

Construction Quotation Assistant

User Guide

Software Engineering 3 (ENGR3791) Assignment A

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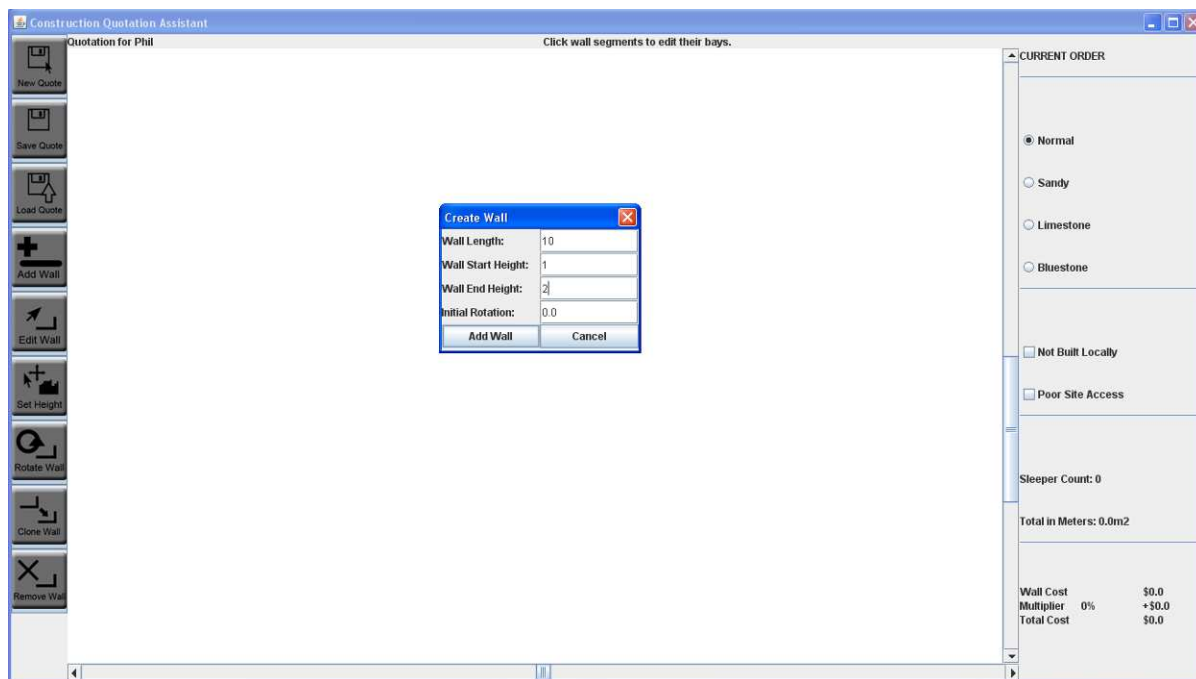
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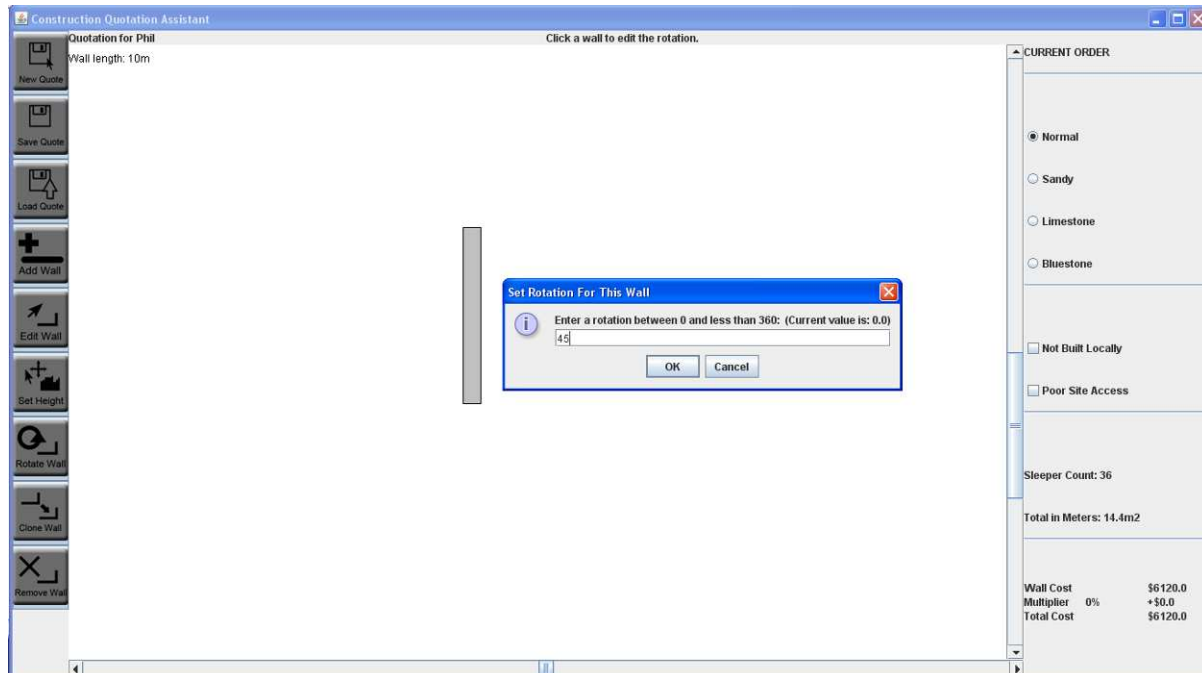
When the user opens the Construction Quotation Assistant (CQA) they are prompted by a dialog box to enter a client name for the current quotation. Once the user enters a Client Name the main application opens up. The application's default opening mode is a blank drawing plane which has the controls to add, edit, move, rotate, clone and remove walls on the left hand side. The controls to create new quotations or save and load quotations also exist. On the right hand side of the screen is the cost pane which contains the various multipliers that can be applied to the site as well as the total sleeper count and the total meters squared of the current quote. The cost of the quote is also calculated.



When the user wishes to add a wall to the plane they open up a dialog box which allows the user to enter the length of the wall, the start height and end height of the wall, it also allows the user to set the initial rotation of the wall. The user can then choose to add the wall to the graphics panel or cancel the addition of the wall

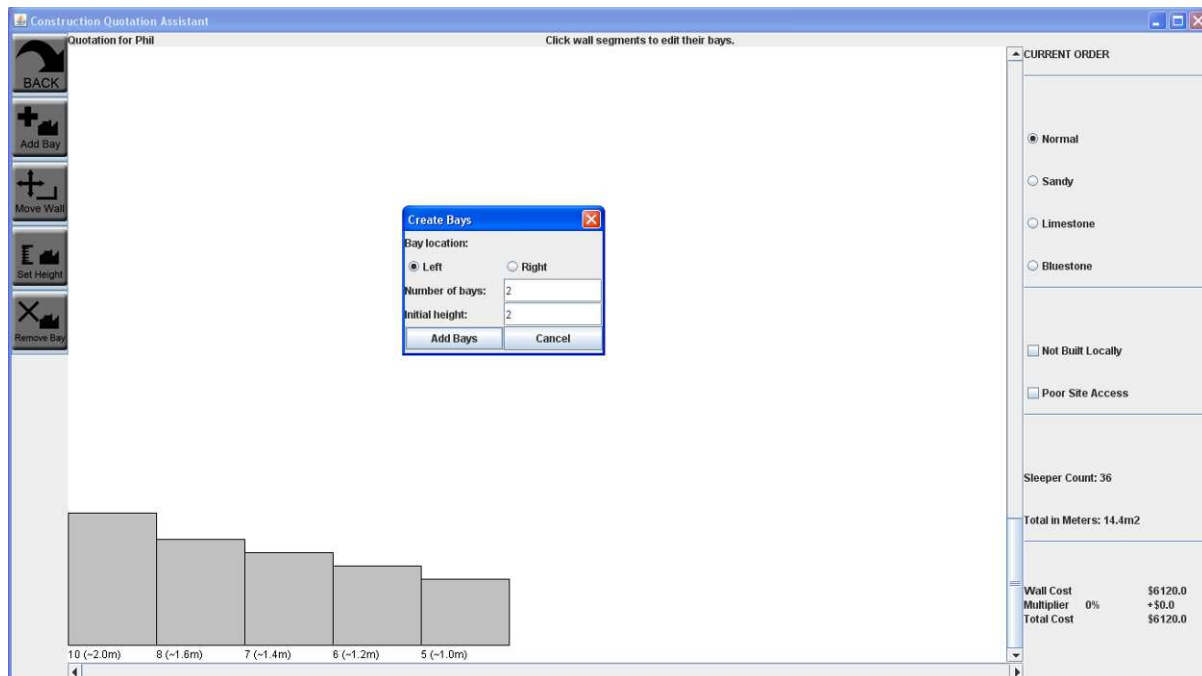


If the user wants to move a wall they press the move button then click the wall that they wish to move. While the user has the wall they wish to move selected they can drag the wall around the screen to where they want to move it. If the user wishes to change the rotation of a wall they can press the rotate wall button then press the wall that they wish to change the rotation of. When they select the wall they wish to change the rotation of a dialog box appears which allows the user to enter the rotation that they wish the selected wall to have.



The clone wall button allows the user to create an exact copy of a wall that currently exists in the drawing space. This is done by the user clicking the clone wall button, then selecting the wall they wish to clone and then placing the wall within the drawing space. The remove wall button allows the user to remove walls from the drawing pane by clicking the wall they wish to remove after they have selected the remove wall button.

The user can choose to edit one of the placed walls by pressing the edit wall button which allows the user to select the wall that they wish to edit. This brings up the side view of the selected wall, in the side view the buttons available to the user change. The first of these buttons is the back button which returns the user to the top view of the quotation. There is a remove button which works in the same way as the remove wall button. The add bay button opens a dialog box which allows the user to add a number of bays which is specified by the user to either the left or right side of the wall all with the same initial height specified by the user in the dialog box.



There are two buttons which allow the user to set the height of a bay, the first button allows the user to change the height of a bay using the mouse by dragging a bay up or down, thus changing the height of the bay. The second change height button allows the user to select a bay which opens up a dialog box letting the user enter a height for the bay; if the user enters a height that is invalid a warning box appears letting the user know what happened. If the user enters a height which has an odd decimal value it rounds down to the nearest multiple of two in the decimal place.

