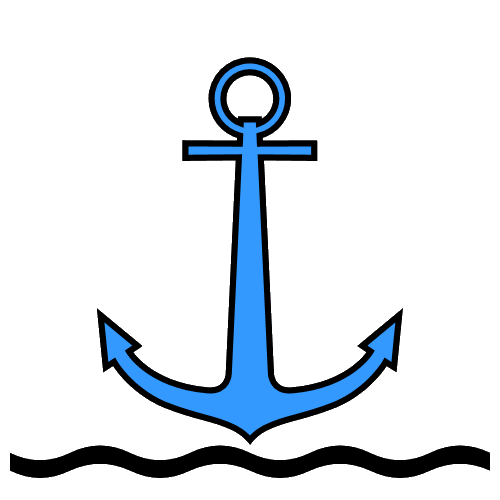
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**STEVE’S CRUISE LINE**

**PASSENGER RESERVATION APPLICATION & CRUISE CONTROL SYSTEM**

Final Report

Prepared for

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**SECTION I: Project Assumptions and Company Policies**

For this project, we are making the assumption that we are an in-house development team working directly inside the STEVE’S CRUISE LINES, and therefore have input/and or direct control of the company’s internal policies.

**Room Policies and Pricing**

It is the policy of STEVE’S CRUISE LINES that no more than 4 people are permitted in a single room. There are three types of rooms: Inside, Ocean View, and Balcony. The pricing scheme (per regular passenger) for each room is as follows:

Inside: $1800.00

Ocean View: $2300.00

Balcony: $2800.00

Additionally, passengers who are seniors (65+) receive a special discount of 20%.

Finally, passengers who book closer to the departure date (20 days) receive a special discount of 40%, which can stack with the senior discount for a total of 60%.

**Monetary Policies**

STEVE’S CRUISE LINES has a uniform policy when it comes to all monies onboard the ships.

* All currency is in US Dollars (USD).
* Passengers are first charged when they first reserve rooms before the trip. A single passenger in each room is designated as the bill holder, who is charged at the end of the trip for all items purchased while on the trip.
* Taxes are included in all item prices.
* Any tips that a passenger wishes to give to staff is kept by the said staff in full.

**SECTION II: Database Design**

Our database for this system has a total of 28 tables, which contains everything from passenger information to the drink inventory of each ship.

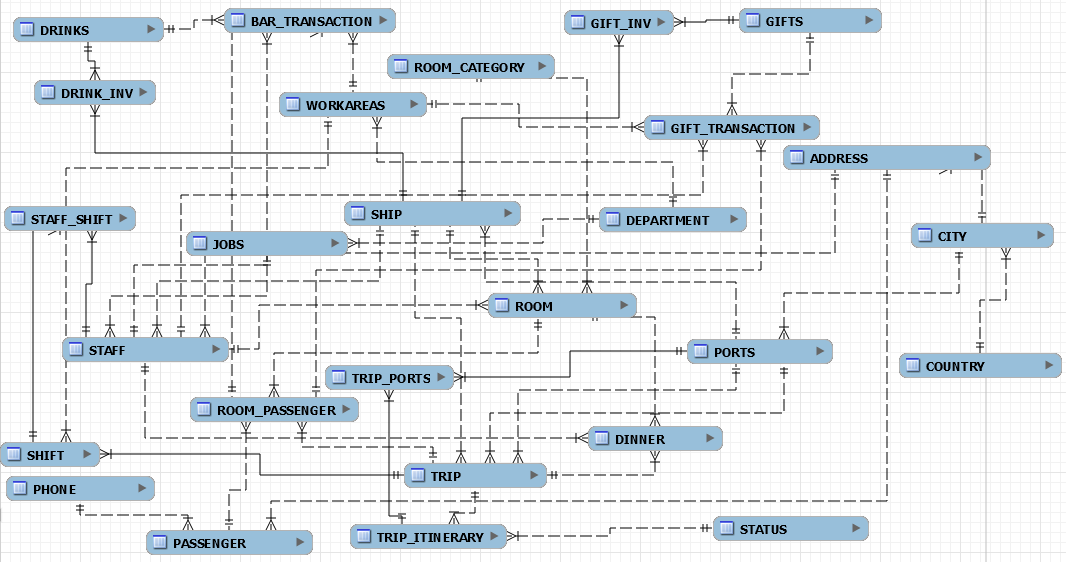
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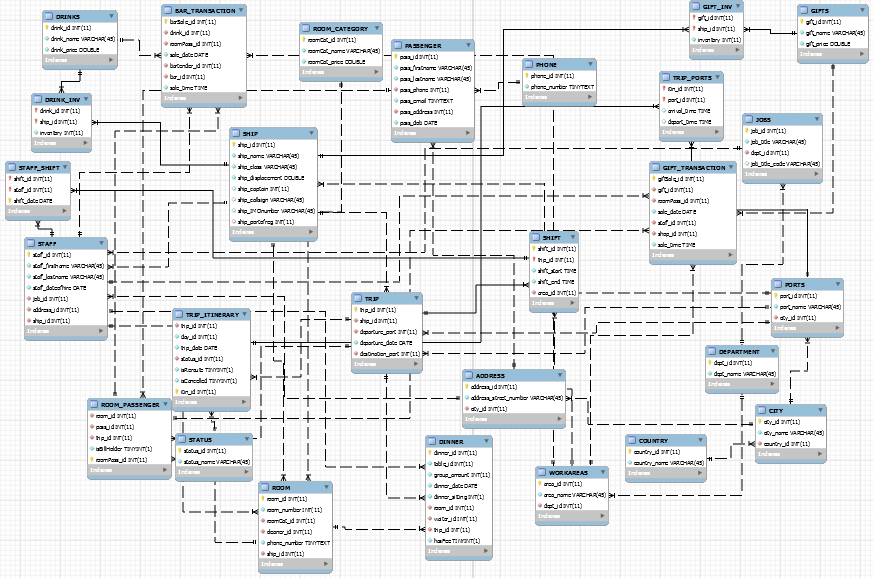
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ERD (collapsed)



ERD (expanded)

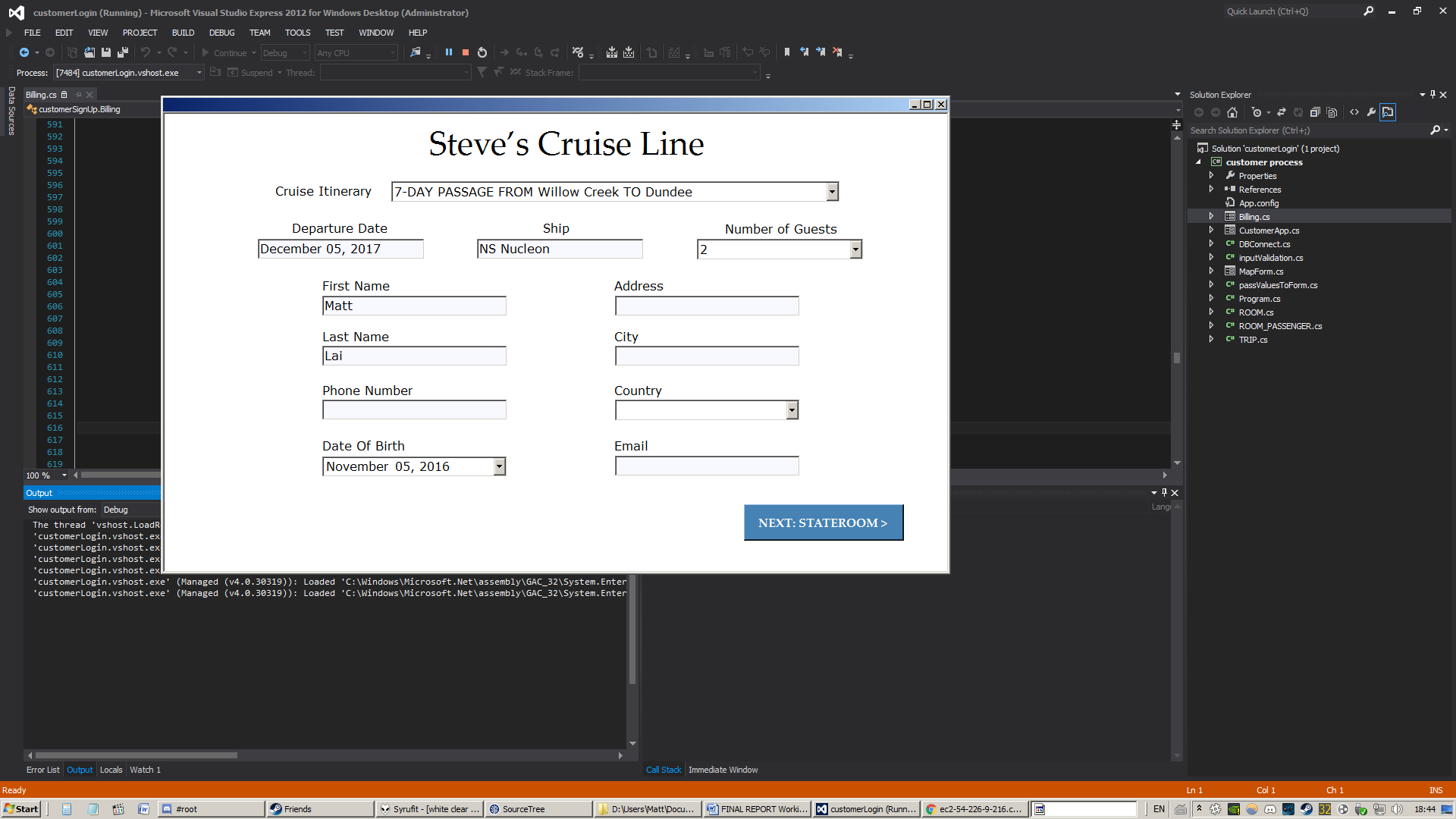


**SECTION III: System Description and Manual**

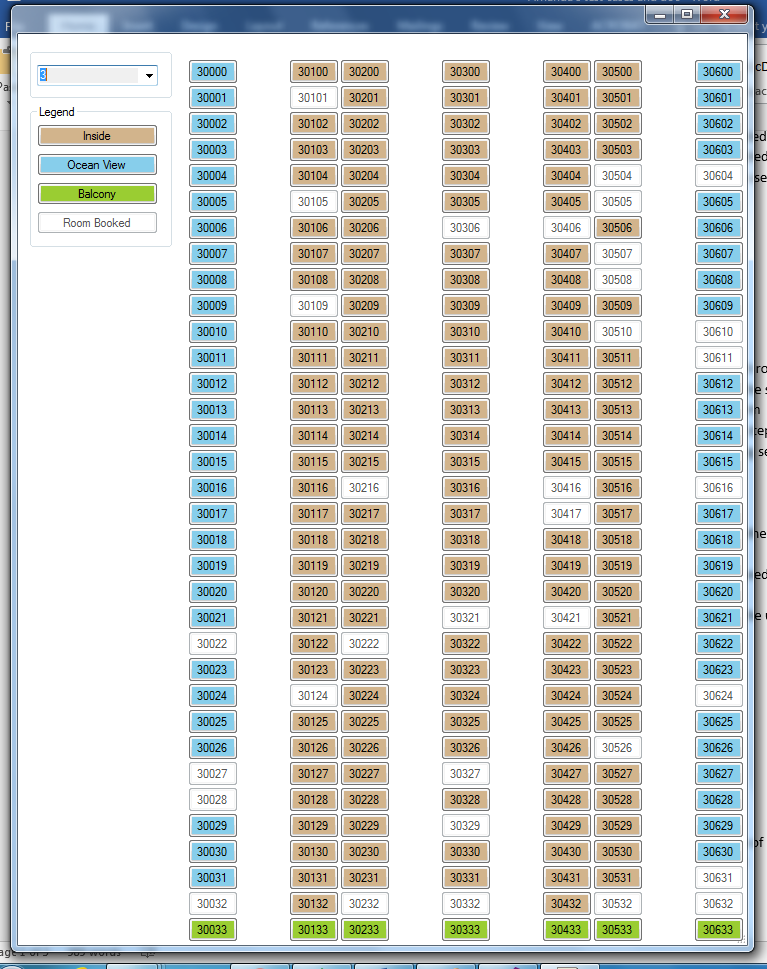
Our system consists of two programs: a reservation program intended for customers/passengers, and a CRUISE CONTROL which is a shipboard control program intended for the crew.

**Reservation Program**

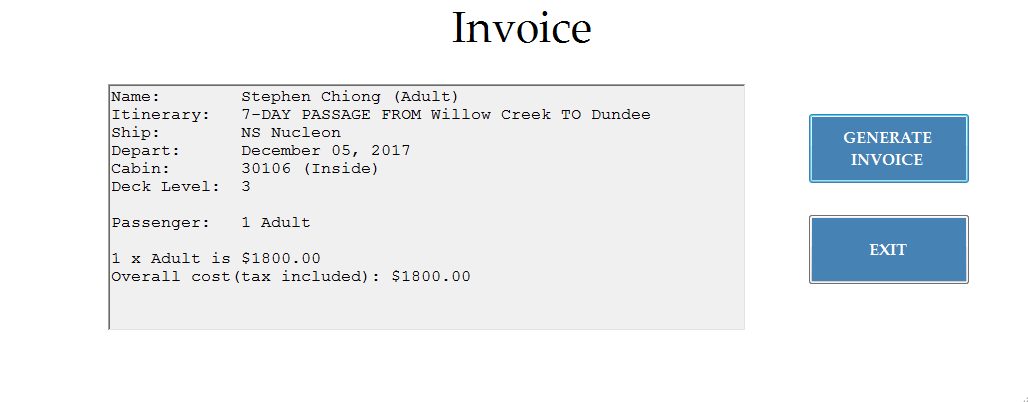
This program allows the user (in this case a customer) to book a room aboard a cruise. They are able to select a trip from a menu, and then will be prompted to enter their details. It is intended to be loaded onto a kiosk-like machine in the office for customers to use.



The user is first prompted with a blank form where they can select a trip, the amount of guests they’re bring with them (up to 3), and their personal information. Once they have filled out all the information correct, they can hit the ‘NEXT: STATEROOM’ button to continue onwards choosing a room. If they have guests, the program will prompt the user for their details first before proceeding.



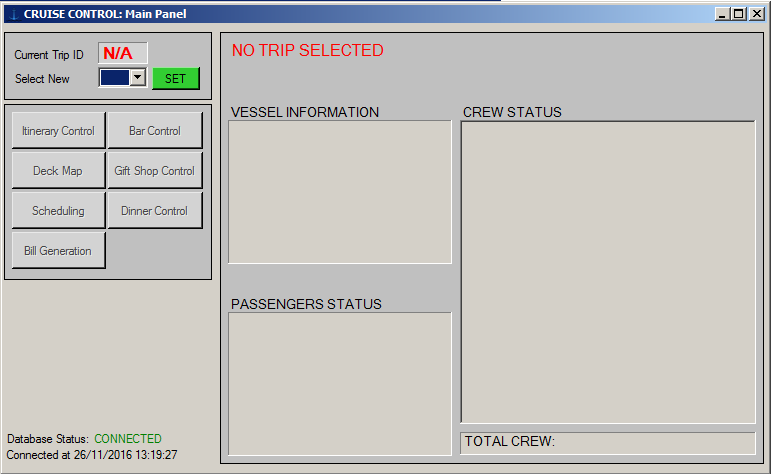
On the next form, the user is presented with a combobox in which they choose the deck they wish view. Under the combobox are non-interactive controls that make up the map legend. On selecting a deck in the combobox, a map of the selected deck is generated with. Booked rooms are represented by disabled buttons. Available rooms are represented by enabled buttons and are color coded according to the legend. Clicking on an available room assumes the user wishes to book this room and continues the program onto the final invoice form.



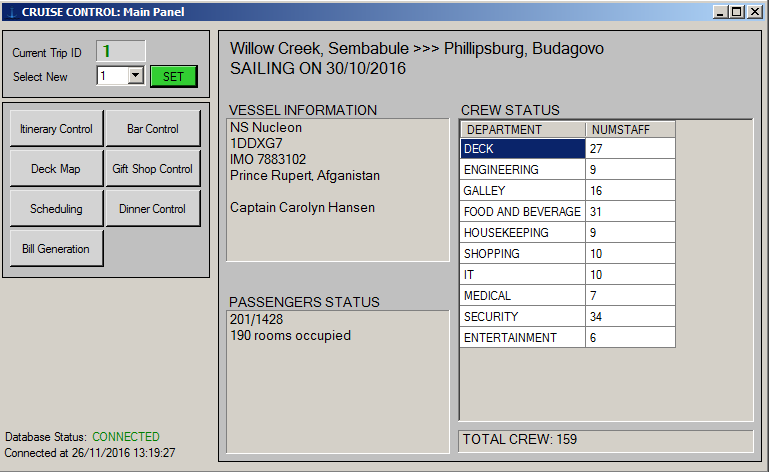
Once on the invoice form, the user clicks the ‘GENERATE INVOICE’ to print out their bill onto the display. Clicking the ‘EXIT’ button will return the user back to the first form.

**CRUISE CONTROL Program**

This program is intended for crew members of the ship to manage the functions of several areas of the ship. When the program first starts up, they will see the main control form. Note the lack of trip information.

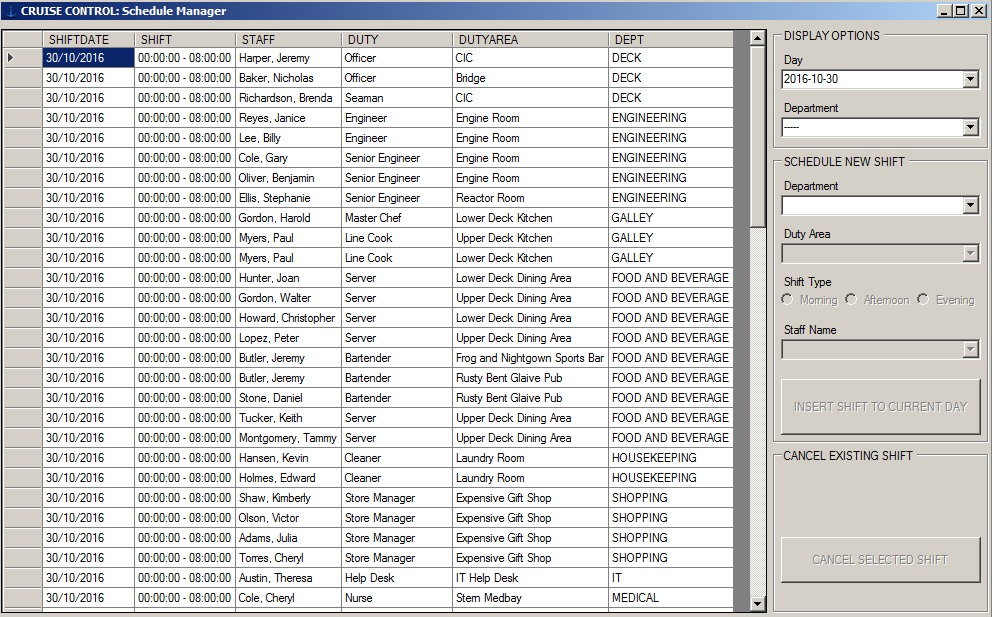


The user then uses the upper left controls to select a trip by its identification number. Information about the trip will then show itself on the right side, and the button controls on the left will become enabled.

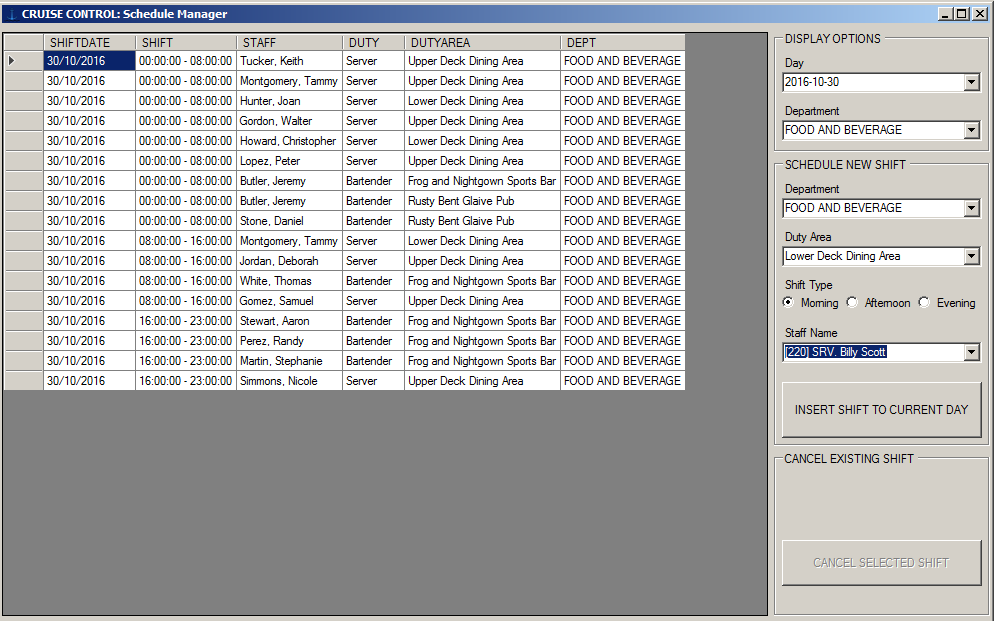


**CRUISE CONTROL: Scheduling Management**

This control is accessed from the main control program by pressing the ‘Scheduling’ button. From this control, the user is able to view the trip’s schedule by day, and filter it by departments. They are able to see information such as the shift times, the worker with their job, which area they’re assigned to, and more.



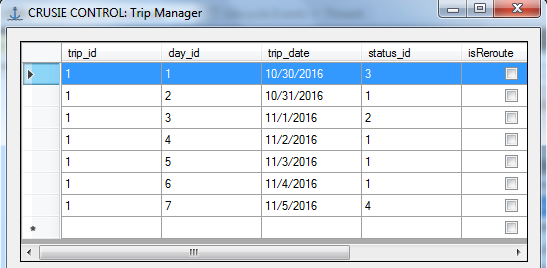
Using the controls grouped under ‘SCHEDULE NEW SHIFT’, the user is able to create new shifts and assigned them to the relevant employees.



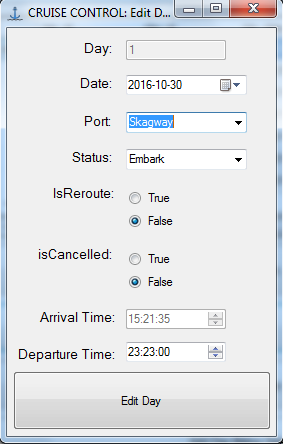
Finally, should the user wish to cancel a shift, the simply need to select the shift (row) they wish to cancel and hit the ‘CANCEL SELECTED SHIFT’ button.

**CRUISE CONTROL: Trip Manager**

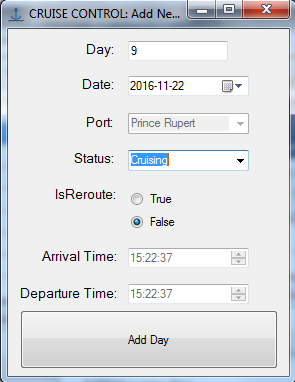
This control is accessed from the main control program by pressing the ‘Itinerary Control’ button. From this interface the user is able the edit the trip plan by adding more days and editing the contents of existing ones. To edit a day, the user selects a row from the display in the main GUI:



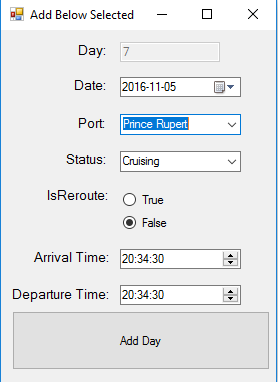
And then clicks the ‘Edit Day’ button. A new form will then appear on which they can edit the day’s details. When they are satisfied with the changes, the user clicks the ‘Edit Day’ button at the bottom of the form to save. The user then clicks the ‘Reload Days’ button on the main Trip Manager form to refresh the display.



To add a new day to the trip, the user clicks the ‘Add New Day’ button the main Trip Manager Form. A new form will then appear on which the user will be able to enter the details of the new day. When they are satisfied, they will click the ‘Add Day’ button at the bottom and the data will be saved. On the main Trip Manager form, the user will then click the ‘Reload Days’ button to refresh the display. Note: this function adds days to the end of the trip plan.



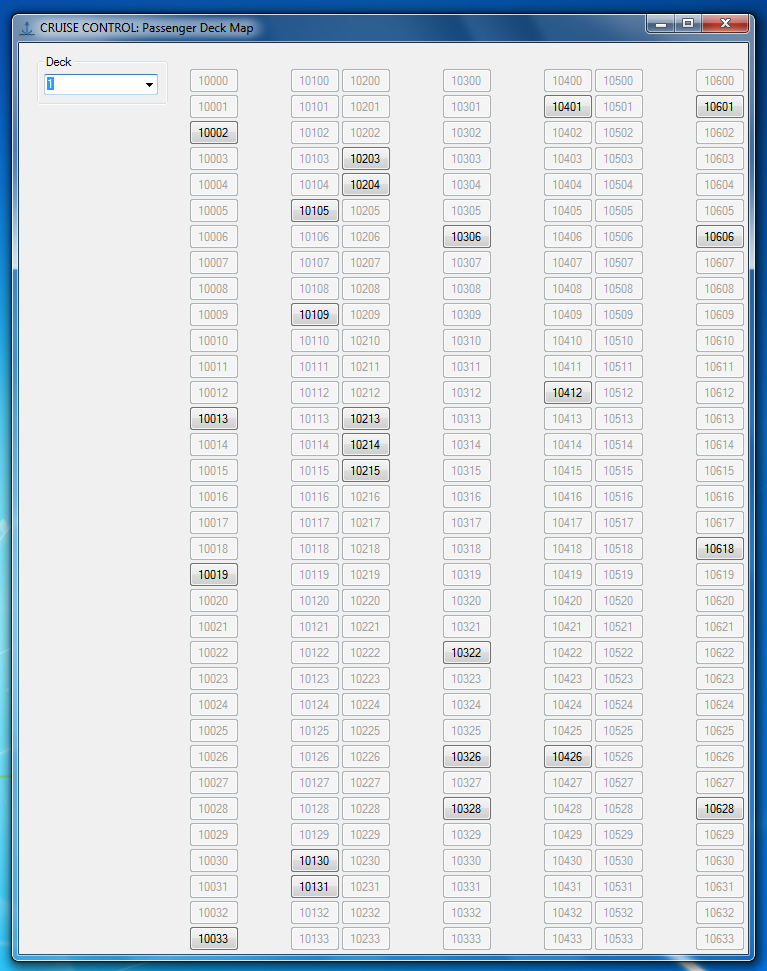
In order to add a new day between two existing days, the user must select a day on the display on the main Trip Manager form and hit ‘Add Day Below Selected’. A new form will then appear which will be very similar to the Add New Day sub-form.



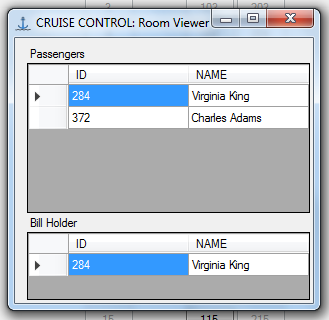
After entering the new data, the user will click the ‘Add Day’ button to save the inserted day. The user will then hit the ‘Reload Days’ button the main Trip Manager form to refresh the display. Note: it is highly recommended that the user at this point utilize the Edit Days function to cancel the inevitable duplicated day so that the newly insert day can take its place.

**CRUISE CONTROL: Deck Map**

This control is access from the main control program by clicking the ‘Deck Map’ button. This interface displays the floor plan of the ship and allows the user to view what passengers are in the selected room.



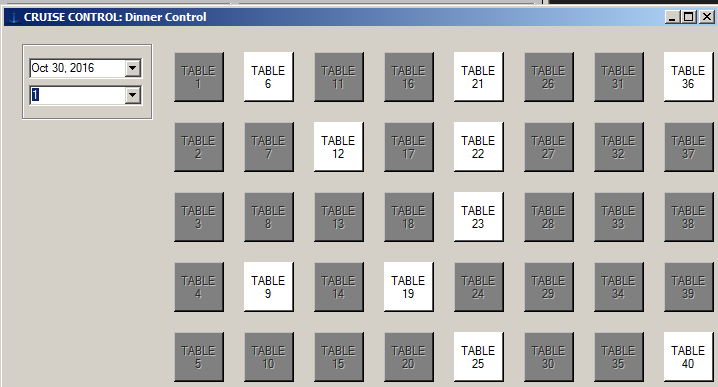
On launching the customer ship map, the user is presented with a combobox in which they choose the deck they wish view. On selecting a deck in the combobox, a map of the selected deck is generated with. Unlike the customer ship map, empty rooms are disabled and filled rooms are enabled.



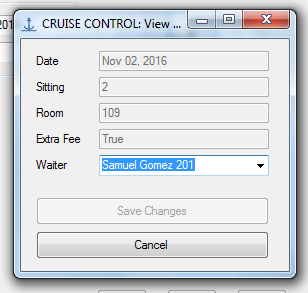
Clicking on a room brings up a form that lists the passengers residing in the room and the passenger whom is the bill holder for that room.

**CRUISE CONTROL: Dinner Control**

This control is access from the main control program by clicking the ‘Dinner Control’ button. This interface allows the user to see what tables in the dining area are booked, as well as how many guests are at the table and which waiter is assigned to it.



On launching the dinning map, the user is presented with two comboboxes in which they choose the date of dinning and the sitting number. When both values are selected, a map is generated with buttons. Empty tables are disabled and booked tables are enabled.



Clinking on an enabled table brings up a form with additional information: the date, the sitting number, the room of passengers who booked the table, if they’re paying an extra fee and their assigned waiter. The waiter value is displayed in a combobox which may be changed to assign a different waiter. This combobox contains all eligible employees, which are employees who are working on the current ship and whom are waiters. After selecting a different employee, the save changes button becomes enabled. Clicking this button assigns this waiter to the table in our database. The cancel button closes the information form without committing changes.

CRUISE CONTROL: Billing Control