

IT5007 Tutorial-2: Ticket To Ride

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Summary

This is an offline web application developed to help front desk staff to maintain the train ticket reservation list. There are in total 4 different tabs within this application, namely Home, New Booking, Booking Cancellation and Display All Bookings.

- Home tab displays a quick summary of the seats available.
- New Booking tab allows front desk staff to make a new ticket booking. The tab also raises a prompt if a booking is not made after 60 seconds to ask if the user wants to continue or clear the page.
- Booking Cancellation tab lists down all existing bookings made and allows front desk staff to cancel a specific booking on the list. To cancel a booking, simply click the cancel button on the right side of a specific booking.
- Display All Bookings tab lists down all existing bookings made.

HTML

The HTML file implements the general structure of the offline web application, specifically the navigation bar, the main display on the home page as well as the layout of the respective tabs. It also includes validation check for full name and phone number fields on the booking tab.

JS

The JS file defines the global constants, global variables and the functions relevant to the offline web application. It implements event listeners to execute the relevant functions upon occurrence of specific events.

A summary of the important functions are as follows,

- 1) openTab – to open a specific tab and hide the remaining tabs
- 2) createBooking – to create a new booking with a given name and phone number. The new booking will be assigned a random serial number and the timestamp at the point of booking. It will also return a prompt if the booking list is full or if any of the required fields are empty.
- 3) cancelBooking – to cancel an existing booking in the display list.
- 4) load_storage and save_storage – to retrieve or store data of the booking list to window local storage so that the information will be preserved in the next user session.

CSS

The CSS file contains the styling of the offline web application. Notably, the display attribute under the tabcontent class helps to hide the other tabs when clicking on the navigation bar.

Additional CSS libraries from Bootstrap are also included to further enhance the styling of the offline web application.