

**GOMC Capstone**

**Test Case Specification**

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Version 1.0

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# **Prepared by:** Caleb Latimer

# Ahmed Taher

Muamer Besic

**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version**  **#** | **Implemented**  **By** | **Revision**  **Date** | **Reason** |
| 0.1 | Caleb L | 11/1/17 | Initial Setup of file and configuring of cover page, revision history and table of contents |
| 0.2 | Ahmed T | 11/1/17 | Created test cases for empty, valid and invalid config input page |
| 0.3 | Muamer B | 11/3/17 | Edited test case doc format, created test cases for login system |
| 0.4 | Muamer B | 11/4/17 | Created test cases for downloads page |
| 0.5 | Ahmed T | 11/5/17 | Created more test cases |
| 0.6 | Caleb L | 11/6/17 | Added more test cases |
| 0.7 | Muamer B | 11/6/17 | Edited admin login sequence diagram |
| 0.8 | Ahmed T, Caleb L, Muamer B | 11/6/17 | Reviewed and proofread |
| 0.9 | Caleb L | 11/16/17 | Reworked Test Cases |
| 1.0 | Muamer B | 12/3/17 | Fixed login system, downloads page, table of contents & resized tables |

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# 

# **1. Functional Test Cases**

# **1.1 Config Form**

|  |  |
| --- | --- |
| Test Case Name | Config Form – Correct Fields |
| Test Case ID | TC-1 |
| Priority | High |
| Preconditions | XML Config Form page is loaded in the user’s web browser  XML config form is fully filled out in accordance to FSR-01 |
| Postconditions | Status OK response with Content-Type set to "application/octet-stream" and Content-Disposition set to attachment with the XML file named "input.xml" |
| Test Steps | 1. Fields of config form are filled out as specified by the config file FSR-01 2. The "Create XML" button is clicked |
| Expected Results | Client receives a download of the xml file FSR-02 |

|  |  |
| --- | --- |
| Test Case Name | Config Form – Empty Fields |
| Test Case ID | TC-2 |
| Priority | High |
| Preconditions | Config form page is loaded |
| Postconditions | All the fields input tags will have the class "has-error" added to them |
| Test Steps | 1. The text and number input fields will be empty 2. The radio fields will not be clicked on and have each option of said radio field be not selected 3. The "Create XML" button is clicked |
| Expected Results | All the input fields will be seen as having a red box around them with an error message indicating that field should not be empty. Similar to the image below:  Inserting image... |

|  |  |
| --- | --- |
| Test Case Name | Config Form – Incorrect Field |
| Test Case ID | TC-3 |
| Priority | High |
| Preconditions | Config form page is loaded |
| Postconditions | The input field named RandomSeed will have the class ".has-error" added to it |
| Test Steps | 1. Same as TC-1 step 1 2. Change the field name Prng to "IntSeed" 3. The "Create XML" button is clicked |
| Expected Results | Same as TC-2 but only for the field named RandomSeed and the error message saying "Random seed must be set if Prng is set to IntSeed" |

**1.2 Login System**

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| --- | --- |
| Test Case Name | Login System – Check for fields |
| Test Case ID | TC-4 |
| Priority | Low |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | N/A |
| Test Steps | Admin is now on the login page of the GOMC website and now can view the login page to locate input fields |
| Expected Results | The admin login page contains the following text fields:   1. Login 2. Password |

|  |  |
| --- | --- |
| Test Case Name | Login System – Check for login button |
| Test Case ID | TC-5 |
| Priority | Low |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | N/A |
| Test Steps | Admin is now on the login page of the GOMC website and now can view the login page to locate login button |
| Expected Results | The login page contains the "Login" button on the admin login page |

|  |  |
| --- | --- |
| Test Case Name | Login System – Check for empty field validation |
| Test Case ID | TC-6 |
| Priority | Medium |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | Both of the input tags (email, password) will have the class "has-error" added to them |
| Test Steps | Admin clicks "Login" button without inputting information into the "Login" and "Password" input fields |
| Expected Results | Stays on the admin login page with error message shown "You have 2 errors." and an error message shows up saying "This is a required field" under the "Login" and "Password" input fields on the admin login page |

|  |  |
| --- | --- |
| Test Case Name | Login System – Valid email & password |
| Test Case ID | TC-7 |
| Priority | Medium |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | GOMC admin login page has communicated with backend and database to make sure inputted email/password exist in the database and that the entered password is of the email entered |
| Test Steps | 1. Enter GOMC admin email into the "Login" input field 2. Enter GOMC admin password into the "Password" input field 3. Click on the "Login" button that is below the "Password" input field |
| Expected Results | Admin will be able to view the admin page and access all admin functionalities |

|  |  |
| --- | --- |
| Test Case Name | Login System – Entering email only |
| Test Case ID | TC-8 |
| Priority | Medium |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | The email input field tag will have the class "has-error" added to them |
| Test Steps | 1. Admin enters their GOMC admin login email into the "Login" input field 2. Admin leaves the "Password" input field empty 3. Admin presses the "Login" button |
| Expected Results | Stays on the admin login page with error message shown "You have 1 error.", error message shown "Please enter your password" under the "Password" input field, and the "Password" input field highlighted in red |

|  |  |
| --- | --- |
| Test Case Name | Login System – Enter password only |
| Test Case ID | TC-9 |
| Priority | Medium |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | The password input field tag will have the class "has-error" added to them |
| Test Steps | 1. Admin enters their GOMC admin login password into the "Password" input field 2. Admin leaves the "Login" input field empty 3. Admin presses the "Login" button |
| Expected Results | Stays on the admin login page with error message shown "You have 1 error.", error message shown "Please enter your email" under the "Email" input field, and the "Email" input field highlighted in red |

|  |  |
| --- | --- |
| Test Case Name | Login System – Invalid email |
| Test Case ID | TC-10 |
| Priority | Medium |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | The email input field tag will have the class "has-error" added to them |
| Test Steps | 1. Admin enters invalid GOMC admin email (valid email format) in the "Login" input field 2. Admin enters valid GOMC admin account password in the "Password" input field 3. Admin presses the "Login" button |
| Expected Results | The admin login page will contain empty fields (email, password) |

|  |  |
| --- | --- |
| Test Case Name | Login System – Invalid password |
| Test Case ID | TC-11 |
| Priority | Medium |
| Preconditions | An admin is on the GOMC website and has entered /home/admin in the URL of the web browser to be redirected to the admin login page |
| Postconditions | The password input field tag will have the class "has-error" added to them |
| Test Steps | 1. Admin clicks on the "Password" input field 2. Admin types out an invalid password (at least 7 characters letters and/or numbers that are not in the same order as the actual admin password) in the "Password" input field 3. Admin clicks on the "Login" input field and types out their valid admin email of the GOMC website 4. Admin presses the "Login" button |
| Expected Results | The admin login page will contain empty fields (email, password) |

**1.3 Downloads Page**

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| --- | --- |
| Test Case Name | Downloads Page – GitHub link |
| Test Case ID | TC-12 |
| Priority | Medium |
| Preconditions | User is on the GOMC website downloads page |
| Postconditions | The URL included when "Click Here" is clicked will redirect user to the GOMC GitHub repository |
| Test Steps | 1. At the beginning of the downloads page on the left side, user will see "Keep up with us on GitHub: Click here" 2. User is able to click on "Click here" which will take the user to the GOMC GitHub repository: (https://github.com/GOMC-WSU/GOMC) |
| Expected Results | Redirect is successful and user is taken to the GOMC GitHub repository |

|  |  |
| --- | --- |
| Test Case Name | Downloads Page – Most Recent Version links |
| Test Case ID | TC-13 |
| Priority | Medium |
| Preconditions | User is on the GOMC website downloads page |
| Postconditions | An http get response is received that has an attachment |
| Test Steps | 1. User scrolls down (if needed) to the section that contains the most recent versions that are either Linux or Windows (separate panels) 2. User is able to go through the list and make a choice of which version they choose to download by clicking "Download" that is located after each version |
| Expected Results | Link works properly by giving the user the option to download their selected version |

|  |  |
| --- | --- |
| Test Case Name | Download Page – Older versions |
| Test Case ID | TC-14 |
| Priority | Medium |
| Preconditions | User is on the GOMC website downloads page |
| Postconditions | When older versions is clicked:   1. Website checks JSON file for listed versions 2. The information is received and shown |
| Test Steps | 1. User scrolls down (if needed) to the section that contains the most recent versions that are either Linux or Windows (separate panels) 2. User clicks on "Click here for older versions" in either the Linux or the Windows most recent versions panel |
| Expected Results | Redirect is successful and the user is taken to /moredownloads showing older versions of either Linux or Windows |

|  |  |
| --- | --- |
| Test Case Name | Downloads Page – Examples Set |
| Test Case ID | TC-15 |
| Priority | Medium |
| Preconditions | User is on the GOMC website downloads page |
| Postconditions | An http get response is received that has an attachment |
| Test Steps | 1. User scrolls down (if needed) to the section that contains the examples set with most recent version 2. User clicks on "Example" depending on their choice from the examples set list |
| Expected Results | User is able to click on "Example" and be able to download the file that comes with it |

|  |  |
| --- | --- |
| Test Case Name | Download Page – Older examples |
| Test Case ID | TC-16 |
| Priority | Medium |
| Preconditions | User is on the GOMC website downloads page |
| Postconditions | When older versions is clicked:   1. Website checks JSON file for listed versions 2. The information is received and shown |
| Test Steps | 1. User scrolls down (if needed) to the section that contains the examples set with most recent version 2. User will see a list under the header with example names on left and download files ("Example") on right 3. Under the list, the user will see "Click here for older examples" 4. When user clicks on "Click here for older examples", the user will be redirected to /moreexamples |
| Expected Results | Redirect is successful and the user is taken to the /moreexamples page |

**1.4 Registration Form**

|  |  |
| --- | --- |
| Test Case Name | Registration Form- Normal Behavior |
| Test Case ID | TC-17 |
| Priority | Low |
| Preconditions | User had loaded the GOMC Website Downloads page |
| Postconditions | 1. User has registered their name, email, affiliation and comments 2. User is verified as a non-bot 3. The registration form is now minimized and disabled |
| Test Steps | 1. Click to enter the name field 2. Enter a string consisting of the first and last name 3. Click or tab into the email field 4. Enter a string consisting of an email 5. Click or tab into the next field 6. Enter a string consisting of an affiliation being a company or school 7. Click or tab into the last field 8. Enter some text as a comment 9. Click the captcha 10. Click the Register button |
| Expected Results | Form closes, the orange button at the top becomes green and reads "Thanks for registering!" With a checkmark to the left.  The button is now disabled, hovering over it reveals a stop sign and clicking it doesn't do anything |

|  |  |
| --- | --- |
| Test Case Name | Registration Form – Check for fields/Form |
| Test Case ID | TC-18 |
| Priority | Low |
| Preconditions | User is on the GOMC website downloads page |
| Postconditions | N/A |
| Test Steps | 1. User will scroll down until the full registration form is in view 2. User is able to view the registration form |
| Expected Results | The registration form will have the four different input fields:   1. Name 2. Email 3. Affiliation 4. Please tell us why you are interested in GOMC |

|  |  |
| --- | --- |
| Test Case Name | Registration Form- Invalid Name |
| Test Case ID | TC-19 |
| Priority | Low |
| Precondition | 1. User is on the downloads page of the GOMC website 2. User has filled out the form 3. User is verified as a non-bot |
| Postconditions | An error is displayed stating that the name is an invalid format and asks the user to remove all numbers or special characters |
| Test Steps | 1. Fill out the form as described in the test steps of TC-19 2. Modify the name field to have any combination of numbers or special characters into the text 3. Click the Register button |
| Expected Results | Form is not submitted, the error message is shown |

|  |  |
| --- | --- |
| Test Case Name | Registration Form- Invalid Email |
| Test Case ID | TC-20 |
| Priority | Low |
| Precondition | 1. User is on the downloads page of the GOMC website 2. User has filled out the form 3. User is verified as a non-bot |
| Postconditions | An error is displayed stating that the email is an invalid format and asks the user to input an @ into the string |
| Test Steps | 1. Fill out the form as described in the test steps of TC-19 2. Modify the email field to not include the @ character 3. Click the Register button |
| Expected Results | Form is not submitted, the error message is shown |

|  |  |
| --- | --- |
| Test Case Name | Registration Form- Missing field |
| Test Case ID | TC-21 |
| Priority | Low |
| Precondition | 1. User is on the downloads page of the GOMC website 2. User has filled out the form 3. User is verified as a non-bot |
| Postconditions | An error is displayed stating that the field is required and asks the user to enter data |
| Test Steps | 1. Fill out the form as described in the test steps of TC-19   2. Modify the any field to not include any data  3. Click the Register button |
| Expected Results | Form is not submitted, the error message is shown |

|  |  |
| --- | --- |
| Test Case Name | Registration Form- Missing Captcha |
| Test Case ID | TC-22 |
| Priority | Low |
| Precondition | 1. User is on the downloads page of the GOMC website 2. User has filled out the form |
| Postconditions | The Register button is disabled |
| Test Steps | 1. Fill out the form as described in the test steps of TC-19   2. Do not click the captcha button  3. Click the Register button |
| Expected Results | Form is not submitted, click is not handled as the button is disabled until the user clicks the captcha |

|  |  |
| --- | --- |
| Test Case Name | Registration Form- Captcha expiration |
| Test Case ID | TC-23 |
| Priority | Low |
| Precondition | 1. User is on the downloads page of the GOMC website 2. User has filled out the form 3. User is verified as a non-bot |
| Postconditions | An error is displayed stating that the captcha is expired and that the user needs to click it again |
| Test Steps | 1. Fill out the form as described in the test steps of TC-19   2. Click the captcha  3. Wait for two minutes |
| Expected Results | Error response is shown, Register button is disabled |

**1.5 Admin Page**

|  |  |
| --- | --- |
| Test Case Name | Admin Page - Access |
| Test Case ID | TC-24 |
| Priority | High |
| Precondition | 1. User has navigated to the admin page 2. User is currently logged in |
| Postconditions | User is able to view and interact with admin page |
| Test Steps | Complete the login steps from TC-8 & 9 |
| Expected Results | User is redirected to the admin page |

|  |  |
| --- | --- |
| Test Case Name | Admin Page - Redirect on no access |
| Test Case ID | TC-25 |
| Priority | High |
| Precondition | 1. User has navigated to the admin page 2. User is not logged in |
| Postconditions | User is redirected to the login page with a prompt asking them to log in |
| Test Steps | Navigate to the /home/admin page directly by appending the path to your browser URL |
| Expected Results | Page is redirected to the login page and provides the user with a prompt asking them to login to proceed. |

|  |  |
| --- | --- |
| Test Case Name | Admin Page - Post announcement |
| Test Case ID | TC-26 |
| Priority | High |
| Precondition | 1. User has navigated to the admin page 2. User is logged in |
| Postconditions | A new announcement is prepended to the announcements page |
| Test Steps | 1. Click the text-area under the "New Announcements" header 2. Enter some text 3. Click the Post button |
| Expected Results | The text area is cleared and a link appears asking the user if they would like to review their newest edit  Link disappears on page refresh |

|  |  |
| --- | --- |
| Test Case Name | Admin Page - Clear Announcement |
| Test Case ID | TC-27 |
| Priority | High |
| Precondition | 1. User has navigated to the admin page 2. User is logged in 3. Text has been entered in the Announcements text box |
| Postconditions | The text area is cleared |
| Test Steps | 1. Click the text-area under the New Announcements header 2. Enter some text 3. Click the Clear button |
| Expected Results | The text area is cleared |

|  |  |
| --- | --- |
| Test Case Name | Admin Page - Announcement Link |
| Test Case ID | TC-28 |
| Priority | High |
| Precondition | 1. User has navigated to the admin page 2. User is logged in 3. A new announcement has been posted |
| Postconditions | User is taken back to the landing page |
| Test Steps | 1. Click the link above the now blank text area 2. User is redirected to the landing page 3. Verify that the new announcement is at the top of the list |
| Expected Results | Redirect is successful and the user is taken back to the landing page |

**1.6 XML Parser**

|  |  |
| --- | --- |
| Test Case Name | GOMC App Input – Invalid |
| Test Case ID | TC-29 |
| Priority | High |
| Preconditions | 1. The GOMC app is installed 2. A file is created at "C:/temp/invalid.xml" with the contents set to "hell0 world" |
| Postconditions | The app will output a log file named "output.txt" which will have the last line indicating the XML input file 'invalid.xml' is invalid. |
| Test Steps | 1. The GOMC app is executed 2. The file path of the file from preconditions step 2 is passed into the console |
| Expected Results | The console will display a message saying the xml input file 'invalid.xml' is invalid |

|  |  |
| --- | --- |
| Test Case Name | GOMC App Input - Valid |
| Test Case ID | TC-30 |
| Priority | High |
| Preconditions | 1. The GOMC app is installed 2. The file FSR-06 is saved to the location "C:/temp/tc\_33/fsr\_06.xml" 3. The files FSR-07, FSR-08, FSR-09, FSR-10 are saved to the directory "C:/temp/tc\_33/" |
| Postconditions | The directory "C:/temp/tc\_33/output" will have files exactly matching (content and name) the following directory <https://github.com/ataher1992/GOMC_Examples/tree/master/GCMC/hexane/run2a_bridge/output_example> |
| Test Steps | 1. The GOMC app is executed 2. The following command is inputted to the console "C:/temp/tc\_33/fsr\_06.xml" |
| Expected Results | The console will display a message saying the simulation completed successfully. |

# **2.Integration Testing**

**2.1 Latex**

|  |  |
| --- | --- |
| Test Case Name | Latex Upload – No File |
| Test Case ID | TC-31 |
| Priority | High |
| Preconditions | 1. The admin user is authenticated 2. The admin page is loaded |
| Postconditions | The latex upload div group "#latex\_upload" will have the class ".has-error" added to it. |
| Test Steps | 1. The "Find Latex File" button is clicked 2. The "Cancel" button is clicked on the dialog which is displayed after step 1. 3. The "Upload Latex" button is clicked |
| Expected Results | Similar to TC-1 with the message saying the latex file is empty. |

|  |  |
| --- | --- |
| Test Case Name | Latex Upload – Text File |
| Test Case ID | TC-32 |
| Priority | High |
| Preconditions | 1. The admin user is authenticated 2. The admin page is loaded 3. A text file with the content "hell0 world" is saved in the file-system at "C:/temp/latex.txt" |
| Postconditions | Same as TC-34 |
| Test Steps | 1. The "Find Latex File" button is clicked 2. The filename from TC-35 precondition step 3 is entered in the dialog that is displayed after step 1 3. The "Select File" button is clicked in the dialog that is displayed after step 1 4. The "Upload Latex" button is clicked |
| Expected Results | Similar to TC-34 with the message saying the input file is not a valid latex file |

|  |  |
| --- | --- |
| Test Case Name | Latex Upload – Valid |
| Test Case ID | TC-33 |
| Priority | High |
| Preconditions | 1. The file FSR-03 is saved in the file-system at "C:/temp/Manual.tex" 2. The admin user is authenticated 3. The admin page is loaded |
| Postconditions | The LatexUploads table in the database will have a new entry which will have the column HtmlZip be equal to the byte array of the zip file FSR-04 and the column Pdf be equal to the byte array of the pdf file FSR-05. |
| Test Steps | 1. The "Find Latex File" button is clicked 2. The filename from TC-36 precondition step 1 is entered in the dialog that is displayed after step 1 3. The "Select File" button is clicked in the dialog that is displayed after step 1 4. The "Upload Latex" button is clicked |
| Expected Results | A dialog pop-up will be displayed, stating "The latex upload operation has succeeded" |

# **3. System Testing**

**3.1 Web-hooks**

|  |  |
| --- | --- |
| Test Case Name | GitHub Web-hooks Push |
| Test Case ID | TC-34 |
| Priority | High |
| Preconditions | 1. The git repo at <https://github.com/ataher1992/gomc_manual> is cloned to the directory "C:/temp/GOMC\_Manual" 2. The website at <http://ahtaher.net> is running 3. The git repo from step 1 is configured to have web-hooks for the push event enabled with the callback URL set to <http://ahtaher.net/api/github/callback> 4. The page at <http://ahtaher.net/home/documenation> will have the first section be named "Tutorial Overview" |
| Postconditions | The LatexUploads table in the database will have a new entry which will have the column HtmlZip be equal to the byte array of the zip file FSR-04 and the column Pdf be equal to the byte array of the pdf file FSR-05. |
| Test Steps | 1. Open the file named "Manual.tex" at the directory specified in preconditions step 1. 2. With the file from step 1, edit line# 63 to "\section{Tutorial Overview -Test}" and save. 3. Open command line to the same directory as step 1 4. Stage the change by typing "git add ." 5. Commit the change by typing "git commit -m 'test case' " 6. Push the change by typing "git push origin master" 7. Open the same page from preconditions step 4, |
| Expected Results | The page from preconditions step 4 will have the first section be named "Tutorial Overview – Test" |

|  |  |
| --- | --- |
| Test Case Name | GitHub Web-hooks Push - Invalid Latex |
| Test Case ID | TC-35 |
| Priority | High |
| Preconditions | 1. The git repo at <https://github.com/ataher1992/gomc_manual> is cloned to the directory "C:/temp/GOMC\_Manual" 2. The website at <http://ahtaher.net> is running 3. The git repo from step 1 is configured to have web-hooks for the push event enabled with the callback URL set to <http://ahtaher.net/api/github/callback> 4. The page at <http://ahtaher.net/home/documenation> will have the first section be named "Tutorial Overview" |
| Postconditions | The LatexUploads table in the database will have the same number of entries before the test was run. |
| Test Steps | 1. Open the file named "Manual.tex" at the directory specified in preconditions step 1. 2. Replace all content with the following "hello world". 3. Open command line to the same directory as step 1 4. Stage the change by typing "git add ." 5. Commit the change by typing "git commit -m 'test case' " 6. Push the change by typing "git push origin master" 7. Open the same page from preconditions step 4, |
| Expected Results | The page from preconditions step 4 will have the first section be named "Tutorial Overview" (in other words, no change) |

**Appendix**

|  |  |  |
| --- | --- | --- |
| Reference ID | Description | Location |
| FSR-01 | **The config input JSON which is used to fill out test cases.** | <https://github.com/WSU-Capstone-2017/GOMC-Website/tree/e7eaeac9893b87d09d561da6fb36efa057a9983b/Other/gcmc_hexane_run2a_bridge.in.json> |
| FSR-02 | **The config input file used in test cases** | <https://github.com/WSU-Capstone-2017/GOMC-Website/tree/e7eaeac9893b87d09d561da6fb36efa057a9983b/Other/gcmc_hexane_run2a_bridge.in.xml> |
| FSR-03 | **The latex version of the manual** | <https://github.com/ataher1992/GOMC_Manual/blob/master/Manual.tex> |
| FSR-04 | **The zip of the html content produced after the latex convertor is run on FSR-03** | <https://github.com/ataher1992/GOMC_Manual/blob/master/Manual.zip> |
| FSR-05 | **The pdf version of the manual** | <https://github.com/ataher1992/GOMC_Manual/blob/master/Manual.pdf> |
| FSR-06 | **The config input file used in test cases** | <https://github.com/WSU-Capstone-2017/GOMC-Website/tree/e7eaeac9893b87d09d561da6fb36efa057a9983b/Other/gcmc_hexane_run2a_bridge.in.xml> |
| FSR-07 | **One of the input files required to run the GOMC app based on the config input file FSR-06** | <https://github.com/ataher1992/GOMC_Examples/tree/master/GCMC/hexane/run2a_bridge/STEP3_START_C6P_reservoir_BOX_1.pdb>/ |
| FSR-08 | **Same as FSR-07** | <https://github.com/ataher1992/GOMC_Examples/tree/master/GCMC/hexane/run2a_bridge/STEP3_START_C6P_reservoir_BOX_1.psf> |
| FSR-09 | **Same as FSR-07** | <https://github.com/ataher1992/GOMC_Examples/tree/master/GCMC/hexane/run2a_bridge/STEP3_START_C6P_vap_BOX_0.pdb> |
| FSR-10 | **Same as FSR-07** | <https://github.com/ataher1992/GOMC_Examples/tree/master/GCMC/hexane/run2a_bridge/STEP3_START_C6P_vap_BOX_0.psf> |