

Overview

In this project, you will design and implement a web application for a fictional site that sells reproductions of famous art classics. Some parts of the site will be available to the public; other parts in the site will only be available to site owners.

Database Schema

Art database schema provided. See figure 14.26 in chapter 14 (page 670).

USE CASE NAME:	Bootstrap Theme and Site Design
DESCRIPTION:	Design site's appearance by customizing Bootstrap
1.	<p>Use the Customize facility in the Bootstrap website (http://getbootstrap.com/customize/), which allows you to create a customized CSS theme for Bootstrap.</p> <p>You may want to make use of a color scheme designer such as http://colorschemedesigner.com, http://www.colourlovers.com, https://kuler.adobe.com, or http://design-seeds.com if you need help coming up with a color scheme. Your color scheme must be different from the default Bootstrap install (and different also from those available from http://bootswatch.com).</p> <p>Your customized theme must use two fonts from the Google Web Fonts collection.</p> <p>Some of the changes you will want to make to your site, such as header and footer treatments, will require additional CSS formatting outside of Bootstrap.</p> <p>Minor style changes to the basic Bootstrap “look” will receive lower marks than those groups that make more substantial changes.</p>

USE CASE NAME:	Home Page
DESCRIPTION:	Home page for the web site
1.	<p>The system displays a logo and navigation system (see Navigation use case). It should also contain a carousel (see Bootstrap site) with at least three slides. Each slide should act as a promotion of what the site offers (i.e., it is marketing). Data should come from database and should be different on each visit.</p> <p>Every page should display a certain number of relevant visual boxes that contain other related data. For the home page: top works/artists (based on sales), new additions (assume the order of the art works table is the order they have been added). From a design standpoint, these other boxes must be encapsulated as functions.</p>

USE CASE NAME:	Navigation
DESCRIPTION:	The web site's navigation system.
1.	<p>The system must provide a way to navigate to different sections of the site. There should be a primary navigation system with links to Home Page, About Us, Advanced Search, and Browse. The browse must have a submenu (you can use Bootstrap's dropdown navigation) that provides options for browsing artists, art work, genres, or subjects. The primary navigation must be available everywhere in the site.</p> <p>There needs to be a utility menu that is available everywhere in the site. It must have links to View Cart, View Favorites List, My Account, Register and Login.</p> <p>The system should also have a secondary navigation system that displays genres, subjects, and popular artists. The users can then click on any of these and go to either the Single Genre/Subject or the Search Results use case. There are too many artists to display all of them in the secondary navigation. Show just a small subset, namely, the top 10 based on sales and only show those that have works (hint SQL GROUP BY).</p>

USE CASE NAME:	About Us
DESCRIPTION:	Display information about this site
1.	The system will display information about this site. Be sure to mention that this site is hypothetical and was created as a term project for SODV1201 at Bow Valley College taught by YYYYYYY . As well, be sure to list the group member names and roughly what parts of the project each member implemented.

USE CASE NAME:	Display Single Artist
DESCRIPTION:	System displays a single artist for view by any user.
1.	This use case is initiated when a user selects a single artist to display (e.g., clicks a link that takes the user to this page).
2.	<p>The system displays information about a single artist. All of the information in the artists table should be displayed. There should be some way to view all the art works by the artist</p> <p>This page must allow the user to add the artist to a session-based favorites list (i.e., go to the Add To Favorites use case). In this case, it will be added to the favorite artists list.</p> <p>Every page should display a certain number of relevant visual boxes that contain other related data. For artist page: Related Artists (use birth date and/or nationality). From a design standpoint, these other boxes must be encapsulated as functions.</p>

USE CASE NAME:	Display Single Art Work
DESCRIPTION:	System displays a single art work for view by any user.
1.	This use case is initiated when a user selects a single art work to display (e.g., clicks a link that takes the user to this page).
2.	<p>The system displays information about a single art work. Be sure to turn data into hyperlinks when appropriate (e.g., artist, genre, etc). Most of the information in the ArtWorks table should be displayed, except Cost. You should also display the genres and subjects for this art work.</p> <p>Instead of displaying the OriginalHome field, you must display information about the related museum from the Gallery Table. Put the gallery information within a Bootstrap collapsible accordion element (see Javascript section of Bootstrap website).</p> <p>This page must allow the user to add the art work to a session-based favorites list (i.e., go to the Add To Favorites use case). In this case, it will be added to the favorite art works list.</p> <p>This page must allow the user to add the art work to a session-based shopping cart (i.e., go to the Add To Cart use case).</p> <p>Every page should display a certain number of relevant visual boxes that contain other related data. For works page: Related Works (use genre and/or subject), Other Customer Purchases (use order and order details table to display other works that customers also purchased who purchased the current work). From a design standpoint, these other boxes must be encapsulated as functions.</p>

USE CASE NAME:	Simple Search
DESCRIPTION:	System allows user to search for artists or art works from a single search box.
1.	This use case is initiated when a user enters text into search box and hits some type of submit button or link. Note: this search box should be accessible everywhere in the site.
2.	<p>The system will search for results that match the art work title. The search should be a wildcard search (i.e., Like "searchvalue%").</p> <p>The system goes to the Search Results use case.</p>

USE CASE NAME:	Advanced Search
DESCRIPTION:	System allows user to search for artists or art works that match a set of criteria
1.	This use case is initiated when a user selects an advanced search link/button.
2.	<p>The system allows the user to specify what kind of result they are looking for: artist or art work. The system will allow the user to specify different search criteria depending upon what kind of result they are looking for.</p> <p>If they are looking for matching artists, then the search criteria will be: artist name.</p> <p>If they are looking for matching art works, then the search criteria will be: art work title, year of work range, and cost range.</p> <p>The user can select art work criteria or artist criteria but not both at the same time.</p> <p>The system goes to the Search Results use case.</p>

USE CASE NAME:	Search Results
DESCRIPTION:	System displays a listing of search results
1.	This use case is initiated after the user makes a search request or clicks a listing-type link.
2.	The system will display, depending on the type of search, matching artists or art works, or both. Each result should have either the artist name and art work title as a link to the appropriate page. You must also add other information to each art work search result, such as images, or add to favorite or cart links.
3.	Provide the ability to change the sort order of the artists or art works. For the artist list, sort by last name but provide option for ascending or descending. For the art works list, provide option to sort by title, MSRP, or year, and provide option for ascending or descending.

USE CASE NAME:	Add To Favorites
DESCRIPTION:	Way to add an item to the user's favorites.
1.	Initiated when user clicks the Add item to favorites link/button.
2.	The system will add the item to the appropriate favorites (i.e., artist or art work) list and then either go to the View Favorites use case or indicate visually somehow that the item has been added to the favorites. The favorites list only needs to last as long as that session.

USE CASE NAME:	View Favorites
DESCRIPTION:	Way to view and modify the contents of user's favorites list.
1.	Initiated when user adds an item to the favorites list, or when user clicks the view favorites link/button.
2.	The system will display a listing of the contents of each of the two favorites list (with the same behavior as the Search Results use case). Allow the user to modify the favorites list's contents (i.e., remove artist or art work).

USE CASE NAME:	Add To Cart
DESCRIPTION:	Way to add an art work to the user's shopping cart.
1.	Initiated when user clicks the Add item to Cart link/button.
2.	<p>The system will add the art work to the shopping cart list and then either go to the View Cart use case or indicate visually somehow that the item has been added to the Cart.</p> <p>Note: you will need to find out from the user the artwork's frame, glass, and matt options (from the database) each time a painting is added to the cart. Whether you do this on a separate page or on the same page the user was on when the Add To Cart button was clicked, is up to you. Note: the user should also have the option to have no frame, glass, or matt.</p> <p>The cart only needs to last as long as that session.</p>

USE CASE NAME:	View Cart
DESCRIPTION:	Way to view and modify the contents of user's shopping cart.
1.	Initiated when user adds an item to the cart, or when user clicks the view cart link/button.
2.	<p>The system will display a listing of the contents of the shopping cart list (with the same behavior as the Search Results use case). Allow the user to modify the cart's contents (i.e., remove art works and change the quantity; if you want you can allow the user to also alter the frame, glass, and matt options. There should be a place to see the subtotal for each item in the cart as well as the total cost.</p> <p>Note: the subtotal = (MSRP + Frame Price + Glass Price + Matt Cost) * Quantity</p> <p>The matt cost is the same regardless of which matt was selected. Each matt costs \$25. The frame and glass prices are found in the database.</p> <p>Warning: this is probably the most difficult of all the use cases.</p>

USE CASE NAME:	Browse Genres
DESCRIPTION:	Section home for browsing genres
1.	The system displays a list that displays all the genres, along with their genre image (see art-images/genres) sorted by Era then GenreName. Each should be a link to Single Genre case.

USE CASE NAME:	Browse Subjects
DESCRIPTION:	Section home for browsing subjects
1.	The system displays a list that displays all the subjects, along with their subject image (see art-images/subjects) sorted by SubjectName. Each should be a link to Single Subject case.

USE CASE NAME:	Single Genre
DESCRIPTION:	Displays information for a single genre
1.	<p>The system displays information from genre table for specified single genre.</p> <p>It must also display list of all art works for that genre with the same functionality as the Search Results case (hint encapsulate this functionality as function so no code duplication between pages).</p>

USE CASE NAME:	Single Subject
DESCRIPTION:	Displays information for a single subject
1.	<p>The system displays list of all art works for that subject with the same functionality as the Search Results case (hint encapsulate this functionality as function so no code duplication between pages).</p>

USE CASE NAME:	Login
DESCRIPTION:	User must be able to login
1.	

USE CASE NAME:	Update customer profile
DESCRIPTION:	User should be able to update his own profile information
1.	This information should be updated in the Customers table.

USE CASE NAME:	Register user
DESCRIPTION:	User should be able to register account
1.	See project 2 & 3 in textbook Chapter 15 (page 731-733)

USE CASE NAME:	Checkout
DESCRIPTION:	User should be able to checkout and produce an invoice
1.	This should be a simulated checkout process. Make sure to ask for shipping information and payment information, and produce an invoice. The data about the checkout should be added to the Orders and OrderDetails. Payment information will not be saved anywhere.

USE CASE NAME:	Browse Galleries
DESCRIPTION:	User should be able to browse galleries
1.	See project 2 in textbook Chapter 19 (page 928-929)

USE CASE NAME:	Record visits
DESCRIPTION:	System should log visits to paintings.
1.	Each visit to a painting should be recorded in the Visits table.

USE CASE NAME:	Add reviews
DESCRIPTION:	Authenticated user should be able to add a review to a painting.
1.	<p>Reviews should be saved to the Reviews table.</p> <p>Don't make the user enter the review date (you can programmatically set that), and use the appropriate HTML5 control for entering a rating between 1-5. Alternately, you can use a fancy jQuery widget to enter the rating.</p> <p>Add a review counter field to the Painting table. This counter should be incremented when a new review is added.</p>

USE CASE NAME:	View reviews
DESCRIPTION:	All users should be able to view reviews to a painting.
1.	All users (authenticated and non-authenticated) should be able to view the reviews for a painting image. For administrators, there must be a way to delete reviews directly from the travel image page

USE CASE NAME:	Delete reviews
DESCRIPTION:	Administrators should be able to delete reviews
1.	<p>Administrators, there must be a way to delete reviews directly from the painting page.</p> <p>Reviews counting should be decremented in the Painting table.</p>

USE CASE NAME:	Update user profile
DESCRIPTION:	Administrators should be able to update user profiles
1.	Administrators the ability to edit the Customers table (add this as a link to the utility menu). They should be able to see a list of all users, and then be able to select a user to update. Appropriate validation (last name, city, address and country not blank, proper email) should be covered. Be sure to use the best user input types.

Guidance

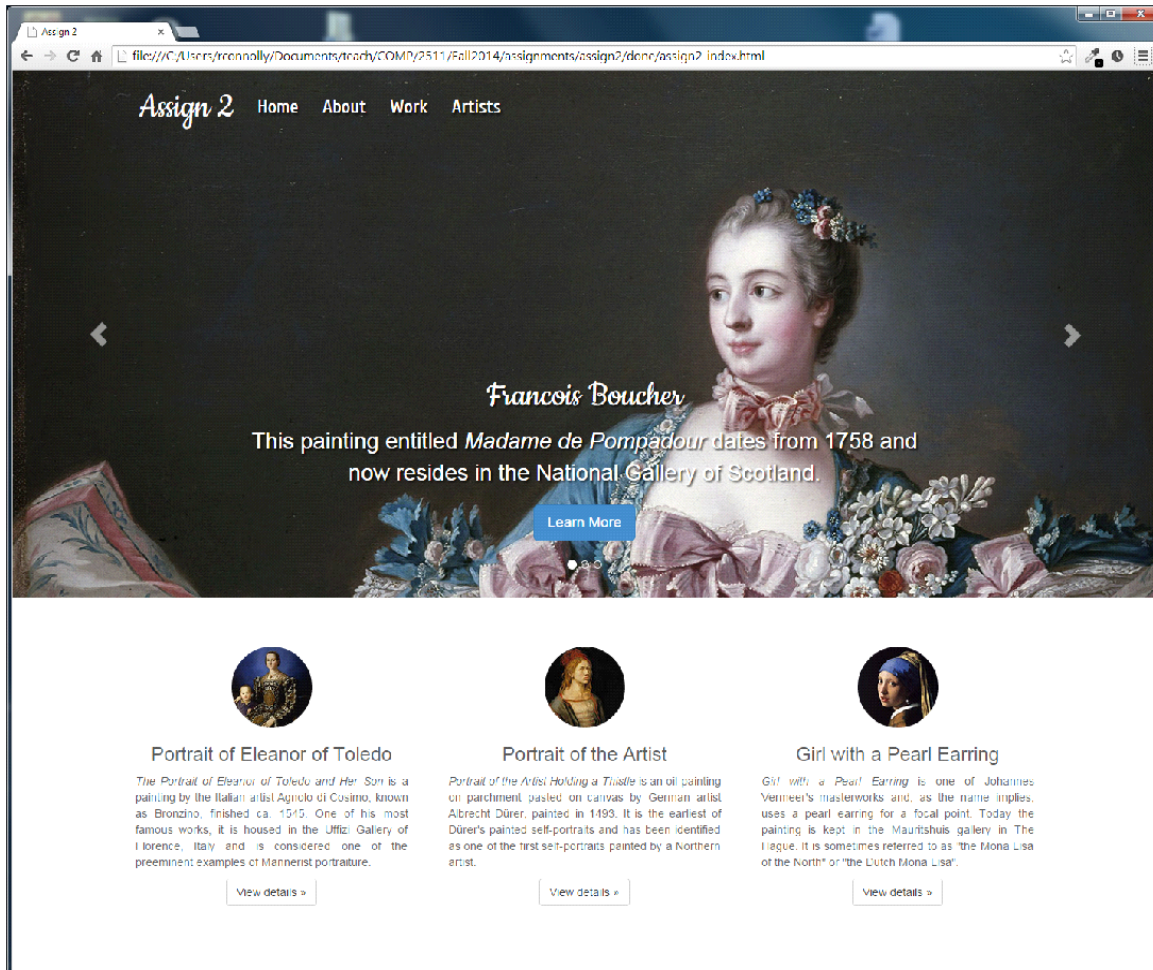
This is substantial assignment and your group will likely need to invest 50-70 hours into it. I would recommend the following process.

1. This is a data-driven site, so I would recommend beginning by constructing the data access layer: you can use that provided in Lab14 as your starting point. To begin, create data access objects for Artist, ArtWork, Genres, Subjects, and Galleries. The architecture provided in lab6 gives you GetAll() and GetByID() functionality already. You will need to add additional methods that match the functionality required by the use cases. For instance, the ArtWorks data access object, will also need methods such as GetForArtist(), GetForGenre(), GetForSubject, GetTopSellers(), and GetOtherCustomerPurchases(). All these other methods are simply wrappers for different SQL statements. Some of these methods can be implemented as you need them.
2. Write testers for each data access object so that you know each works as expected.
3. Construct your user interface.
4. Customize the bootstrap design.
5. Implement the search results page.
6. Add session abilities for favorites lists.
7. Add session abilities for shopping cart.

SODV1201 – Introduction to Web programming – Group project – Art store

You can use the following layout for inspiration (taken from the course textbook). You can also use code from your textbook, so long as you give proper attribution.

Landing page:



Single artist:

COMP3512 - Assign #1

localhost:3401/assign1/Part02_SingleArtist.aspx?id=19

Assign 1

Home

About Us

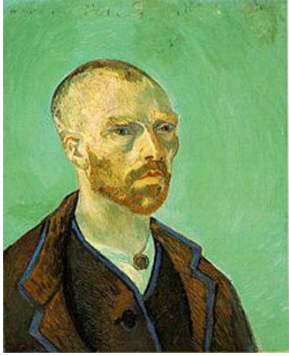
Pages

Your Full Name Here

Search Paintings

Search

Vincent Van Gogh




Vincent Willem van Gogh was a Dutch post-Impressionist painter whose work, notable for its rough beauty, emotional honesty, and bold color, had a far-reaching influence on 20th-century art. After years of painful anxiety and frequent bouts of mental illness, he died at the age of 37 from a self-inflicted gunshot wound. His work was then known to only a handful of people and appreciated by fewer still.

♥ Add to Favorites List


Artist Details	
Date:	1853 - 1890
Nationality:	Netherlands
More Info:	http://en.wikipedia.org/wiki/Van_Gogh

Art by Vincent Van Gogh




Self Portrait, 1887

View Wish Cart




Potato Eaters, 1885

View Wish Cart




Portrait of Dr. Gachet, 1890

View Wish Cart




Sunflowers, 1888

View Wish Cart




Décoration for the Yellow House, 1888

View Wish Cart




Sidewalk Café at Night, 1888

View Wish Cart



Starry Night, 1889

View Wish Cart



Self Portrait With Bandaged Ear, 1889

View Wish Cart

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Search:

When requested by link, just display filter options

When requested via search box in menu, perform a filter by title

Image and title should be appropriate links to Part03_SingleWork.aspx

Filter by Description should search for matches in description field and highlight all occurrences

The screenshots illustrate the search functionality of the art store. The first screenshot shows the 'Filter by Title' option selected. The second screenshot shows the search results for 'girl' with three items: 'Girl Before a Mirror', 'Symphony in White, No. 1: The White Girl', and 'Little Girl in a Blue Chair'. The third screenshot shows the 'Filter by Description' option selected, with search results for 'Medici' highlighting occurrences in the descriptions of 'Adoration in the Forest', 'The Birth of Venus', and 'Adoration of the Magi'.

Search Results (Filter by Title: girl)

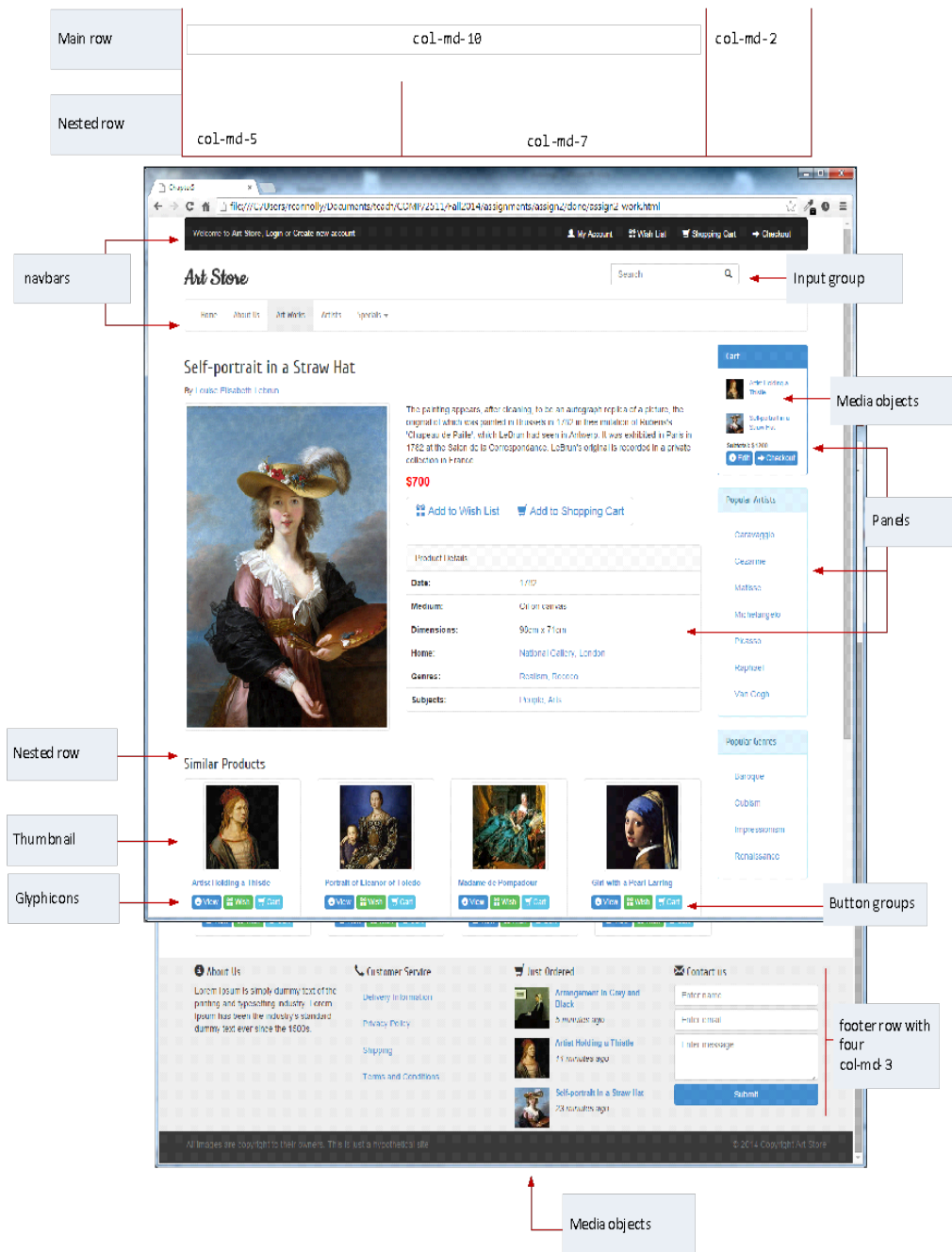
- Girl Before a Mirror**
Girl Before a Mirror shows Picasso's young mistress Marie-Thérèse Walter, one of his favorite subjects in the early 1930s. Her white-haired profile, rendered in a smooth lavender pink, appears serene. But it merges with a more roughly painted, frontal view of her face—a crescent, like the moon, yet intensely yellow, like the sun, and "made up" with a gliding of rouge, lipstick, and green eye-shadow. Perhaps the painting suggests both Walter's day-self and her night-self, both her tranquility and her vitality, but also the transition from an innocent girl to a worldly woman aware of her own sexuality.
- Symphony in White, No. 1: The White Girl**
Symphony in White, No. 1, also known as *The White Girl*, is a painting by James Abbott McNeill Whistler. The work shows a woman in full figure standing on a wolf skin in front of a white curtain with a lily in her hand. The colour scheme of the painting is almost entirely white. The model is Joanna Heffernan, the artist's mistress. Though the painting was originally called *The White Girl*, Whistler later started calling it *Symphony in White, No. 1*. By referring to his work in such abstract terms, he intended to emphasise his "art for art's sake" philosophy. Whistler created the painting in the winter of 1861–62, though he later returned to it and made alterations. It was rejected both at the Royal Academy and at the Salon in Paris, but eventually accepted at the Salon des Refusés in 1863. This exhibition also featured Édouard Manet's famous *Déjeuner sur l'herbe*, and together the two works gained a lot of attention. *The White Girl* shows clearly the influence of the Pre-Raphaelite Brotherhood, with whom Whistler had recently come in contact. The painting has been interpreted to later art critics both as an allegory of innocence and its loss, and as a religious allusion.
- Little Girl in a Blue Chair**

Search Results (Filter by Description: Medici)

- Adoration in the Forest**
Adoration in the Forest is a painting depicting the infant Jesus lying on the ground, surrounded by shepherds, kings, ox, ass – there is no Joseph. Cosimo de' Medici, in later times it is the story of a mutiny in the U.S. Army.
- The Birth of Venus**
The Birth of Venus is a 1486 painting by Sandro Botticelli. Botticelli was commissioned to paint the work by the Medici family of Florence, specifically Lorenzo di Pierfrancesco de' Medici under the influence of his cousin Lorenzo de' Medici, close friend to Botticelli. It depicts the goddess Venus, having emerged from the sea as a fully grown woman, arriving at the sea-shore (which is related to the Venus Anadyomene motif). The painting is on display at the Uffizi Gallery in Florence, Italy.
- Adoration of the Magi**
The Adoration of the Magi is a painting by the Italian Renaissance master Sandro Botticelli, dating from 1475 or 1476. It is housed in the Uffizi of Florence. Botticelli was commissioned to paint at least seven versions of The Adoration of the Magi. The Adoration of the Magi theme was popular in the Renaissance Florence. The work was commissioned by Gaspare di Zanobi del Lama, a banker of humble origins and dubious morality connected to the House of Medici, for his chapel in the church of Santa Maria Novella (now destroyed). In the scene are present numerous characters among which are several members of the Medici family: Cosimo de' Medici (the Magus kneeling in front of the Virgin, described by Vasari as "the finest of all that are now extant for its life and vigour"), his sons Piero (the second Magus kneeling in the centre with the red mantle) and Giovanni (the third Magus kneeling on the right, with the red mantle).

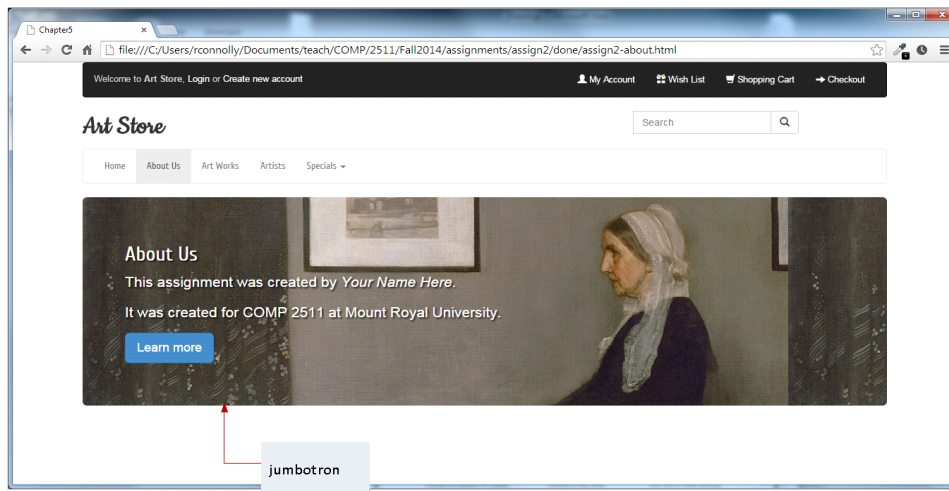
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Single art:



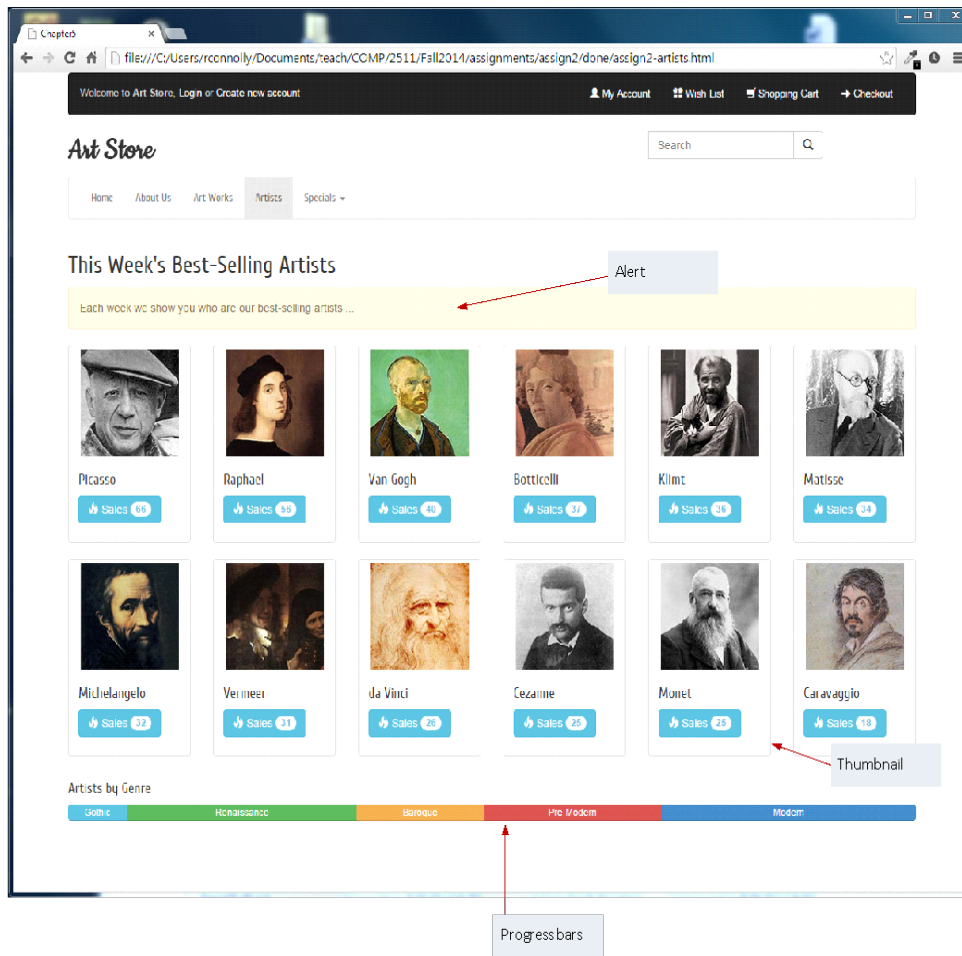
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About:



Best-selling artist:

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Search:

Advanced Art Work Search

Search titles

Subject: ☐ History ☐ Person ☐ Landscape


























Select Genre

Filter




Bulk Actions

Apply To All

Paintings

	Title	Artist	Year	Genre	Actions
<input type="checkbox"/>	 <i>Death of Marat</i>	David, Jacques-Louis	1793	Romanticism	   
<input type="checkbox"/>	 <i>Portrait of Eleanor of Toledo</i>	Bronzino, Agnolo	1545	Mannerism	   
<input type="checkbox"/>	 <i>Liberty Leading the People</i>	Delacroix, Eugene	1830	Romanticism	   
<input type="checkbox"/>	 <i>Arrangement in Grey and Black</i>	Whistler, James Abbott	1871	Realism	   
<input type="checkbox"/>	 <i>Mademoiselle Caroline Riviere</i>	Ingres, Jean-Auguste	1806	Neo-Classicism	   

Shopping cart:

SHOPPING CART				
Product		#	Price	Amount
	Girl with a Pearl Earring	3	\$80.00	\$240.00
	Artist Holding a Thistle	1	\$125.00	\$125.00
	Portrait of Eleanor of Toledo	2	\$75.00	\$150.00
Subtotal				\$515.00
Tax				\$51.50
Shipping				\$40.00
Grand Total				\$606.50

Edit Art work:

Edit Art Work Details

Title

Description

Genre

Choose genre ▾

Subject

Choose subject ▾

Medium

Year

Museum

Type

☒ Painting

☐ Sculpture

Image Creative Commons Specification

☐ Attribution

☐ Noncommercial

☐ No Derivative Works

☐ Share Alike

Submit

Clear Form

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Registration:

See textbook Chapter 15, page 732.

Genres:

See textbook Chapter 17, page 812.