



Module

Development of Web Applications

(Entwicklung von Web-Anwendungen)

Summer Semester 2021

Module „Development of Web Applications“ (Entwicklung von Web-Anwendungen)

Mandatory (Pflichtmodul), 4. Semester:

033 526 Wirtschaftsinformatik

Elective (Wahlmodul):

033 532 Medieninformatik und Visual Computing

033 534 Software & Information Engineering

Module „Development of Web Applications“ (Entwicklung von Web-Anwendungen)

Courses

2.0h VU 188.951 Web Engineering

Registration Deadline 03.03. (Wednesday!), 23:55

2.0h VU 184.705 Semi-structured Data

To successfully complete the module, you have to successfully complete both courses

Project “Artmart”

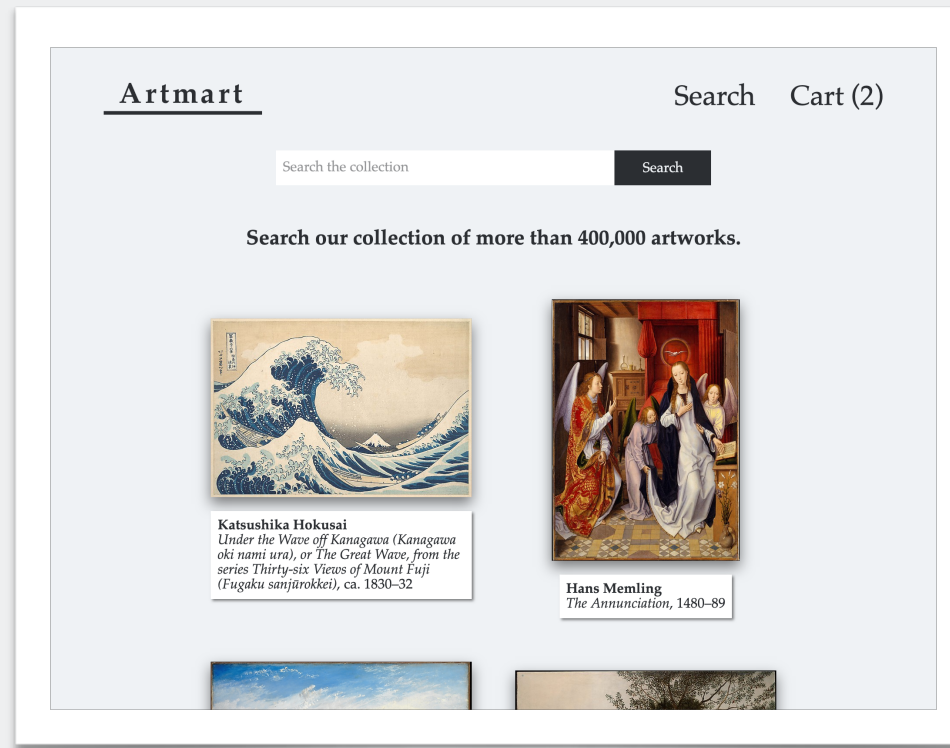
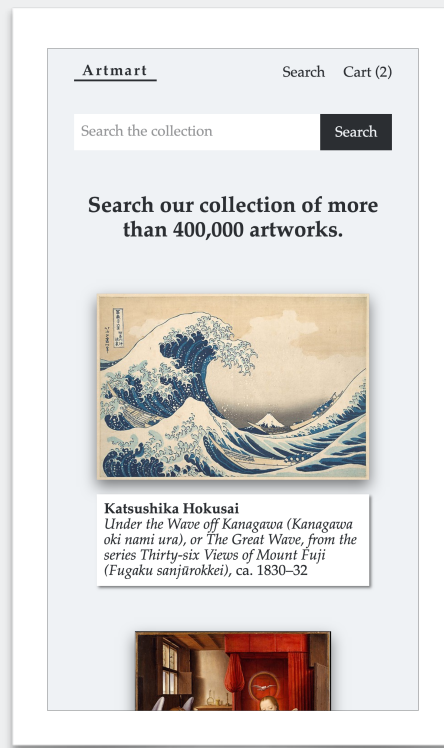
You are tasked with building the website for Artmart, a web shop for fine art prints.

The screenshot displays the Artmart website interface. At the top left, the logo "Artmart" is underlined. At the top right, there are links for "Search" and "Cart (2)". Below the logo, there is a search bar with the placeholder text "Search the collection" and a "Search" button. A message below the search bar reads "Search our collection of more than 400,000 artworks." The main content area features a grid of ten art prints, each with a title, artist name, and a brief description.

Artist	Artwork Title	Year
Katsushika Hokusai	Under the Wave off Kanagawa (Kanagawa oki nami urai), or The Great Wave, from the series Thirty-six Views of Mount Fuji (Fugaku sanjūrokkei)	ca. 1830-32
Hans Memling	The Annunciation	1480-89
Joseph Mallord William Turner	Venice, from the Porch of Madonna della Salute	ca. 1835
Pieter Bruegel the Elder	The Harlesters	1565
Vincent van Gogh	Wheat Field with Cypresses	1889
Albrecht Dürer	Melencolia I	1514
Ferdinand Hodler	The Dream of the Shepherd (Der Traum des Hirten)	1896
Hans Holbein the Younger	Erasmus of Rotterdam	ca. 1532
Paul Cézanne	Still Life with Apples and a Pot of Primroses	ca. 1890
Thomas Eakins	[Thomas Eakins and John Laurie Wallace on a Beach]	ca. 1883

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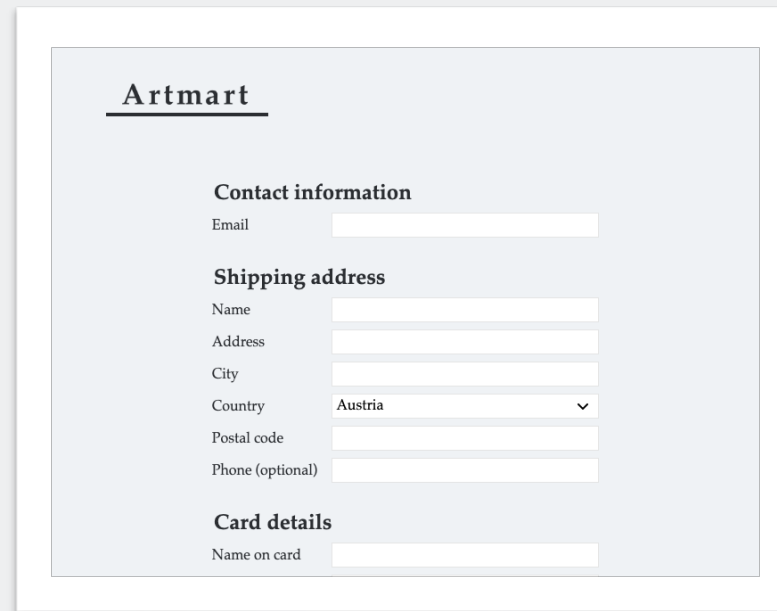
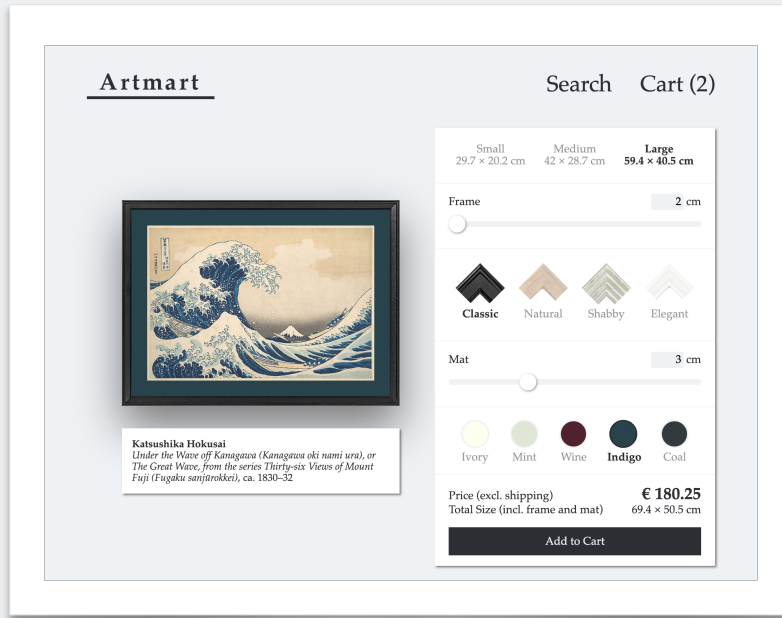
Assignment 1 (31.03):

Static HTML/CSS

- HTML5
- WAI
- CSS3
- Responsive Design

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Assignment 2 (28.04): Web Interactivity

- JavaScript/DOM
- Service Interaction (Metropolitan Museum)

Assignment 3 (19.05): Backend

- Node.js
- REST API

Assignment 4 (09.06): Frontend Abstraction

- Vue.js

The shift from **Structured Data** to **Semi-structured Data** (because Web data can hardly be structured / stored in a relational DB)

