

Appendix C

Functional Test

Functional Test Time: 2021/3/16, 2021/3/27, 2021/4/6. The results are the same.

C.1 Part1: Sign in interface

Clicking Terms view button, whether it will prompt Terms viewing page or not.	True
Clicking Data Policy view button, whether it will prompt Data Policy viewing page.	True
Clicking About Us view button, whether it will open the team website or not.	True
Clicking “Can’t access your account?” button, whether it will jump to Verification interface.	True
Clicking “sign up now!” button, whether it will jump to sign up page or not.	True
Entering correct user information and clicking sign in button, whether it will jump to main menu.	True

Table C.1: Sign In Test Table

C.2 Part2: Sign up interface

Clicking “sign up now” button, whether sign up interface will open.	True
Entering appropriate user name, email address, password and confirm password, then clicking sign up button, whether successful registration prompt box will open.	True
Clicking “Already have an account?” button, whether it will jump back to sign in interface?	True

Table C.2: Sign Up Test Table

C.3 Part3: Verification interface

Entering appropriate user email address and clicking “send code” button, whether the verification email will be sent.	True
Entering correct Verification code, appropriate new password and confirming password after getting verification code in email, then clicking “Create new password” button, whether successful reset dialog will show up and user can use new password to login.	True
Clicking “Back to sign in” button, whether it will jump back to sign in interface.	True

Table C.3: Verification Test Table

C.4 Part4: Main menu

Double clicking head portrait in the upper right corner, whether user information interface will show up.	True
Clicking the bin sign in the frame of Uploaded data sets, whether confirmation dialog will show up.	True
Clicking “confirmation” button after confirmation dialog of user information showing up, whether the corresponding datasets will be deleted.	True
Clicking “cancel” button after confirmation dialog of user information showing up, whether it will jump back to user information interface.	True
Clicking “help” button, whether user guide, about us and about beaver option buttons will show up	True
Clicking user guide or about beaver or about us button after clicking help button, whether user guide interface or about beaver interface will show up or it will jump to about us website.	True
Selecting one data set, one model and one scenario/no stress test, then clicking model application button to model fit, whether progress bar will load successfully to show the loading progress of model fit and whether the DR chart and Loglike chart will show up clearly.	True
Model fitting successfully, whether the accurate attribute values in the statistic table will be showed.	True
Clicking “view” button, whether show toolbar, show content as tree and show chart symbols option button will show up.	True
Clicking show toolbar, show content as tree and show chart symbols option button after clicking view button, whether the toolbar/ content in tree form/ chart symbols will show up/hide.	True
Double clicking the option button (attached with specific graphs) below my models, my data sets, my scenarios, and history records in toolbar, whether interface containing DTSM Python model, specific data sets interface, scenario information interface and recent records showed in DR chart will show up.	True
Clicking with right mouse on specific model, datasets, scenario and records button, whether open, rename, delete and favour button will show up.	True

Table C.4: MainMenu Test Table1

Clicking open button after clicking specific model item with right mouse, whether it will jump to the interface containing DTSM Python model.	True
Clicking open button after clicking specific datasets item with right mouse, whether specific data sets interface will show up.	True
Clicking open button after clicking specific scenario item with right mouse, whether scenario information interface will show up.	True
Clicking open button after clicking specific history records item with right mouse, whether recent records graphs showed in DR chart will show up.	True
Clicking rename button after clicking specific tree item with right mouse, whether rename interface will show up.	True
Entering a new name of one tree item after rename interface showing up, then clicking “confirmation” button, whether the name of the corresponding item will be changed to the new name.	True
Clicking “cancel” button after the rename interface showing up, whether the rename interface will be closed with no changes.	True
Clicking delete button after clicking specific tree item with right mouse, whether the corresponding tree item will be deleted.	True
Clicking favour button after clicking specific tree item with right mouse, whether the stars next to the corresponding tree item will be filled with orange color.	True
Clicking the triangle sign in the tollbar, whether the corresponding toll bar will be hided/ show up.	True
Clicking import personal model button, whether Import model interface to select the path of Python model in PC will show up.	True
Selecting correct personal Python model file after Import model interface to select the path of Python model in PC will showing up, whether it will be added to the my models tool bar with corresponding name.	True
Clicking import personal data sets button, whether Import data sets interface will show up.	True
Clicking add condition button after import data sets interface showing up, whether a new line of condition will be added.	True
Clicking triangle sign button in Add condition frame after a new line of condition added, whether the first box will show x/c to be chosen, the second box will show relational operators to be chosen, and the third box will show AND/OR to be chosen.	True
Adding correct condition (choosing x/c, choosing operator, setting value, and choosing AND/OR), entering new name, then clicking confirmation, whether the corresponding new datasets will be generated and added to the my datasets toll bar from database with new name.	True
Adding correct condition (choosing x/c, choosing operator, setting value, and choosing AND/OR), entering new name, then clicking Preview button, whether correct corresponding SQL statement will be generated besides the button.	True
Clicking bin sign button at the right side of the Add condition frame after import data sets interface showing up, whether the corresponding condition will be deleted.	True
Clicking import scenario button, whether Import scenario interface to select the path of scenario will show up.	True
Clicking export file to database button, whether the File to database interface will show up.	True

Table C.5: MainMenu Test Table2

Clicking save DR/Loglike Chart button, whether Save as interface to select path to save the DR/Loglike Chart will show up.	True
Clicking save data as the text file button, whether Save as interface to select path to save data as the text file will show up.	True
Clicking save line chart button, whether Save the line chart interface will show up.	True
Clicking the “confirmation” button after save the line chart interface showing up, whether the corresponding DR Chart and Loglike Chart will be saved in the History Records tool bar in given name entered in save the line chart interface.	True
Clicking “cancel” button after save the line chart interface showing up, whether save the line chart interface will be closed with no changes.	True
Clicking file then clicking database button, whether File to database interface will show up.	True
Dragging the csv file to prompt box or selecting it from local path after File to database showing up, renaming it and clicking confirm button, then clicking import button. After the progress bar loaded, check the database, whether the csv file has been exported successfully to database.	True
Dragging the csv file to prompt box or selecting it from local path after File to database showing up, renaming it and clicking confirm button, then clicking Cancel button, whether the progress bar will stop loading.	True
Clicking file then clicking merge button, whether the merge result interface will show up.	True
After merge result interface showing up, selecting one Original chart from history records and renaming it in set series name box, then clicking add button, selecting comparison chart from history records (different from original chart) , finally clicking merge button, whether corresponding correct merged results will be showed in DR chart/Loglike chart below.	True
When adding the comparison chart, clicking the bin sign button, whether corresponding chart will be deleted.	True
Repeating the previous one test steps, then clicking Export DR/Loglike Chart button, then selecting the path to save the chart in local files, whether it will be saved successfully.	True
Repeating the merge result step, then checking the box of show symbols, whether the dot with detailed information (displayed when mouse moving over it) will show up and disappear when double checking the box.	True

Table C.6: MainMenu Test Table3