Goal: Adding components to combine the flow

Actor: User

Pre: there are some pumps and sinks on the grid

MSS:

1. User selects combine flow tool
2. User places combine flow connection
3. System shows dialog to specify the flow information
4. User inputs flow connection
5. System draws combine flow connection
6. User selects line drawing tool
7. User connects element to entrance of combine flow
8. System draws lines
9. User connects with line combine flow to next element
10. System draws line and shows flow output number

Ext:

4.1 User does not specify information

a) Defaults are used. MSS continues to 4.

4.2 User specifies invalid information

a) System shows invalid information dialog. MSS is stopped until valid information is specified

b) The dialog is canceled ending the MSS.

7.1 User connects more than the limit of entrances

a) Message is shown that the user cannot connect any more to that connection.

9.1 User specifies an invalid sink

a) Message is shown informing the user. MSS returns to 9 or ends.

9.2 The pump is maxed out or limit is reached.

a) Line color turns red. MSS continues.

9.3 The pump limit is excited.

a) Message is shown that the pump is dangerous(not allowed). MSS continues

Post: system display the connection between gates

Goal: To clear the grid

Actor: User

Pre: there are some elements on the grid

MSS:

1. User opens menu

2. User clicks on clear

3. System clears the grid

Ext:

2.1: User is shown a confirmation dialog to confirm that they wish to clear the grid.

a) User selects yes. The MSS continues to 3.

b) User selects no. The MSS stops.

Post: system display the connection between gates

Goal: To save the grid

Actor: User

Pre: there are some elements on the grid

MSS:

1. User opens menu

2. User clicks on save file

3. System shows save file dialog

4. User specifies file name and location

5. System saves the grid

Ext:

4.1 User does not specify name or location. The system shows an error message informing the user. MSS ends.

Post: system display the connection between gates