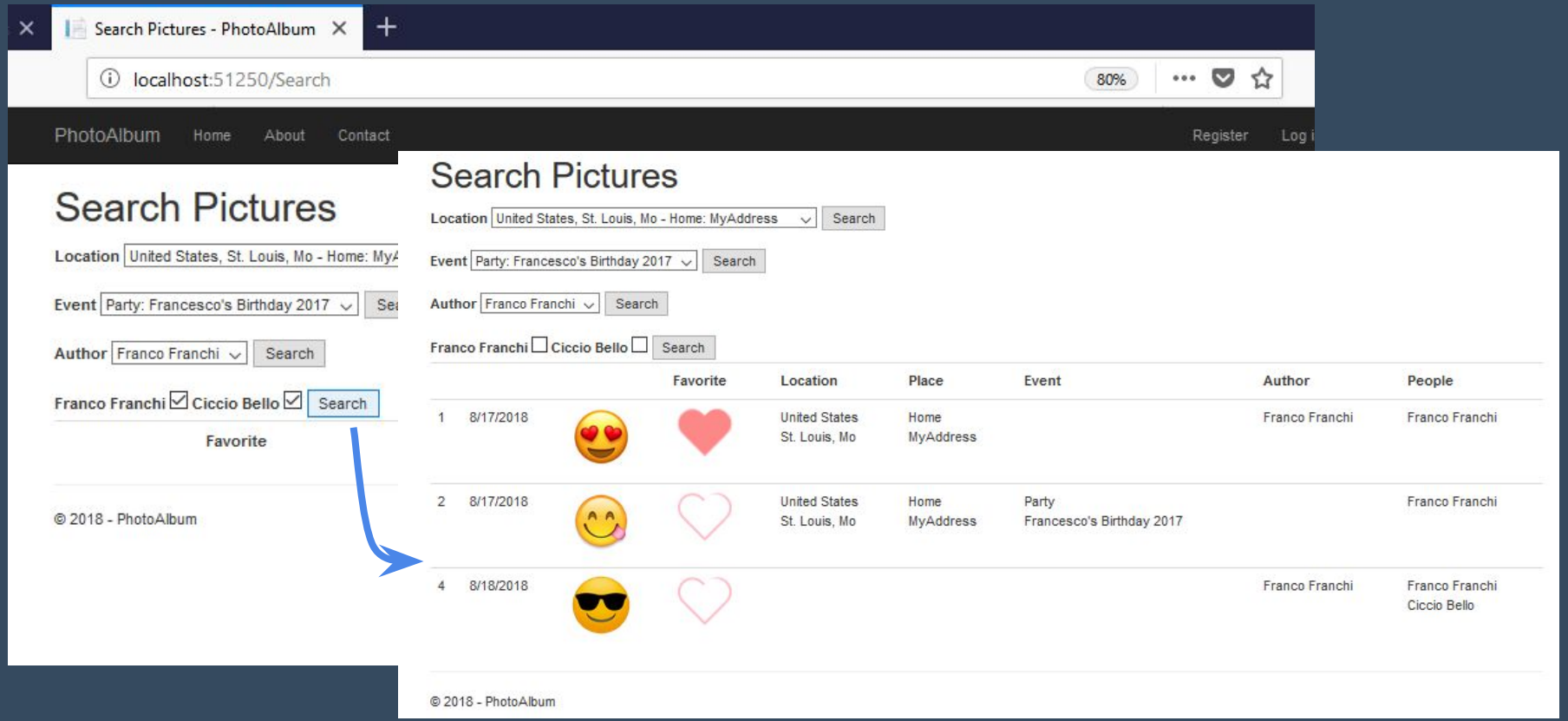
# Demo


Event Type - PhotoAlbum
localhost:51250/EventType
PhotoAlbum
Home
About
Conta
Event Type
Party
Graduation
Add Event Type
Add a new Event
© 2018 - PhotoAlbum
Add Event Type - PhotoAlbum
localhost:51250/EventType/Add
PhotoAlbum
Home
About
Contact
Add Event Type
Party
Type already exist
Add Event Type
Add a new Event
© 2018 - PhotoAlbum

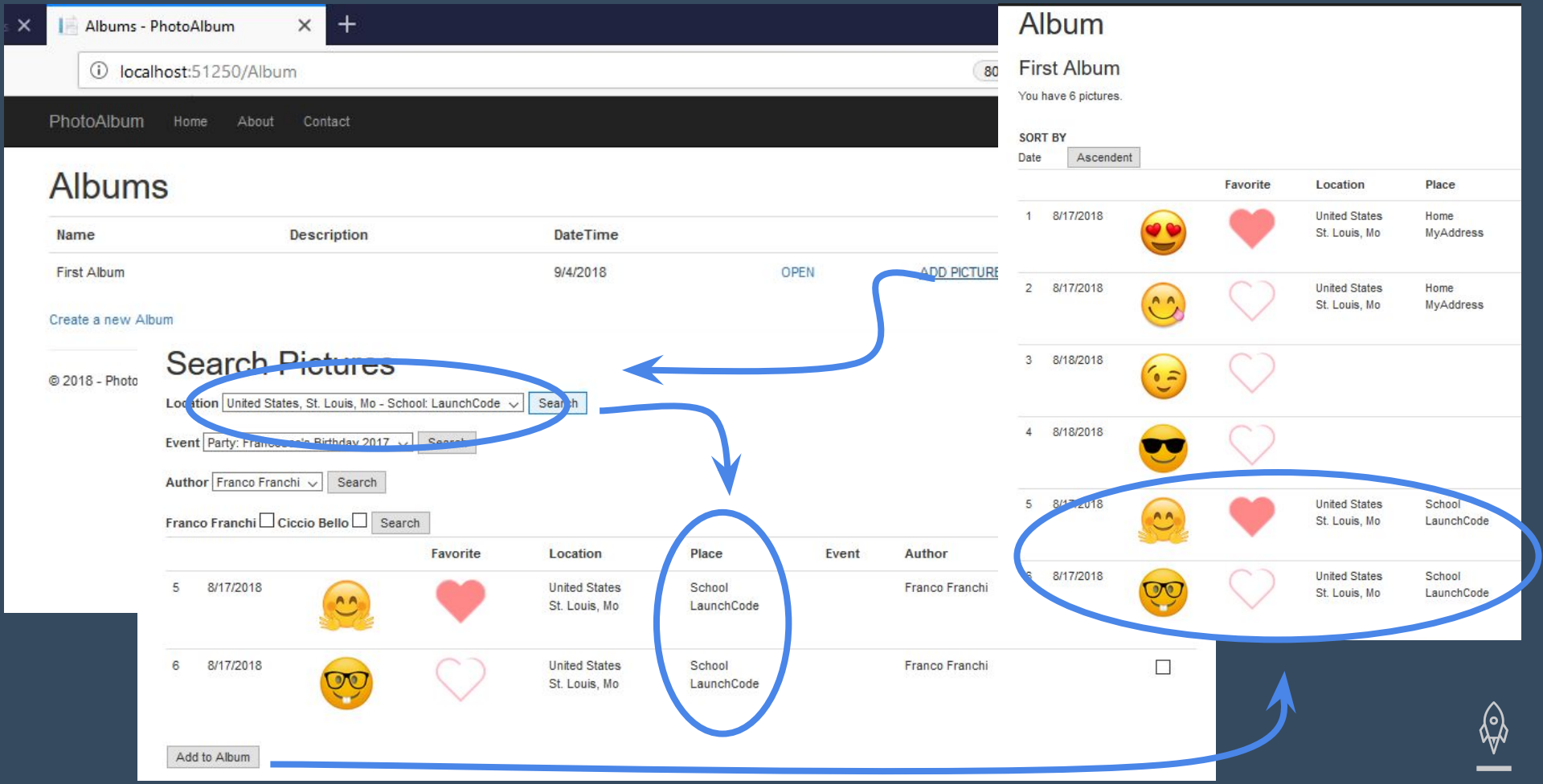
# Demo


Add Event Info to your Pictures
Pictures - PhotoAlbum
localhost:51250/Picture
80%
PhotoAlbum
Home
About
Contact
Register
Log in
Pictures
You have 16 pictures.
SORT BY
Date
Descendent
Favorite
Location
Place
Event
Author
People
1 8/17/2018 United States St. Louis, Mo Home MyAddress Franco Franchi Franco Franchi
9 8/17/2018 United States St. Louis, Mo Home MyAddress Party Francesco's Birthday 2017
2 8/17/2018 United States St. Louis, Mo Home MyAddress Party Francesco's Birthday 2017 Franco Franchi
10 8/17/2018
5 8/17/2018 United States St. Louis, Mo School LaunchCode Franco Franchi
13 8/17/2018
6 8/17/2018 United States St. Louis, Mo School LaunchCode Franco Franchi
Type here to search
ENG
1:26 PM
9/8/2018

# Demo


Search Pictures - PhotoAlbum
localhost:51250/Search
80%
PhotoAlbum
Home
About
Contact
Register
Search Pictures
Location United States, St. Louis, Mo - Home: MyA
Event Party: Francesco's Birthday 2017
Author Franco Franchi
Search
Franco Franchi Ciccio Bello Search
Favorite
© 2018 - PhotoAlbum
Search Pictures
Location United States, St. Louis, Mo - Home: MyAddress Search
Event Party: Francesco's Birthday 2017 Search
Author Franco Franchi Search
Franco Franchi Ciccio Bello Search
Favorite Location Place Event Author People
1 8/17/2018 United States St. Louis, Mo Home MyAddress Franco Franchi Franco Franchi
2 8/17/2018 United States St. Louis, Mo Home MyAddress Party Francesco's Birthday 2017 Franco Franchi
4 8/18/2018 Franco Franchi Franco Franchi Ciccio Bello
© 2018 - PhotoAlbum

# Demo


Albums - PhotoAlbum
localhost:51250/Album
PhotoAlbum
Home
About
Contact
Albums
Name
Description
DateTime
First Album
9/4/2018
OPEN
ADD PICTURE
Create a new Album
© 2018 - Photo
Search Pictures
Location
United States, St. Louis, Mo - School: LaunchCode
Search
Event
Author
Franco Franchi
Search
Franco Franchi
Ciccio Bello
Search
Favorite
Location
Place
Event
Author
5
8/17/2018
United States
St. Louis, Mo
School
LaunchCode
Franco Franchi
6
8/17/2018
United States
St. Louis, Mo
School
LaunchCode
Franco Franchi
Add to Album
Album
First Album
You have 6 pictures.
SORT BY
Date
Ascendent
Favorite
Location
Place
1
8/17/2018
United States
St. Louis, Mo
Home
MyAddress
2
8/17/2018
United States
St. Louis, Mo
Home
MyAddress
3
8/18/2018
4
8/18/2018
5
United States
St. Louis, Mo
School
LaunchCode
6
8/17/2018
United States
St. Louis, Mo
School
LaunchCode

# What I Learned

- Uploading Files.
- Complex query.
- Switch sorting order.
- Control multiple request buttons on the same page.

# What's Next

- Add facial recognition using Microsoft Azure Face API.
- Add AJAX requests.
- Learn Machine Learning technique in Microsoft Azure to create an Album suggestion feature.