

Vertigo Flight Booking GUI Application

We are developing a flight booking GUI application to book flight tickets between indian cities.

Team members

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Software Used:

QT activator (Open Souce) IDE.
Ubuntu OS environment.

Functionalities :

We are implementing the following functionalities .

- View seat availability
- Book a ticket
- Cancel a ticket
- View ticket details

View seat availability

Passenger can check the seat availability before booking a ticket. Passenger has to select from destination ,To destination and Date of journey and click on View Seat availability.

We will validate for from destination and to destination to be different and Date of Journey must be greater than current date and journey date should be less than 30 days from current date.

Book a ticket

Passenger has to select from destination ,To destination and Date of journey and click on the Book button. If seat is available then passenger will be asked to enter his details like Name, Age, Sex and Phone number. A ticket will be generated with unique Ticket booking Id and seat will allocated to the passenger.

Cancel a ticket

Passanger can cancel his ticket by entering his unique ticket ID and clicking on cancel ticket. Ticket Id is validated before cancelling the ticket. Appropriate error message are shown.

View ticket details

Passenger details can be seen by providing unique ticket ID. User has to enter unique ticket Id in ticket Id textbox. First ticket Id is validated before viewing the details. Appropriate error message are shown.

Programing Functions

void on_btnBook_clicked();

It is event Fired on click of Book ticket button.Collects all the inputs from the Passenger and books the seat if seat is available.

void on_btnCancelTicket_clicked();

It is event Fired on click of Cancel ticket button.Cancel the ticket if ticket is booked by Passenger entered Ticket ID.

void on_btnViewSeats_clicked();

It is event Fired on click of View Availability button. Checks the ticket availability.

void on_btnViewTicket_clicked();

It is event Fired on click of View Ticket Details.Views Passenger details based on given ticket Id. destination.

void Ticket::on_buttonBox_accepted()

It is event fired when ok button clicked on dialog box. Generates a ticket with unique ticket ID.

void Ticket::on_buttonBox_rejected()

It is event fired when cancel button clicked on dialog box. Cancels ticket booking.

GUI:
Main GUI

The screenshot shows a window titled "Vertigo Flight Booking". It contains the following elements:

- From:** A dropdown menu with "Bangalore" selected.
- To:** A dropdown menu with "Bangalore" selected.
- Ticket Id:** A text input field containing "1008".
- Date:** A date picker showing "27/11/14".
- Buttons:** Four buttons are arranged in a 2x2 grid: "View Availability", "Book Ticket", "View Ticket Details", and "Cancel Ticket".

Ticket UI for Passenger Details

The screenshot shows a dialog box titled "Passenger Details". It contains the following elements:

- Name:** A text input field containing "abcd".
- Age:** A text input field containing "22".
- Gende:** A dropdown menu with "Male" selected.
- Phone:** A text input field containing "5675757578".
- Buttons:** Two buttons at the bottom: "Cancel" and "OK".

Controls Used :

We are providing buttons to Book, Cancel, View seats and its availability.

Book Ticket – Is a button used to book the ticket.

View Availability – Is a button used to view the availability.

Cancel Ticket- Is a button used to cancel the ticket.

View ticket details – Is a button to view booked ticket details.

We are using two combobox to select from and to destination.

We are using one Date Edit control to select the journey date.

We are using a text box to user input the unique ticket Id.

We are using dialog box to collect Passenger Details it

We will use File handling to store and update booking information which will stored in same project folder.

Files Used

We will store the bus details in a file based on date in **mm_dd_yyyy.txt**.

It contains below sample data which contains From,To,seats booked.

Bangalore,Mumbai,3,
Bangalore,Chennai,4,
Bangalore,Delhi,0,
Bangalore,kolkata,7,

Bangalore,Mumbai,3 indicates From Bangalore to Mumbai booked 3 seats

We use **uniqueticked.txt** to store unique ticket Id. Unique id will be incremented when a ticket is booked and decremented when ticket is cancelled.

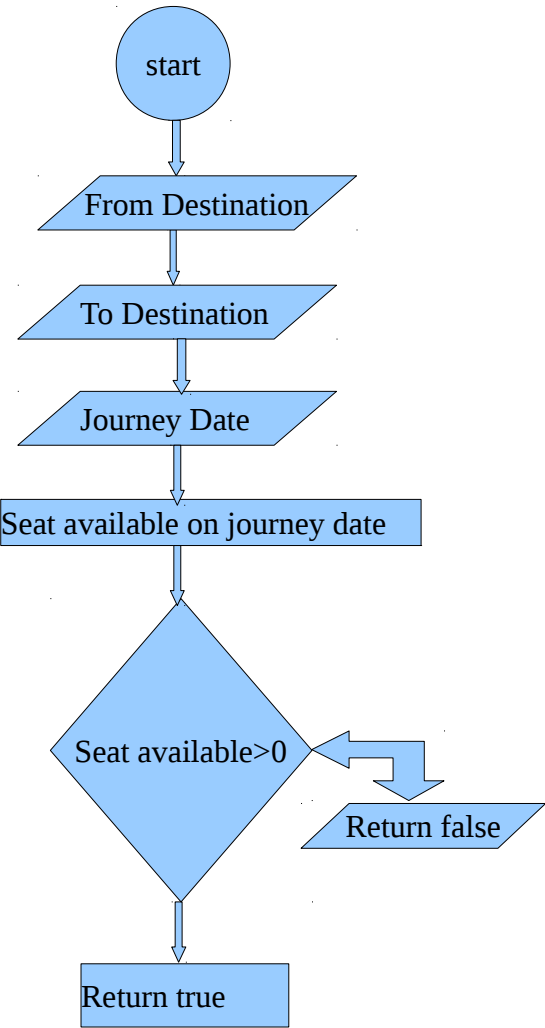
We use **PassengerDetails.txt** used to store passenger and ticket details in a file. It is the following format.

Unique Ticket Id, Passenger Name, Age, Gender, Phone, From destination, To destination, Date of Journey

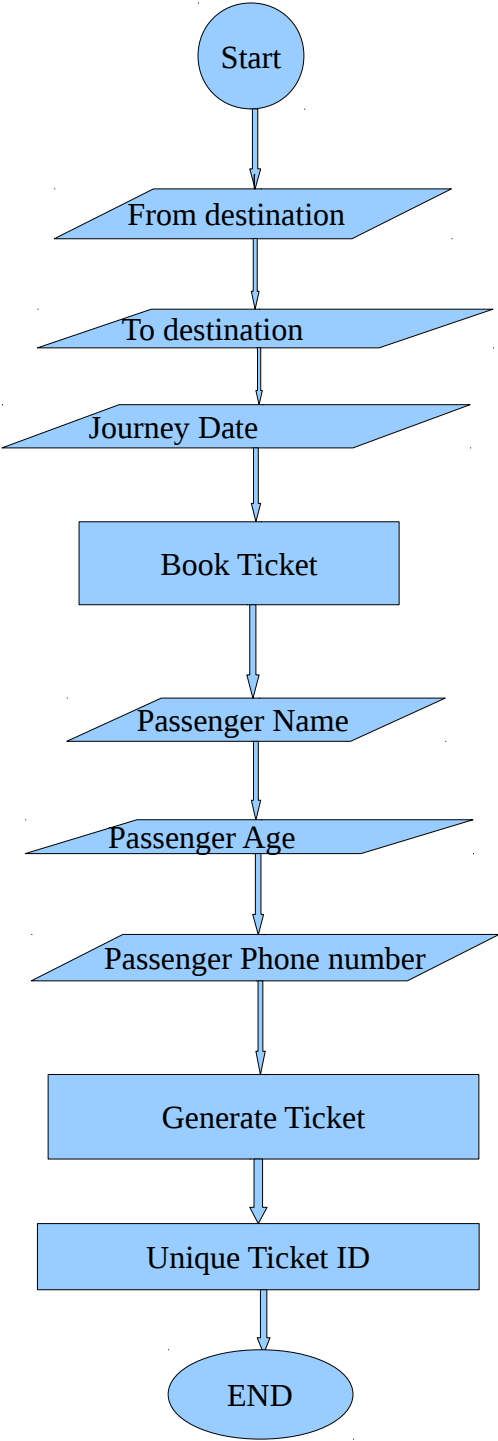
1001,Raju,20, Male,9777777777,Bangalore,Mumbai,25/11/2014.

FlowCharts :

View seat availability



Book Ticket



Cancel Ticket

