

Assignment 4 Test Report

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Purpose

The purpose of Assignment 4 is to create a Java program that acts as a media rental system. The program displays a menu and based on the user's selection, it will load media objects from files, find a specific media object, rent a specific media object, or exit the program. If the user does not exit the program, the menu will loop and the user will be prompted to enter another menu option.

There will be test cases to test the functions outlined below:

1. Ensure the ordering program displays the welcome message, menu, and a prompt for the user to select a menu option and reprints the menu options if the user does not select a valid option.
2. Ensure the program exits when entering the menu option 4.
3. If the user selects menu option 1 and enters an invalid directory, ensure the program displays an error message and returns to the menu.
4. If the user selects menu option 1 and enters a valid directory, ensure the program displays a confirmation that the items were loaded, lists the Media, and then returns to the menu.
5. If the user selects menu option 3 before a directory is loaded, print an error message and return to the menu.
6. If the user loads media objects, selects menu option 3, and then enters an ID that isn't available, print an error message and return to the menu.
7. If the user loads media objects, selects menu option 3, and then enters a valid ID that is not already rented, print a confirmation message, display the total cost, and return to the menu.

8. If the user loads media objects, selects menu option 3, and then enters a valid ID that is already rented, print a message and return to the menu.
9. If the user loads media objects, selects menu option 2, and then enters a media title that does not exit, print a message and return to the menu.

Below you will see the Test Suite.

Assignment 4 Test Report

Test Case	Input	Expected Output	Actual Output	Result
1	menuOption = 5	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 5 *Please enter a valid menu option (Numbers 1-4)* 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4):	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 5 *Please enter a valid menu option (Numbers 1-4)* 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4):	Pass
2	menuOption = 4	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 4 Thank you for using the Media Rental System. Goodbye! ***** *****	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 4 Thank you for using the Media Rental System. Goodbye! ***** *****	Pass
3	menuOption = 1 mediaFileLocation = 1	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 1 Please enter the location of the Media objects: 1	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 1 Please enter the location of the Media objects: 1	Pass

		<p>*No directory found. Please enter a valid directory with files containing EBook, MusicCD, or MovieDVD*</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	<p>*No directory found. Please enter a valid directory with files containing EBook, MusicCD, or MovieDVD*</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	
4	menuOption = 1 mediaFileLocation = /Users/liz/Documents	<p>Welcome to the Media Rental System</p> <p>*****</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p> <p>1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p> <p>Files loaded.</p> <pre><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook> <MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD> <MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	<p>Welcome to the Media Rental System</p> <p>*****</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p> <p>1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p> <p>Files loaded.</p> <pre><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook> <MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD> <MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	Pass

	menuOption = 3 mediaID = 1	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 3 Please enter the ID of the media you would like to rent: 1 *No directory loaded. Please load a directory before renting a Media object.* 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4):	Welcome to the Media Rental System ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 3 Please enter the ID of the media you would like to rent: 1 *No directory loaded. Please load a directory before renting a Media object.* 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4):	Pass
6	menuOption = 1 mediaFileLocation = /Users/liz/Documents menuOption = 3 mediaID = 1	Welcome to the Media Rental System ***** ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 1 Please enter the location of the Media objects: /Users/liz/Documents Files loaded. <MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>	Welcome to the Media Rental System ***** ***** 1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program Please enter your menu choice (1-4): 1 Please enter the location of the Media objects: /Users/liz/Documents Files loaded. <MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>	Pass

		<p><MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD></p> <p><MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 3</p> <p>Please enter the ID of the media you would like to rent: 1 ID not found.</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	<p><MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD></p> <p><MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 3</p> <p>Please enter the ID of the media you would like to rent: 1 ID not found.</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	
7	menuOption = 1 mediaFileLocation = /Users/liz/Documents menuOption = 3 mediaID = 1234	<p>Welcome to the Media Rental System</p> <p>*****</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p> <p>Files loaded.</p> <p><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD></p>	<p>Welcome to the Media Rental System</p> <p>*****</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p> <p>Files loaded.</p> <p><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD></p>	Pass

	<p><EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook></p> <p><MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD></p> <p><MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 3</p> <p>Please enter the ID of the media you would like to rent: 1234</p> <p>ID: 1234 has been rented.</p> <p>Amount Due:\$ 0.58</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	<p><EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook></p> <p><MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD></p> <p><MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 3</p> <p>Please enter the ID of the media you would like to rent: 1234</p> <p>ID: 1234 has been rented.</p> <p>Amount Due:\$ 0.58</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	
8	<p>menuOption = 1 mediaFileLocation = /Users/liz/Documents menuOption = 3 mediaID = 1111</p> <p>Welcome to the Media Rental System</p> <p>*****</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p>	<p>Welcome to the Media Rental System</p> <p>*****</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p>	Pass

		<p>Files loaded.</p> <pre><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook> <MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD> <MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 3</p> <p>Please enter the ID of the media you would like to rent: 1111</p> <p>ID: 1111 is already rented out.</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	<p>Files loaded.</p> <pre><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook> <MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD> <MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 3</p> <p>Please enter the ID of the media you would like to rent: 1111</p> <p>ID: 1111 is already rented out.</p> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4):</p>	
9	menuOption = 1 mediaFileLocation = /Users/li z/Docu ments menuOp tion = 2	<p>Welcome to the Media Rental System</p> <pre>***** *****</pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p>	<p>Welcome to the Media Rental System</p> <pre>***** *****</pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p>	Pass

	mediaTitle = a dvd	<p>Please enter your menu choice (1-4): 1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p> <p>Files loaded.</p> <pre><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>false</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook> <MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD> <MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 2</p> <p>Please enter the title of the media you would like to find: a dvd</p> <p>No titles found.</p> <pre>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</pre> <p>Please enter your menu choice (1-4):</p>	<p>Please enter your menu choice (1-4): 1</p> <p>Please enter the location of the Media objects: /Users/liz/Documents</p> <p>Files loaded.</p> <pre><MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>false</availableforrent></MusicCD> <EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook> <MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD> <MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD></pre> <p>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</p> <p>Please enter your menu choice (1-4): 2</p> <p>Please enter the title of the media you would like to find: a dvd</p> <p>No titles found.</p> <pre>1. Load Media Objects 2. Find Media Object 3. Rent Media Object 4. Exit Program</pre> <p>Please enter your menu choice (1-4):</p>	
10	menuOption = 1 mediaFileLocation = *****	Welcome to the Media Rental System *****	Welcome to the Media Rental System *****	Pass

	<ul style="list-style-type: none">2. Find Media Object3. Rent Media Object4. Exit Program <p>Please enter your menu choice (1-4):</p>	<ul style="list-style-type: none">2. Find Media Object3. Rent Media Object4. Exit Program <p>Please enter your menu choice (1-4):</p>	
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Test Case 1 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
5

*Please enter a valid menu option (Numbers 1-4)*

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Test Case 2 Screen Capture:

```
terminated> ./MediaRentalSystem ./src/main/resources/objets.xml ./src/main/resources/org/computer
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
4

|   Thank you for using the Media Rental System. Goodbye!
*****
```

Test Case 3 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
1

Please enter the location of the Media objects:
1

*No directory found. Please enter a valid directory with files containing EBook, MusicCD, or MovieDVD*
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Test Case 4 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
1

Please enter the location of the Media objects:
/Users/liz/Documents

Files loaded.

<MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD>
<EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>
<MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD>
<MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD>

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Test Case 5 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
3

Please enter the ID of the media you would like to rent:
1

*No directory loaded. Please load a directory before renting a Media object.*
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
|
```

Test Case 6 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
1

Please enter the location of the Media objects:
/Users/liz/Documents

Files loaded.

<MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD>
<EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>
<MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD>
<MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD>

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
3

Please enter the ID of the media you would like to rent:
1
ID not found.

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Test Case 7 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
1

Please enter the location of the Media objects:
/Users/liz/Documents

Files loaded.

<MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD>
<EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>
<MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinmegabytes>700.0</sizeinmegabytes><availableforrent>false</availableforrent></MovieDVD>
<MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD>

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
3

Please enter the ID of the media you would like to rent:
1234
ID: 1234 has been rented.

Amount Due:$ 0.58

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Test Case 8 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
1

Please enter the location of the Media objects:
/Users/liz/Documents

Files loaded.

<MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>true</availableforrent></MusicCD>
<EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>
<MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinemegabytes>700.0</sizeinemegabytes><availableforrent>false</availableforrent></MovieDVD>
<MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD>

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
3

Please enter the ID of the media you would like to rent:
1111

ID: 1111 is already rented out.

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Test Case 9 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
1

Please enter the location of the Media objects:
/Users/liz/Documents

Files loaded.

<MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>false</availableforrent></MusicCD>
<EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>
<MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinemegabytes>700.0</sizeinemegabytes><availableforrent>false</availableforrent></MovieDVD>
<MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD>

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
2

Please enter the title of the media you would like to find:
a dvd

No titles found.

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Test Case 10 Screen Capture:

```
Welcome to the Media Rental System
*****
1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
1

Please enter the location of the Media objects:
/Users/liz/Documents

Files loaded.

<MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>false</availableforrent></MusicCD>
<EBook><id>1000</id><title>The Count of Monte Cristo</title><yearpublished>1844</yearpublished><numberofchapters>117</numberofchapters><availableforrent>true</availableforrent></EBook>
<MovieDVD><id>1111</id><title>The Prestige</title><yearpublished>2006</yearpublished><sizeinemegabytes>700.0</sizeinemegabytes><availableforrent>false</availableforrent></MovieDVD>
<MusicCD><id>4321</id><title>The Hurting</title><yearpublished>1983</yearpublished><lengthinminutes>42</lengthinminutes><availableforrent>true</availableforrent></MusicCD>

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
2

Please enter the title of the media you would like to find:
Sounds of Silence

<MusicCD><id>1234</id><title>Sounds of Silence</title><yearpublished>1966</yearpublished><lengthinminutes>29</lengthinminutes><availableforrent>false</availableforrent></MusicCD>

1. Load Media Objects
2. Find Media Object
3. Rent Media Object
4. Exit Program

Please enter your menu choice (1-4):
```

Results

This program displays all of the prompts and outputs successfully. It performs as expected and is a successful way to implement the lessons learned throughout CMIS 242 since it covers exceptions, encapsulation, get/set methods, inheritance, and polymorphism.