

Plan Your Travel

Project Iteration I & II

CPS630 - Web Application
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Team #9

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Members	% of Tasks
Calvin Yap	Main page 100% Report 40% Read More Page 100% DB Maintain 20% PHP Class Lab 100% Photo Directory 20%
Nicky (Tu-Ngoc) Dam	Shopping Cart 40% About Us/Contact Us 100% Report 60% Photo Directory 80%
Anderson (Dong Sheng) Luan	Shopping Cart 60% Database 100% Login page 100% DB Maintain 80%

Objectives:

The “Plan your Travel” project is a website created to view and be inspired by the different popular travel destinations from all over the world through a magnitude of location photographs with descriptions. The website also provides suggested travel plans depending on a specific continent showcasing the suggested travel dates, air/cruise fare, and estimated total price.

Languages:

JavaScript, HTML, CSS, PHP, Bootstrap, JQuery, MySQL

Tools:

XAMPP, W3C, GitHub, Visual Studio, Notepad++, Atom

Design & Implementation of database maintain mode:

Enter Data into DB

ID	<input type="text"/>
Date	<input type="text" value="yyyy-mm-dd"/>
File Name	<input type="text"/>
Description	<input type="text"/>
Title	<input type="text"/>
Latitude	<input type="text"/>
Longitude	<input type="text"/>
<input type="button" value="Submit"/>	

Delete Entry

Student id	<input type="text" value="id"/>	<input type="button" value="Submit"/>
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Display Table

Display Table

Id	Date	File Name	Description	Title	Latitude	Longitude
1	2020-02-27	images/1.jpg	Eiffel Tower, Paris, France. The Eiffel Tower is a wrought-iron lattice tower on the Champ de Mars in Paris, France. It is named after the engineer Gustave Eiffel, whose company designed and built the tower.	Eiffel Tower	48.8584	2.2945
2		images/11.jpg	Eiffel Tower, Paris, France", "The Eiffel Tower is a wrought-iron lattice tower on the Champ de Mars in Paris, France. It is named after the engineer Gustave Eiffel, whose company designed and built the tower.	Eiffel Tower	48.8584	2.2945

For DB Maintain we used a simple PHP sql commands to create a functional php page in which we can run simple SQL commands in. The commands we can run are Insert and Delete and viewing the table. Here the form has error checking and auto increment for ID if none is chosen. This maintain mode can only be accessed by an administrator using the previous log in pages.

MySQL commands:

Create:

<input type="checkbox"/>	travelPhoto	★	Browse	Structure	Search	Insert	Empty	Drop	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/>	userlogin	★	Browse	Structure	Search	Insert	Empty	Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-

Two tables created

Add:

✓ 2 rows inserted.

```
INSERT INTO `travelPhoto` (`id`, `date`, `filename`, `description`, `title`, `latitude`, `longitude`) VALUES ('14', NULL, 'images/arg1.jpg', 'Perito Moreno Glacier, Santa Cruz Province, Argentina', 'The Perito Moreno Glacier located in the Los Glaciares National Park in southwest Santa Cruz Province, Argentina. It is one of the most important tourist attractions in the Argentinian Patagonia.', 'Perito Moreno Glacier', '-50.4967', '-73.1843');
INSERT INTO `travelPhoto` (`id`, `date`, `filename`, `description`, `title`, `latitude`, `longitude`) VALUES ('15', NULL, 'images/arg2.jpg', 'La Boca, Buenos Aires, Argentina', 'La Boca is a working-class area with a cluster of attractions near the Riachuelo River. Steakhouses and street artists surround Caminito, a narrow alley by brightly painted zinc shacks that evoke the district's early immigrant days. A cauldron of noise on match days, La Bombonera is the home ground of Boca Juniors soccer team. Modern art museum Fundación Proa has temporary and views of the old docks.', 'La Boca', '-34.6345', '-58.3631');
```

✓ 2 rows inserted.

```
INSERT INTO `travelPhoto` (`id`, `date`, `filename`, `description`, `title`, `latitude`, `longitude`) VALUES ('14', NULL, 'images/arg1.jpg', 'glacier located in the Los Glaciares National Park in southwest Santa Cruz Province, Argentina. It is one of the most important tourist attractions in the Argentinian Patagonia.', 'Perito Moreno Glacier', '-50.4967', '-73.1843');
INSERT INTO `travelPhoto` (`id`, `date`, `filename`, `description`, `title`, `latitude`, `longitude`) VALUES ('15', NULL, 'images/arg2.jpg', 'La Boca, Buenos Aires, Argentina', 'La Boca is a working-class area with a cluster of attractions near the Riachuelo River. Steakhouses and street artists surround Caminito, a narrow alley by brightly painted zinc shacks that evoke the district's early immigrant days. A cauldron of noise on match days, La Bombonera is the home ground of Boca Juniors soccer team. Modern art museum Fundación Proa has temporary and views of the old docks.', 'La Boca', '-34.6345', '-58.3631');
```

Close up of 2 rows being added

Delete:

✓ 1 row affected. (Query took 0.0095 seconds.)

```
DELETE FROM `travelPhoto` WHERE id = 1
```

One row deleted

Modify:

✓ 1 row affected. (Query took 0.0078 seconds.)

```
UPDATE `travelPhoto` SET filename = '2.jpg' WHERE id = 2
```

One row being updated

Search:

✓ Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)

```
SELECT * FROM `travelPhoto` WHERE 1
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

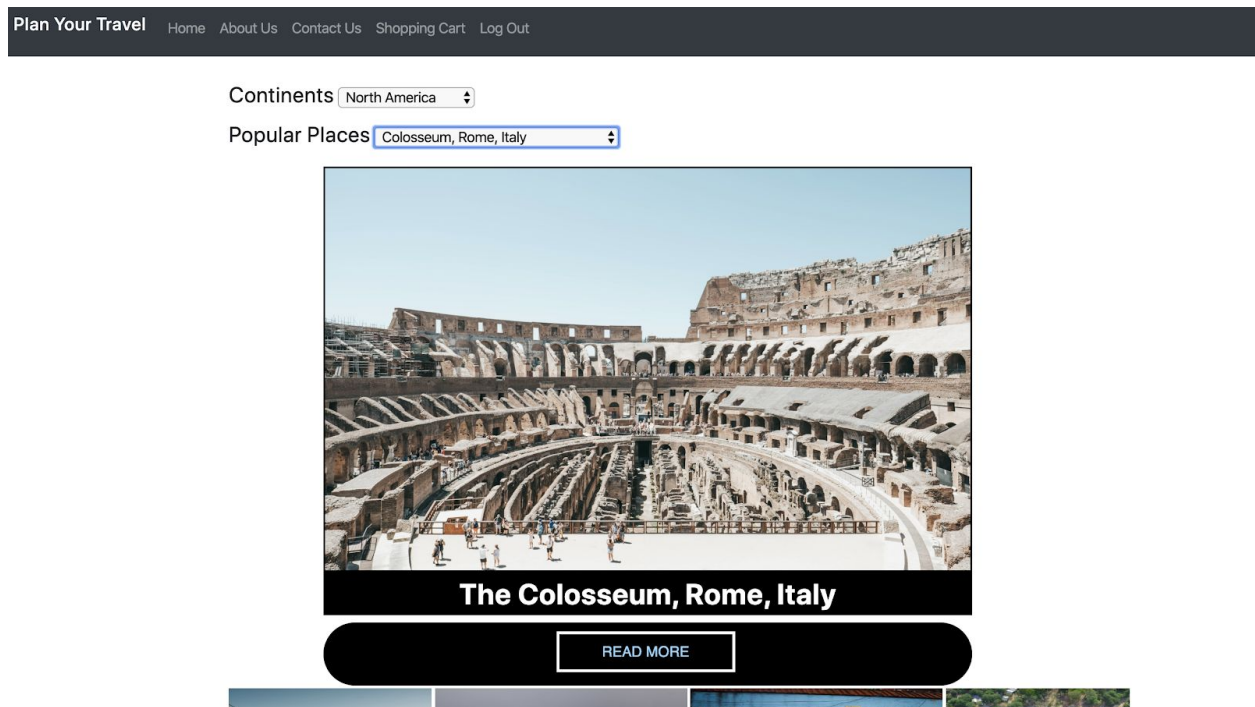
		id	date	filename	description	title	latitude	longitude
<input type="checkbox"/>	Edit	2	2020-02-27	2.jpg	Eiffel Tower, Paris, France. The Eiffel Tower is a...	Eiffel Tower	48.8584	2.2945

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Design & layout of application interfaces UIs:

Main page:



This is the main page of the Plan Your Travel website showcasing the selected popular place in the Dropdown menu.

Here in the initial landing we had a minimalistic design in mind and therefore we used Bootstrap for a navigation bar and as a fluid container class as responsive design was our priority. When resized, the nav bar will shrink as the links collapse. The layout of the grid will ensure that the main selected popular place will always have a 80% centered fill on the screen, no matter screen size.

Clicking the Countries dropdown menu will automatically bring out another dropdown menu for Countries. Clicking on that will bring out one last dropdown menu where the user can select an attraction, as shown below.

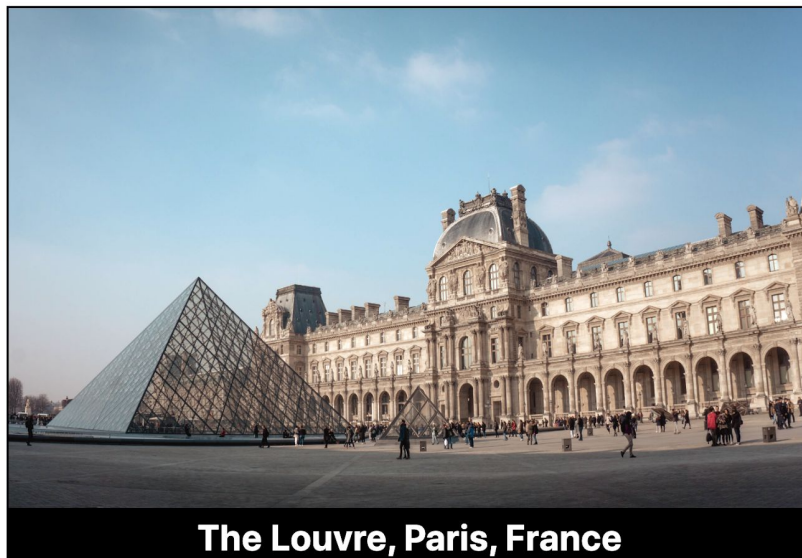
Continents Countries

Continents Countries Attractions
Popular Places



By choosing the Cn Tower as the attraction, an image of the CN tower will replace the main image of the webpage. Here each of the dropdown menus were created with HTML, CSS, JavaScript, jQuery, and PHP. The simple select dropdown menus were coded in HTML and the overall text size is styled with CSS. As for input recognition we used JavaScript Arrays as well as jQuery functions to replace each of the drop down menus options as they were cycled through. jQuery functions were used to hide the “Countries” and “Attractions” dropdown menus as “Continents” were rechosen. The image is again changed with jQuery functions to match the selected choice from the attractions dropdown or the popular place dropdown using the .onChange() function. The image file name and title of the attraction was extracted from the PHP defined classes.

Popular Places



Choosing from the Popular Places dropdown menu will show the respective image.



[READ MORE](#)

By selecting the Eiffel Tower as the destination, clicking on read more will open another page displaying the destination's description, ratings, and a link to add that leads to the shopping cart page.

This whole page was created using a PHP form handling system and styled with CSS. So by feeding in hidden input fields with the chosen location. We were able to create the same layout for every selected attraction with one php file. In the file it has 2 GET statements which extracts the location chosen and index of said choice from the drop down menus in the previous page.

Welcome to Eiffel Tower, Paris, France



"The Eiffel Tower is a wrought-iron lattice tower on the Champ de Mars in Paris, France. It is named after the engineer Gustave Eiffel, whose company designed and built the tower."

[Shopping Cart](#)

Name: Robert Smith

Rating: ★★★★★

Date:02/20/20

Time:12:13pm

This attraction was incredibly beautiful, I would love to go to Eiffel Tower, Paris, France again!

Here it uses the PHP defined class data to extract the title of the location at the top of the page, 2 photos of the same place, and a pre written description of the location.

Continents

Popular Places

Search

Back

Search for names...

Canada

USA

Brazil

Argentina

Panama

Costa Rica

China

Korea

South Africa

Finally we have also implemented a search function. On the main page you can click search at the top bar and an overlay with search options will appear. Here you can search up countries and some attractions. If you search up a country then it will take you to the shopping cart page, if you search up an attraction it will take you to the read me page for it. This was done through JavaScript, HTML, and CSS

Shopping Cart:

Travel Plans

Travel in North America

Travel in South America

Travel in Central America

Travel in Asia

Start Date:

Saturday, February 29th, 2020

End Date:

Saturday, March 7th, 2020

Total Duration:

7 days

Air Fare/Cruise Fare:

\$5000

Tour ID Number:

100

Total Price:

\$10000

Destination 1: CN Tower, Canada

Destination 2: Banff National Park, Canada

Destination 3: Statue of Liberty, USA

Right side of the page showing the Travel plans for each continent shown. Clicking on each button will show the corresponding travel plans.

Bootstrap, JavaScript, HTML and CSS were used to construct the layout of two main features of the page: Travel Plans (right) and Order Information (left). By clicking on the travel buttons categorized by continents, the user is able to see the recommended travel plan appear listing the travel dates, duration, air/cruise fares, tour ID number, and the total price for that specific continent. When the user clicks on the different “Travel in” buttons, the google map API will load and show the pinned locations recommended on the travel plan. On the left panel, the user has to fill out the form of number of travellers, and the respective ages. It also showcases the total price with tax for the whole trip.



Travel in North America Button was selected and 3 suggested locations were automatically shown in google maps

Order Information

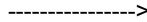
Number of Travelers

☐ 1 ☐ 2 ☐ 3 ☐ 4

Total Price with Tax:

\$0.00

Submit



Order Information

Number of Travelers

☐ 1 ☒ 2 ☐ 3 ☐ 4

Select Age:

Total Price with Tax:

\$0.00

Submit

Order information panel displaying a form that the user must fill out. Depending on the number of travelers selected, the corresponding number of age selection will appear. For example, if there are 2 travelers selected, two dropdown menus will appear to prompt the user to select the age.

Travel Plans

Travel in North America Travel in South America Travel in Central America Travel in Asia

Start Date:

Saturday, February 29th, 2020

End Date:

Saturday, March 7th, 2020

Total Duration:

7 days

Order Information

Number of Travelers

☐ 1 ☒ 2 ☐ 3 ☐ 4

Select Age:

Total Price with Tax:

\$13,000.00

Submit

The total price will also be visible once a travel plan is selected as shown above.

Travel Plans

Travel in North America Travel in South America Travel in Central America Travel in Asia

Start Date:

Saturday, February 29th, 2020

End Date:

Saturday, March 7th, 2020

Total Duration:

7 days

Air Fare/Cruise Fare:

\$3000

Tour ID Number:

100

Total Price:

\$13000

- Destination 1: Gatun Lake, Panama
- Destination 2: San Blas Islands, Panama
- Destination 3: Arenal Volcano, Costa Rica

Map Satellite

Selecting the 'Travel in Central America', will generate the travel plane with emphasis on the destinations pinpointed on the map.

Travel Plans

Travel in North America
Travel in South America
Travel in Central America
Travel in Asia

Order Information

Number of Travelers

1 2 3 4

Total Price with Tax:

\$0.00

Submit

Map
Satellite

After selecting a Continent:

Travel Plans

Travel in North America
Travel in South America
Travel in Central America
Travel in Asia

Start Date:

Saturday, February 29th, 2020

End Date:

Saturday, March 7th, 2020

Total Duration:

7 days

Air Fare/Cruise Fare:

\$5000

Tour ID Number:

100

Total Price:

\$10000

Destination 1: CN Tower, Canada

Destination 2: Banff National Park, Canada

Destination 3: Statue of Liberty, USA

Order Information

Number of Travelers

1 2 3 4

Select Age: Infant (0 - 2) Youth (12 - 25) Adult (26 - 59)

Total Price with Tax:

\$12,000.00

Submit

Map
Satellite

Full Overview of Shopping Cart webpage

Design and Structure of Application Databases:

Table Name: Travel Photo

Primary Key: ID

Key: date, filename, description, title, latitude, longitude

Table Name: Userlogin

Primary: Username

Key: Password

How each table is related to each other:

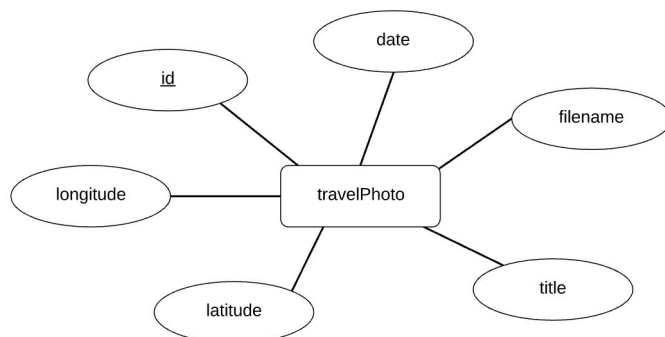
Currently, the tables are not related to each other in any way as one contains travel photos information while the other contains User login information.

How tables can be accessed via keys: (include diagram)

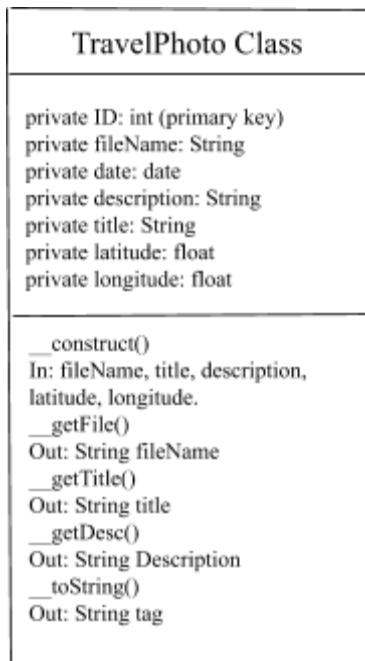
cps630 travelPhoto	
🔑 id : int(11)	
📅 date : date	
📄 filename : varchar(100)	
📄 description : varchar(1000)	
📄 title : varchar(100)	
# latitude : float	
# longitude : float	

cps630 userlogin	
🔑 Username : varchar(20)	
📄 Password : varchar(20)	

Two tables are shown above: travelPhoto and userlogin. Both tables show their primary keys as well as the keys.



Class diagram:



The only class we have used in our project was the TravelPhoto class and here it is drawn out as a class diagram element. As we progress further onto iteration 3 we will be creating more classes and then there will be relationships built on that. But, for now this is what we have.

We can analyze the MVC patterns created by this class by first splitting MVC into its 3 respective parts. For M or Model we use this class as a sudo database when creating objects in PHP as well as actually implementing this in our mySql database. For V or View we use the data encapsulated to display items to the user. Such items include: the title or name of attraction, the description of it, its geographical location, and a photo of it. We also use the get methods and toString function in order to access these private variables. Finally, for C or Controller we use the mySql database and PHP to import new elements and update photos. For example if we wanted to change the photo of a certain attraction we would use the mySql database to first add in a new entry then we would use PHP to deliver the new image to the user or to the view.