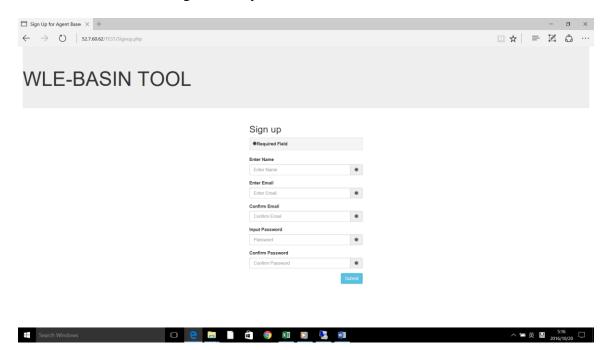
Quick Start

The web interface provides mainly 7 functions, including authentication system, starting new input case, view and manage previous input cases, start a negotiation model, start a scenario model, view results and compare results.

1 Authentication system

The authentication system consists of two parts, a sigh-up page and a sigh-in page. Figure 1 shows the interface design of the system.



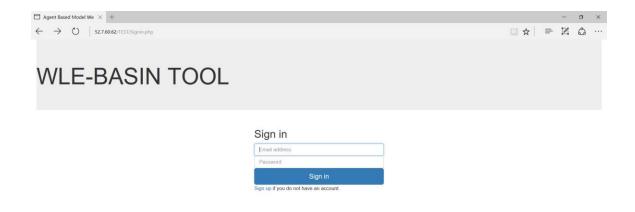




Figure 1 Interface design

2 Main Page

The main functions of this website are displayed in the main page, and the user interface of the main page is show as Figure 2.

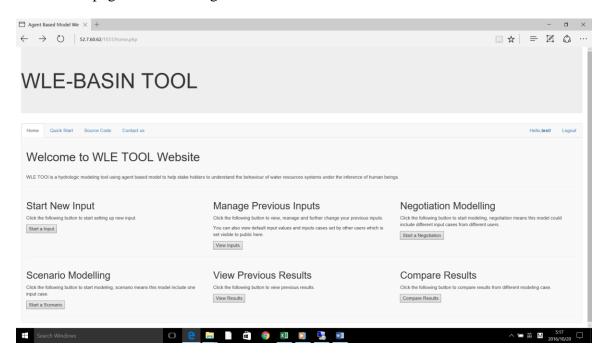
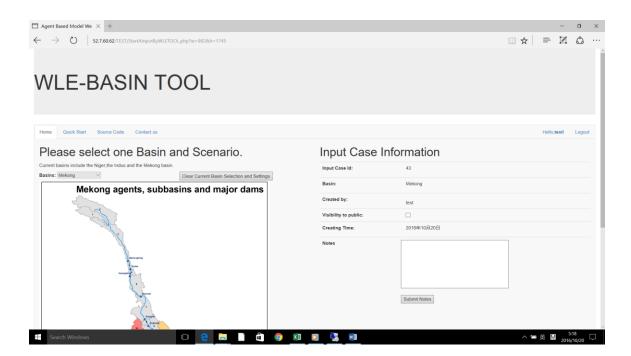


Figure 2 Main Page

3 Start Input Case

By clicking "Start a Input" button on the home page, users could start their new input case. Users can select a basin to set up a model of their choice by clicking on basin options in a drop-down menu. Then, the map for selected basin will show up, with each part of the map linked with a corresponding agent Id using <area> tag provided by HTML. Once a user clicks on the map, a new page will pop-out for the users to set values of input variables for the corresponding agent. For each of these variables, a brief description, a current value and an input field is provided. Users can use the slider bar or group of radio buttons are provided to change the value, and the range of the value is limited by the slider bar or radio choices to ensure feasible input. User can click on the confirm button to save their settings and the server will save their settings to the database. Users can also leave some notes on the right part of the page to help them identify their input case if they want to retrieve the input case in the future. The user interface design of "Starting new input case" in shown in Figure 3.



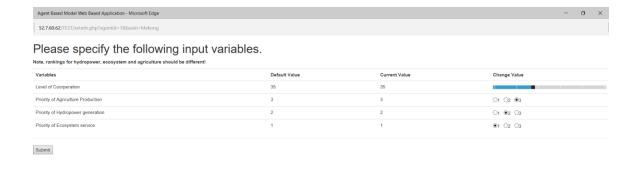




Figure 3 Start A New Input Case

Note, here we require input ranking for ecosystem, hydropower generation and crop irrigation to be different. Therefore, if this requirement not satisfied, a red warning will be given and users will be asked to specify the ranking again. Figure 4 shows this warning.

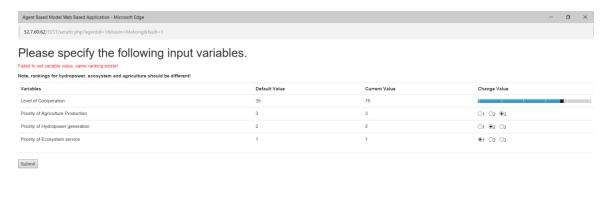
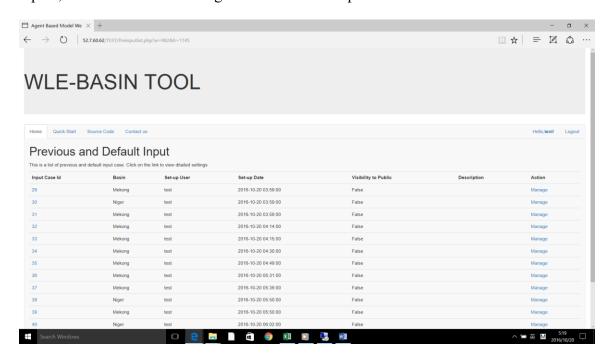




Figure 4 Invalidity Warning

4 View Inputs

By clicking "View Inputs" button on the home page, users could view their previous inputs and public inputs set up by others. Figure 5 shows the list of previous inputs. Note, users can only change their own inputs, therefore, there is only 'View' link for public inputs, while the link is 'Manage' for users' own inputs.



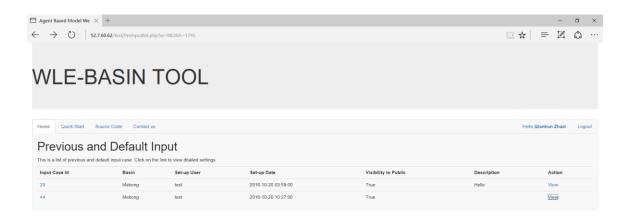
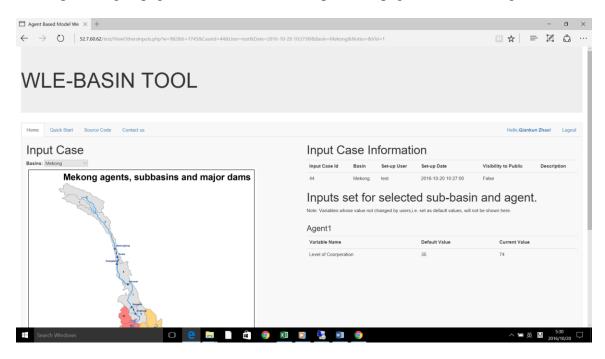




Figure 5 Lists of previous inputs

After clicking 'View' button, users can view others inputs, as shown in Figure 6. After clicking 'Manage', page will be redirected to Input Case page as shown in Figure 3.

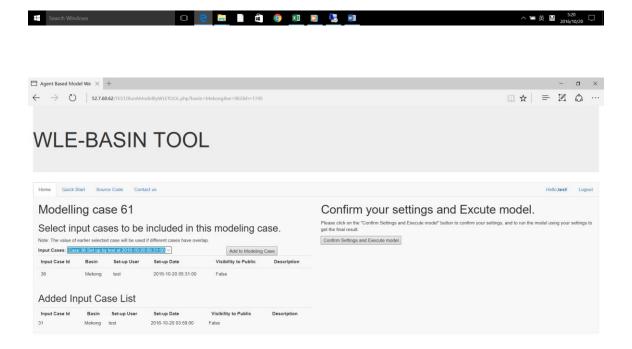


6 View others' inputs

5 Negotiation Mode

By clicking "Start a Negotiation" button on the home page, users could start a negotiation model. They should select a basin first, then add existing input cases to the model case before executing model. The user interface is shown in Figure 7.











7 Start Negotiation Model

8 Scenario Mode

By clicking "Start a Scenario" button on the home page, users could start a scenario model. They should select a basin first, then select an input case to start modeling. The user interface is shown in Figure 8.

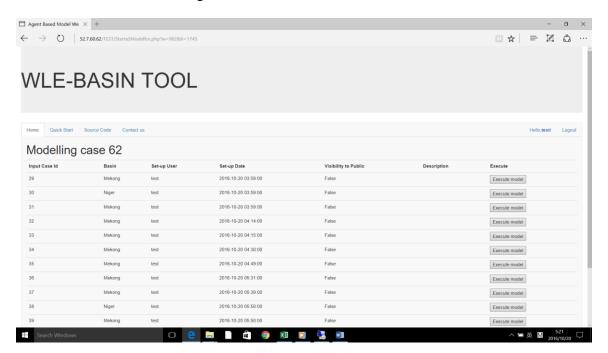


Figure 8 Start Scenario Model

9 View Result

By clicking "View Result" button on the home page, users could view previous model result. They should select a model case first, then click on the map to view result for a specific agent. The user interface is shown in Figure 9. And an example of visualized result is shown in Figure 10.

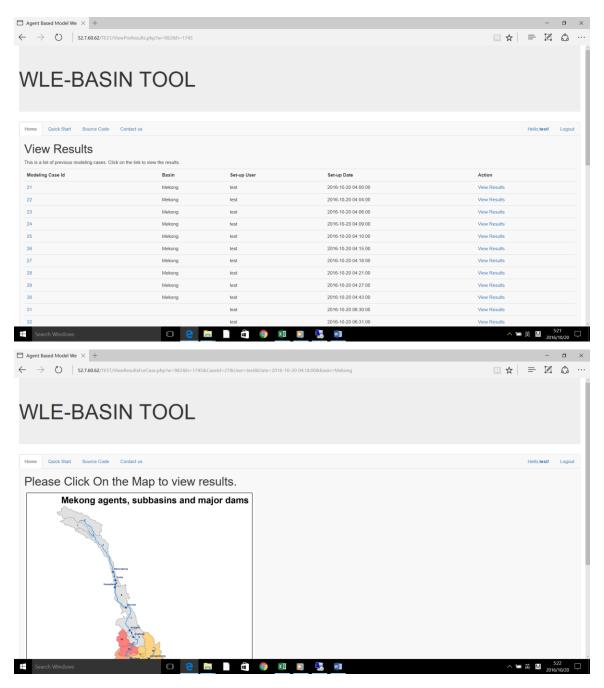


Figure 9 View Results

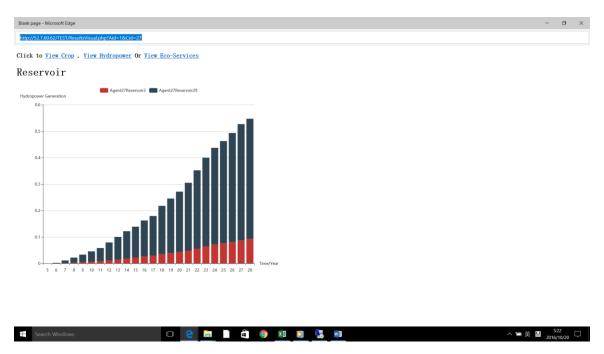


Figure 3.18 Visualize results

8 Compare results

By clicking "Compare Results" button on the home page, users could compare two previous model results. They should select two model cases first, then click on the map to view result for a specific agent. The user interface is shown in Figure 11. And an example of visualized result is shown in Figure 12.

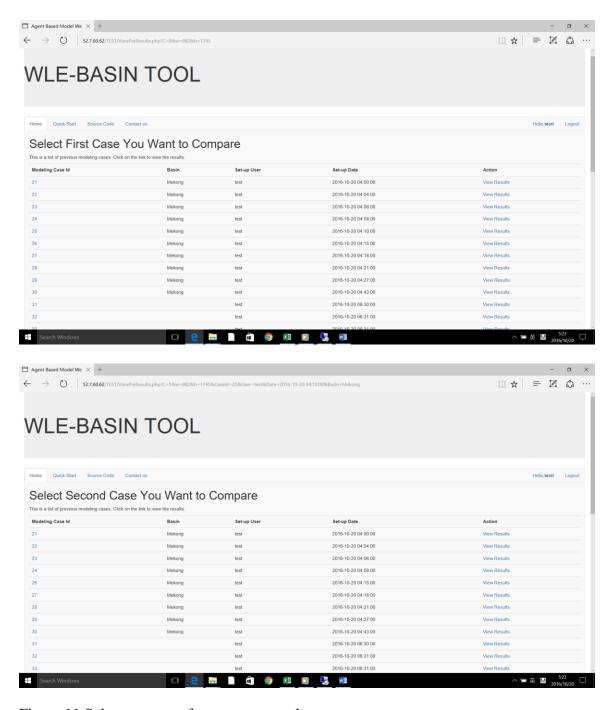


Figure 11 Select two case for compare results

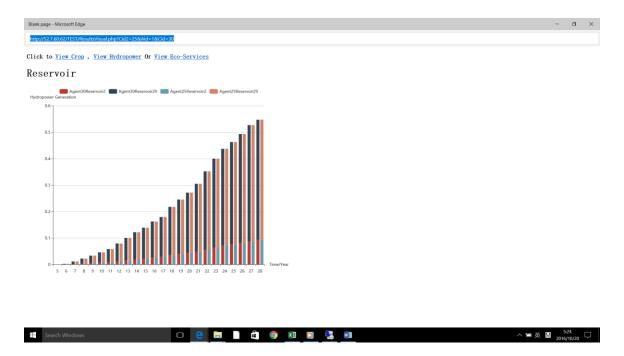


Figure 12 Compare Result Visualization