
Technical Documentation for iRestaurant

FlowRouter

FlowRouter.route(/, /floorplan, /Reserve, /Success, /orderqueue, /manager, /waiter)

<https://github.com/Mitbits/Software-Project/tree/master/app/lib/routes.js>, line 4

A simple router for Meteor and routes the pages based on the link entered in the BlazeLayout render.

Arguments

/

BlazeLayout.render("loginPage")

/floorplan

BlazeLayout.render("floorplan")

/Reserve

BlazeLayout.render("reservationPage");

/Success

BlazeLayout.render("reservationSuccess");

/orderqueue

BlazeLayout.render("orderQueue");

/manager

BlazeLayout.render("manager");

/waiter

BlazeLayout.render("waiter");

MenuItem

new MenuItem(itemID, itemName, itemDescription, mealType, itemPrice, cookTime)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/menuitem.js>, line 28

Class representing an item on a menu.

Arguments

itemID Number

Unique item identifier

itemName String

Name of the item

itemDescription String

Describes the item

mealType ORDER_TYPE

The type of item

itemPrice Number

The cost of the item

cookTime Number

Time to make the item in minutes

Meteor

Meteor.setTimeout()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 57

Calls the reservation_check function on an interval to update table status

Meteor.startup()

<https://github.com/Mitbits/Software-Project/tree/master/app/server/main.js>, line 8

The code in this file is run every time meteor starts up. The file involves the creation of the sample data needed for the project and pushing them to their respective collections

ORDER_TYPE

ORDER_TYPE

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/menuItem.js>, line 13

Number

Enum for order types.

Order

new Order(orderID, waiterID, orderItems, timePlaced)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/order.js>, line 54

Represents an Order

Arguments

orderID Number

Unique order identifier

waiterID Number

Waiter identifier for waiter that placed the order

orderItems Array of orderItems

Contains all items for order

timePlaced Date

Time and date the order was created

Reservation

new Reservation(firstName, lastName, phoneNum, email, seats, date, assigned)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/reservation.js>, line 6

Represents reservation records from the client-side reservation system

Arguments

firstName String

First name of reservation holder

lastName String

Last name of reservation holder

phoneNum Number

Phone Number of reservation holder

email String

Email address of reservation holder

seats Number

Number of seats reserved

date Date

Date and time of reservation

assigned Boolean

-

Table

new Table(table_id, size, occupants, table_status, table_type, reservation_intv)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 66

Represents a table at the restaurant

Arguments

table_id Number

Unqie table identifier

size Number

Size of the table in seats

occupants Number

Number of people seated at the table

table_status TableStatus

Current status of the table

table_type TableType

The type of table

reservation_intv Number

Time interval used to update reservations

TableCluster

new TableCluster(size, reservations)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 169

A node that groups Table objects based on size. Also accounts for reserved tables.

Arguments

size Number

Size of the TableCluster

reservations Reservation

reservations of tables

TableStatus

TableStatus

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 12

String

Enum for the current status of a table

TableType

TableType

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 27

String

Enum that represents the type of a table

TimeObject Creator

TimeObject Creator

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 45

Creates the time objects when the page is rendered.

addOccupants

addOccupants(numOccupants)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 133

Adds occupants to a table

Arguments

numOccupants Number

number of occupants to be added to the table

Returns

Status of operation

addTimeHandler

addTimeHandler(event, templateInstance)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 95

Adds a specified amount of time (30secs for now) to the current time of an Order

Arguments

event

templateInstance

apps

apps()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 186

returns all the objects from the database with the mealType of Enum 1, appetizers.

cards

cards()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 156

Loops through the order array and adds the selected items to allow the application to display the data

checkValidReservation

checkValidReservation(time)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 214

Checks if a reservation can be added to the wait list.

Arguments

time Number

Time to check the reservations

Returns

boolean

True if the number of reservation tables is less than the number reserved at some time.

click

click #addItem()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 127

Creates the order item for the selected item and pushes the order back into the orderArray

click #cancelOrder()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 105

Drops all the selected items for the order

click #placeOrder()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 90

Takes all the Order items created by orderArray and fills in the rest of the fields of the order and places the order into the order collection

click #removeItem()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 137

Removes the respective item from the orderArray so it is not placed in the final order

click .Appetizers()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 27

Displays the appetizers menu and hides the rest along with the sidebar

click .Desserts()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 63

Displays the desserts menu and hides the rest along with the sidebar

click .Entrees()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 39

Displays the entrees menu and hides the rest along with the sidebar

click .FloorPlan()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 51

Displays the floor plan and hides the rest along with the sidebar

click .drinkicon()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 114

Opens the drinks modal showcasing all the menu items classified as drinks

click .gray.right.corner.label()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 50

Updates table status to Taken from Reserved

click .green.right.corner.label()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 38

Updates table status to Taken from Clean & Updates number of Occupants on table

click .minus.icon.link()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/reservation/reservation.js>, line 22

Decrements count by 1 with minimum of 1

click .minus.icon.link()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/reservation/reservation.js>, line 22

Decrements count by 1 with minimum of 1

click .placeOrder()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 76

Displays the place order tab and hides the rest along with the sidebar

click .plus.icon.link()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/reservation/reservation.js>, line 6

Increments count by 1 with maximum of 4

click .plus.icon.link()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/reservation/reservation.js>, line 6

Increments count by 1 with maximum of 4

click .red.right.corner.label()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 18

Updates table status to Clean from Dirty

click .ui.yellow.button()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 8

Updates table status to dirty from taken

click div

click div#tap()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 8

Catches all the events that occur on the page

combineMealAndMenuItems

combineMealAndMenuItems(order, orderItem, menuItem)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/priorityManager.js>, line 46

Combines information from both the Order object and the menuItem object

Arguments

order

Order object that contains the different fields of an order

orderItem

A particular field of the an order instance that contains the list of items for a particular order

menuItem

An object that contains the information specific to each item on the menu

Returns

Object

createOrderItem

createOrderItem(mItemID, mPriority, mMenuItemID, mSpecialRequests)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 9

Creates an order item with the following parameters

Arguments

mItemID

mPriority

mMenuItemID

mSpecialRequests

createOrderItems

createOrderItems()

<https://github.com/Mitbits/Software-Project/tree/master/app/server/main.js>, line 96

Generates an array of random orderItems using the getRandomNumber and createOrderItem functions.

Returns

Array

desserts

desserts()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 200

returns all the objects from the database with the mealType of Enum 3, desserts.

doneButtonHandler

doneButtonHandler(event, templateInstance)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 67

Allows user to get rid of an order from the order queue

Arguments

event

templateInstance

drinks

drinks()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 179

returns all the objects from the database with the mealType of Enum 0, drinks.

entrees

entrees()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 193

returns all the objects from the database with the mealType of Enum 2, entrees.

getNumOccupants

getNumOccupants()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 158

Gets the number of occupants at a table

Returns

Number or *

- number of occupants at a table

getRandomNumber

getRandomNumber(min, max)

<https://github.com/Mitbits/Software-Project/tree/master/app/server/main.js>, line 76

Generates a random number

Arguments

min Number

Lower bound of the random number

max

Upper bound of the random number

Returns

Number

getTime

getTime(event, \$timeObj)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 127

Gets the current time being shown to the user

Arguments

event

\$timeObj Object

Returns

Object

isClean

isClean()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 128

Checks if current table is Clean

Returns

Boolean

isDirty

isDirty()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 117

Checks if current table is Dirty

Returns

Boolean

isReserved

isReserved()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 139

Checks if current table is Reserved

Returns

Boolean

isTaken

isTaken()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 150

Checks if current table is Taken

Returns

Boolean

isToday

isToday()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/reservation.js>, line 58

Checks if the date of the Reservation corressonds to the current server date

Returns

boolean

True if date matches, false otherwise

minID

minID

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/order.js>, line 13

Validation parameter for unique ID numbers used in various classes.

orderItem

new orderItem(itemID, priority, menuItemID, specialRequests)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/order.js>, line 27

- Represents an item for an order.

Arguments

itemID Number

Unique identifier representing an item within an order

priority Number

Priority number for item in the order queue

menuItemID Number

Indicates the menuItem this item represents

specialRequests String

Contains any requests by the customer to notify the chef about a particular item

placeOrder

placeOrder()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/order.js>, line 95

Makes an order available to the order queue by storing an 'order' document in the database

Returns

Number

Status of database write operation

popReservation

popReservation(res)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 192

Removes a reservation from the wait list

Arguments

res Reservation

reservation to be removed

Returns

Status of database write operation

pushReservation

pushReservation(res)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 203

Adds a reservation to the wait list

Arguments

res

reservation to be added

Returns

Status of database write operation

remote_delete

remote_delete()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/reservation.js>, line 73

Deletes a Reservation matching the phone number

removeCollection

removeCollection()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/selectedItems.js>, line 51

Empties the selectedItems collection

Returns

Number

Status of database write operation

removeItem

removeItem(id)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/selectedItems.js>, line 59

Removes an item from selectedItems collection

Arguments

id Number

itemID of the record to remove

Returns

Number

Status of database write operation

removeReservation

removeReservation()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 111

Deletes a reservation entry from the table

Returns

Status of database write operation

reservation_checker

reservation_checker(id)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 35

Sets table statuses based on their existing current status.

Arguments

id

reservations

reservations()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/reservation/reservation.js>, line 79

Returns all Reservations from the database

Returns

Reservation Collection

reservations()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/reservation/reservation.js>, line 79

Returns all Reservations from the database

Returns

Reservation Collection

resetTimer

resetTimer(event, templateInstance)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 191

Resets the timer

Arguments

event

templateInstance

restime

restime()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 161

Takes current reservation date from database and converts it into 12 Hour Standard Time

Returns

12 Hour Time Format

saveltem

saveltem()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/selectedItems.js>, line 43

Saves a `selectedItem` to the collection

Returns

Number

Status of database write operation

selected

selected()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/waiter/waiter.js>, line 209

returns all the objects from the `selectedItems` collection

selectedItem

new selectedItem(itemID, itemName, itemDescription, mealType, itemPrice, cookTime)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/selectedItems.js>, line 7

Represents items selected by the waiter while placing an order

Arguments

itemID Number

Unique item identifier

itemName String

Name of the item

itemDescription String

Describes the item

mealType ORDER_TYPE

The type of item

itemPrice Number

The cost of the item

cookTime Number

Time to make the item in minutes

setOccupantLimit

setOccupantLimit(numOccupants)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 148

Set maximum number of occupants

Arguments

numOccupants Number

limit to set for the number of occupants for a table

Returns

Status of database write operation

sssavae

sssavae()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 184

Saves a table cluster entry from the client side.

Returns

Status of database write operation

sssave()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 184

Saves a table cluster entry from the client side.

Returns

Status of database write operation

start

start()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/priorityManager.js>, line 12

Starts the priority manager, initializes the different variables needed for the function, operates on those variables to calculate the priorities

Returns

Array of orderItemss

An array of order items in the correct order

startCountDown

startCountDown(\$timeObj, duration, resetTimeText, timer)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 168

Starts the count down and appropriately updates the screen

Arguments

\$timeObj Object

duration Number

Time length (seconds)

resetTimeText String

sets screen display to appropriate time (mm:ss (units))

timer CountdownTimer

holds data needed for numerous times

startTimer

startTimer(event, templateInstance)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 113

When the user clicks on an Order this function will start the timer for that order

Arguments

event

templateInstance

submit

submit #Register-form(event)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/Login/loginJS.js>, line 2

Gets all the values from each field in the registration form and uses the Meteor accounts package to create an account

Arguments

event

submit #login-form(event)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/Login/loginJS.js>, line 49

Gets all the values from the login form and then logs the user in with the Meteor login and redirects them to their respective page.

Arguments

event

submit form

submit form(event)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/reservation/reservation.js>, line 37

Obtains all Elements from reservation page and assigns them into reserve. reserve is then pushed into the database as a reservation.

Arguments

event

tableChecker

tableChecker()

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 231

Table management function that checks table statuses, reservations, & occupants on an intervals

tables

tables()

<https://github.com/Mitbits/Software-Project/tree/master/app/client/floorPlan/floorplan.js>, line 100

Returns all Tables from the database

Returns

Table Collection

timeToString

timeToString(min, sec)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 145

Converts numerical time to text form

Arguments

min Number

Minute Input

sec Number

Second Input

Returns

string

timerExpired

timerExpired(\$timeObj)

<https://github.com/Mitbits/Software-Project/tree/master/app/client/order/order.js>, line 207

Highlights the row red when the timer time expires

Arguments

\$timeObj Object

A jquery object of the encapsulates the timer div

updateTableStatus

updateTableStatus(toStatus)

<https://github.com/Mitbits/Software-Project/tree/master/app/imports/api/table.js>, line 123

Changes the current table status to the specified status

Arguments

toStatus

Returns

Status of database write operation