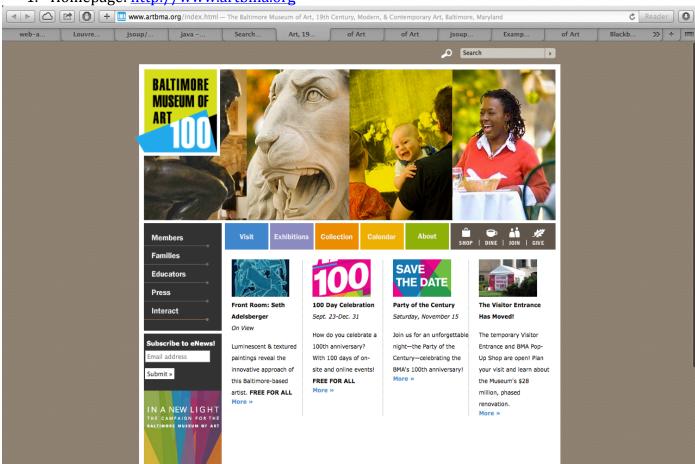
CSCI 548 Homework 1: Construct Your Scrapper

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(Dataset produced comprises of 349 artworks.)

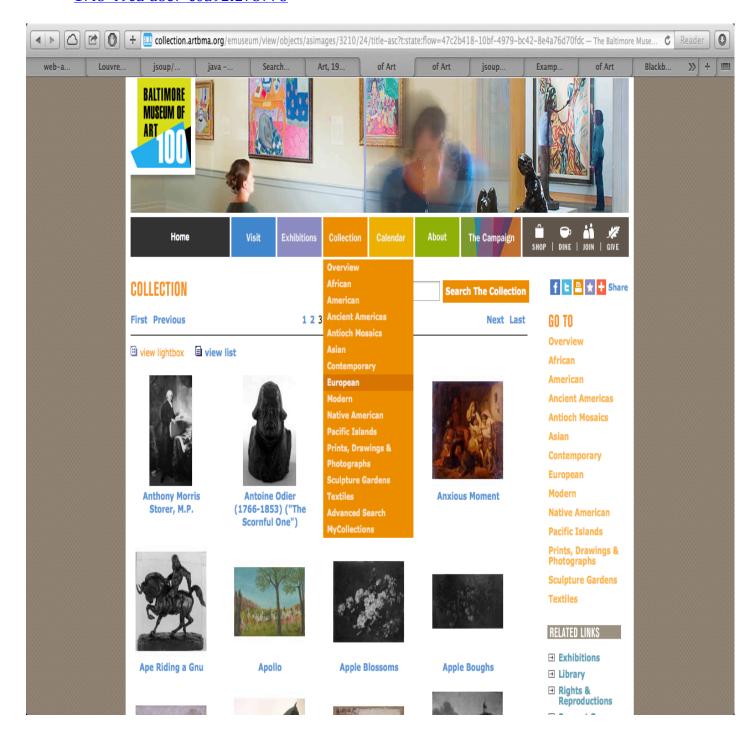
- a. "I, Priya Ankush Kotwal, declare that the submitted work is original and adheres to all University policies and acknowledge the consequences that may result from a violation of those rules"
- b. Website used: http://www.artbma.org Baltimore Museum of Art Screenshots:

1. Homepage: http://www.artbma.org



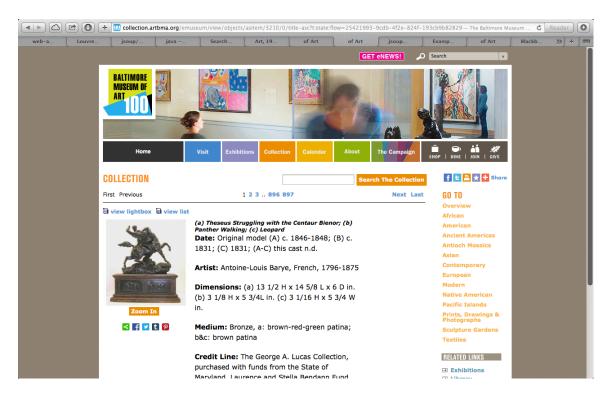
2. Collection: European: http://www.artbma.org/collection/european.html
Browse collection(List View):

http://collection.artbma.org/emuseum/view/objects/asimages/3210?t:state:flow=06edea01-17f8-49cd-a8e7-c0a92f273778



3. Detail view of the artwork:

http://collection.artbma.org/emuseum/view/objects/asitem/3210/0/title-asc?t:state:flow=9a309cee-9326-445f-8655-d1ebbd1cdf6a



c. Sample Records:

Extracted fields:

- 1. Artist
- 2. Medium
- 3. Dimensions
- 4. Date
- 5. Object Number
- 6. Credit Line
- 7. Title
- 8. Inserted the field Painting # just for reference in order to keep track of the count.

Sample records: (from artworkDataset.json)

"Credit Line: ": "The George A. Lucas Collection, purchased with funds from the State of Maryland, Laurence and Stella Bendann Fund, and contributions from individuals, foundations, and corporations throughout the Baltimore community",

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"Title": "(a) Theseus Struggling with the Centaur Bienor; (b) Panther Walking; (c) Leopard"
   },
      "Artist: ": "Thé ophile-Victor-Emile Lemmens, French, 1821-1867",
      "Medium: ": "Oil on wood panel",
      "Dimensions: ": "6-3/4 x 9-11/16 in. (17.2 x 24.6 cm.); Frame: 15-3/4 x 18-3/4 x 2-3/4 in. (40 x
47.6 x 7 cm.)",
      "Date": "1866",
      "Painting": 2,
      "Object Number: ": "1996.45.168 ",
      "Credit Line: ": "The George A. Lucas Collection, purchased with funds from the State of
Maryland, Laurence and Stella Bendann Fund, and contributions from individuals, foundations, and
corporations throughout the Baltimore community",
      "Title": "A Lesson for Wrongdoers"
   }
 ]
}
```

- d. Description of the most difficult technical challenge in the project
 - 1. Learning and using a new tool that is jsoup for the scraper and extracting the data from the website. The website contained some tags which were inconsistent for example Artist and Date tags. Some artwork contained the manufacturer tag instead of the artist tag since the artwork was a sculpture and not a painting so had to exclude that artwork. So parsing the data was a challenging task.
- e. Description listing the tool selection
 - Project Name: ArtMuseumScraper inside the HW1workspace.zip file. Extract the project and import it in your Eclipse IDE. Ison and jsoup jars included in the project. Run the artScraper.java file. I have limited the count to 349 since there are 897 paintings which would have consumed some time. Isoup is a Java library for working with real-world HTML. It provides a very convenient API for extracting and manipulating data, using the best of DOM, CSS, and jquery-like methods. I chose this tool because I am well acquainted with JAVA and have done many projects using this language. I was able to implement the scraper by adding two external jars: the jsoup jar and the json jar. The API's provided by jsoup and json are easy to implement and execute in Java, thus I chose this tool.
- f. Description listing the fields in the page that were not extracted and a justification for not extracting them
 - The website provided all the fields listed in the assignment and I extracted them complying to the requirements. I did not extract the artwork which contained the field manufacturer since that type of artwork was not a painting and not required in the assignment.