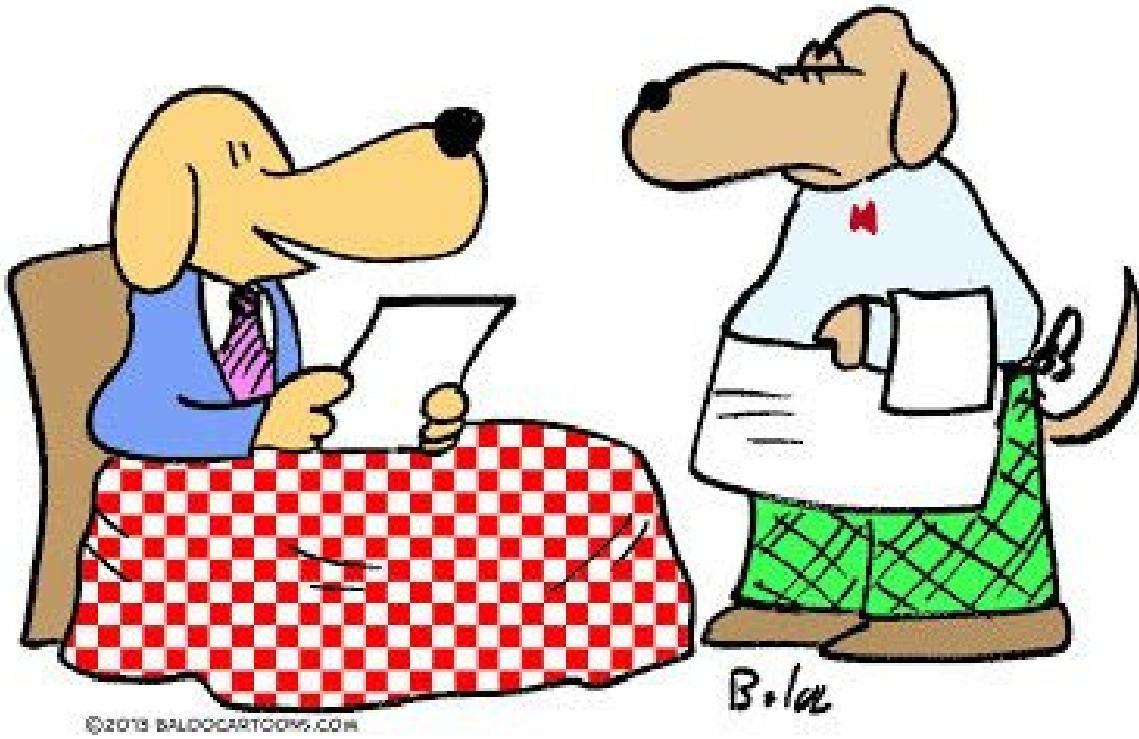


SWE: Serve with Ease

GROUP #1

Project: Restauranting Made Easy
Technical Documentation



"How's the homework today?"

Team Members: Annie Antony, Athira Haridas, Christina Parry, Emma Roussos, Christina Segerholm, and Nishtha Sharma

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1.) Overview of the System

The SWE system implements a client server structure where each employee with a tablet is a client and the three databases and message controller act as the server. SWE is also implements a distributed database system because it uses three different databases.

The databases are as follows:

- Database A holds all employee information. This will handle login and logout requests from all employees.
- Database B holds the list of tables in the restaurant and the information associated with that table. This will handle requests from the Host to get table data.
- Database C holds the menu, the inventory, and the revenues. This will handle requests for the menu from the waiter as well as updates on the inventory from the chef. It will also

The Message Controller will be used to forward messages from one employee to another. This way the user's tablet does not have to know all of the other active tablet's IP addresses, only the Message Controller's IP address.

Database A, B, and C, as well as the Message Controller, will run on their own processes. They can be started by running DatabaseAController.java, DatabaseBController.java, DatabaseCController.java, and MessageController.java.

Each employee should have their own tablet and this tablet will run TabletApp.java.

This program will set up a connection with Database A and send a request with an employee id to login. The response will include the position of the employee id on success. Then it will close this connection and start up the interface that corresponds to that position.

Each interface has a

- Message listener: constantly listens for messages sent from the Message Controller.
- Message sender: sends any messages from this user to the Message Controller
- Interface Controller: controls the data associated with this interface and what screen is open
- JPanels (one for each screen): draws the screen for the user using the data in the interface controller

There is a host, chef, manager, waiter, and owner interface.

The configuration file is used to hold the IP Addresses of the Databases and the Message Controller and must be updated accordingly in configuration/domainNames.txt and configuration/portNumbers.txt.

2.) Packages:

Chef

- Holds all files associated with the chef interface. Notice that this is not finished (labeled WIP = work in process)

Configuration

- Holds files used for configuring the sockets. Holds the text files that hold the IP Addresses and Port Numbers of the DB A,B,C and Message Controller servers.
- databaseA
- Holds controller(used to start up DB A) and the data structure class Employee.
- dataBaseC
- Holds controller(used to start up DB B) and the following data structure classes: Table, TableList
- dataBaseC
- Holds controller(used to start up DB C) and the following data structure classes: Dish, DishData, Ingredient, Menu.
- Host
- Holds all files associated with the host interface. (listed in overview of system)
- loggingIn
- Holds TabletApp.java and the log in screen panel.
- Manager
- Holds all files associated with the manager interface. (listed in overview of system)
- messageController
- Holds all files associated with the message controller and the data structure class Message.
- Waiter
- Holds all files associated with the waiter interface. (listed in overview of system)

3.) Javadoc

These Docs show describe the function of each method and class within the application.

All Javadocs are attached below.

Configuration Package

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configuration

Class Configure

`java.lang.Object`
 configuration.Configure

```
public class Configure
extends java.lang.Object
```

This class will be used to get the port numbers and domain names of the different databases and message controller.

Author:

cms549 It gets the information from domainNames.txt and portNumbers.txt.

Constructor Summary

Constructors**Constructor and Description**

`Configure()`

Method Summary

All Methods **Static Methods** **Concrete Methods****Modifier and Type****Method and Description**

`static java.lang.String getDomainName(java.lang.String serverName)`

Reads the domain name for the given server in the configuration file

`static int`

`getPortNumber(java.lang.String serverName)`

Reads the port number for the given server in the configuration file

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait`

Constructor Detail

Configure

```
public Configure()
```

Method Detail

getPortNumber

```
public static int getPortNumber(java.lang.String serverName)
```

Reads the port number for the given server in the configuration file

Parameters:

serverName - = name of server (databaseacontroller) this is not case sensitive

getDomainName

```
public static java.lang.String getDomainName(java.lang.String serverName)
```

Reads the domain name for the given server in the configuration file

Parameters:

serverName - = name of server (databaseacontroller) this is not case sensitive

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Database A Package

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databaseA

Class DatabaseAController

```
java.lang.Object
    java.lang.Thread
        databaseA.DatabaseAController
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class DatabaseAController
extends java.lang.Thread
```

Starts the DataBase A. This will handle requests for log in. DB A holds employee info.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

`DatabaseAController(java.net.Socket listener)`

Constructor

Method Summary

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
static boolean	<code>addEmployee(java.lang.String name, char position)</code> Adds an employee to the database
static void	<code>generateRandomEmployeeList()</code> Used for testing.
static void	<code>main(java.lang.String[] args)</code> Starts the DataBase A.
void	<code>run()</code> Starts a new thread for the DB A controller so it can communicate with one tablet on one thread.

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

DatabaseAController

```
public DatabaseAController(java.net.Socket listener)
```

Constructor

Parameters:

listener -- socket to one tablet that database A will use to communicate with a tablet to log it on properly.

Method Detail

addEmployee

```
public static boolean addEmployee(java.lang.String name,  
                                char position)
```

Adds an employee to the database

Parameters:

name -- name of employee

position -- position of employee w = waiter, h = host, c = chef, m = manager, o = owner

Returns:

true on success, false if you did not put in a valid position or if name is null

run

```
public void run()
```

Starts a new thread for the DB A controller so it can communicate with one tablet on one thread.

Reads the socket in and looks for a 'L' (which signifies logging in) or 'O' (logging out) Next it writes to the socket the position of the employee if they are logging in or 'o' if the id is not valid it writes L if the employee is already logged in on a log out it changes the employee with that id to logged out This ensures that an employee doesn't log on to two devices.

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

main

```
public static void main(java.lang.String[] args)
```

Starts the DataBase A. Creates a new thread for each log in request.

Parameters:

args -

generateRandomEmployeeList

```
public static void generateRandomEmployeeList()
```

Used for testing.

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databaseA

Class Employee

`java.lang.Object`
databaseA.Employee

```
public class Employee
extends java.lang.Object
```

Data structure to represent an Employee. Used by Database A to keep track of Employees.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
<code>java.lang.Long</code>	<code>id</code> Unique ID of employee
<code>boolean</code>	<code>loggedIn</code> True if the employee is currently logged in.
<code>java.lang.String</code>	<code>name</code> Name of employee
<code>char</code>	<code>position</code> Char to describe employees position: w=waiter, h=host, c=chef, m=manager, o=owner

Constructor Summary

Constructors

Constructor and Description

`Employee(java.lang.String name, long id, char position)`

Create a new employee

Method Summary

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

name

public java.lang.String name

Name of employee

id

public java.lang.Long id

Unique ID of employee

position

public char position

Char to describe employees position: w=waiter, h=host, c=chef, m=manager, o=owner

loggedIn

public boolean loggedIn

True if the employee is currently logged in. False if not.

Constructor Detail

Employee

```
public Employee(java.lang.String name,  
               long id,  
               char position)
```

Create a new employee

Parameters:

name -- name of employee

id -- employee id

position -- position of employee (w=waiter, h=host, c=chef, m=manager, o=owner)

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Database B Package

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databaseB

Class DatabaseBController

```
java.lang.Object
    java.lang.Thread
        databaseB.DatabaseBController
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class DatabaseBController
extends java.lang.Thread
```

Starts the DB B. Host will use this to grab the list of tables

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields

Modifier and Type	Field and Description
static com.google.gson.Gson	jsonConverter used to convert java objects to JSON format and vice versa.
static TableList	listOfTables Holds the list of tables.

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

`DatabaseBController(java.net.Socket listener)`

Constructor

Method Summary

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
static boolean	<code>addTable(int tabNum, int maxOccupancy)</code> Adds table to the list of tables
static void	<code>generateTables()</code> Used for testing
static void	<code>main(java.lang.String[] args)</code> Starts base thread for DB B
void	<code>run()</code> Each request will get its own thread.

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

jsonConverter

```
public static com.google.gson.Gson jsonConverter
```

used to convert java objects to JSON format and vice versa.

listOfTables

```
public static TableList listOfTables
```

Holds the list of tables. See TableList.java

Constructor Detail**DatabaseBController**

```
public DatabaseBController(java.net.Socket listener)
```

Constructor

Parameters:

listener -

Method Detail**addTable**

```
public static boolean addTable(int tabNum,  
                               int maxOccupancy)
```

Adds table to the list of tables

Parameters:

tabNum -- table number you wish to add

maxOccupancy -- max amount of people that can fit at the table

Returns:

true on success, false on failure

run

```
public void run()
```

Each request will get its own thread. This will be used to send the host the list of tables

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

main

```
public static void main(java.lang.String[] args)
```

Starts base thread for DB B

Parameters:

args -

generateTables

```
public static void generateTables()
```

Used for testing

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databaseB

Class Table

`java.lang.Object`
databaseB.Table

```
public class Table
extends java.lang.Object
```

Table is a data structure that is used to represent a table. It will hold the table's table number, status, max occupancy, as well as the name of the waiter who is taking care of this table.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
int	<code>maxOccupancy</code> How many people can sit at this table
char	<code>status</code> Status of table: r=ready, p=paid, s=seated
int	<code>tableNumber</code> Table number
<code>java.util.Date</code>	<code>timeLastSat</code> Time table was last sat.
<code>java.lang.String</code>	<code>waiter</code> Waiter who has this table

Constructor Summary

Constructors

Constructor and Description

```
Table(int tableNumber, int maxOccupancy)
```

Constructor - automatically initializes the status to ready

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
-------------------	------------------------

boolean	changeStatus (char status) Changes the tables status to the specified status
boolean	seat (java.lang.String waiter) Seats the table with the waiter specified.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait

Field Detail

timeLastSat

public java.util.Date timeLastSat

Time table was last sat.

tableNumber

public int tableNumber

Table number

status

public char status

Status of table: r=ready, p=paid, s=seated

waiter

public java.lang.String waiter

Waiter who has this table

maxOccupancy

```
public int maxOccupancy
```

How many people can sit at this table

Constructor Detail**Table**

```
public Table(int tableNumber,  
            int maxOccupancy)
```

Constructor - automatically initializes the status to ready

Parameters:

tableNumber - = table number of table to be created

maxOccupancy - = the amount of guests taht can sit at this table at once

Method Detail

seat

```
public boolean seat(java.lang.String waiter)
```

Seats the table with the waiter specified.

Parameters:

waiter -- name of the waiter who will get this table

Returns:

true on success, false if the table is not ready to be sat

changeStatus

```
public boolean changeStatus(char status)
```

Changes the tables status to the specified status

Parameters:

status -

Returns:

true on success, false if invalid status entered

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databaseB

Class TableList

`java.lang.Object`
databaseB.TableList

```
public class TableList
extends java.lang.Object
```

Data structure to hold the list of tables for the restaurant

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
-------------------	-----------------------

<code>java.util.HashMap<java.lang.Integer, Table> hm</code>	Links Table Number to Table's info
--	------------------------------------

Constructor Summary

Constructors

Constructor and Description

<code>TableList()</code>	Constructor to make empty list of tables
--------------------------	--

Method Summary

Methods inherited from class `java.lang.Object`

<code>equals, getClass, hashCode, notify, notifyAll, toString, wait, wait</code>
--

Field Detail

hm

```
public java.util.HashMap<java.lang.Integer,Table> hm
```

Links Table Number to Table's info

Constructor Detail

TableList

```
public TableList()
```

Constructor to make empty list of tables

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Database C Package

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dataBaseC

Class DatabaseCController

```
java.lang.Object
    java.lang.Thread
        DataBaseC.DatabaseCController
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class DataBaseCController
extends java.lang.Thread
```

Starts the DB C. Chef will use this to continually update the inventory by giving it the name of the dish it started. This will also update the chef when low inventory is met. Waiter will use this when logging on to get the menu.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields

Modifier and Type	Field and Description
static com.google.gson.Gson	jsonConverter Used to convert java objects to JSON format and vice versa.

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

DatabaseCController(java.net.Socket listener)

Constructor

Method Summary

All Methods **Static Methods** **Instance Methods** **Concrete Methods**

Modifier and Type

Method and Description

static int **addDishToMenu**(java.lang.String type,
java.lang.String dishname, double price)
Adds a dish to the menu

boolean **addIngredientToInventory**(java.lang.String ingredientName,
java.lang.Double amountLeft,
java.lang.String unitOfAmount,
java.lang.Double threshold)
Adds ingredient to inventory returns false if ingredient already exists

static void **generateDishes**()

Used for Testing.

static void **main**(java.lang.String[] args)

Starts the Database C base thread.

void **run**()

Starts a new thread for the DB B controller so it can communicate with one tablet on one thread.

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy,
dumpStack, enumerate, getAllStackTraces, getContextClassLoader,
getDefaultUncaughtExceptionHandler, getId, getName, getPriority,
getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler,
holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join,
join, join, resume, setContextClassLoader, setDaemon,
setDefaultUncaughtExceptionHandler, setName, setPriority,
setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend,
toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

jsonConverter

```
public static com.google.gson.Gson jsonConverter
```

Used to convert java objects to JSON format and vice versa.

Constructor Detail

DatabaseCController

```
public DatabaseCController(java.net.Socket listener)
```

Constructor

Parameters:

listener -- socket that this controller will be using

Method Detail

addIngredientToInventory

```
public boolean addIngredientToInventory(java.lang.String ingredientName,  
                                         java.lang.Double amountLeft,  
                                         java.lang.String unitOfAmount,  
                                         java.lang.Double threshold)
```

Adds ingredient to inventory returns false if ingredient already exists

Parameters:

ingredientName -- name of ingredient to add to inventory

amountLeft -- amount of ingredient you have at the time

unitOfAmount -- unit that the amountLeft is measured in

threshold-- the amount at which you wish to be notified when inventory is low for this ingredient if you put it a threshold>=amount left or threshold = 0 then this will fail

Returns:

true on success, false on failure

run

```
public void run()
```

Starts a new thread for the DB B controller so it can communicate with one tablet on one thread.
Reads the socket in to determine the request and responds accordingly.

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

main

```
public static void main(java.lang.String[] args)
```

Starts the Database C base thread.

Parameters:

args -

addDishtoMenu

```
public static int addDishtoMenu(java.lang.String type,  
                               java.lang.String dishname,  
                               double price)
```

Adds a dish to the menu

Parameters:

type -- type of dish. (Appetizer, Dessert, Entree)

dishname -- name of the dish.

price -- price of the dish.

Returns:

0 on success and -1 on failure/duplicate dish

generateDishes

```
public static void generateDishes()
```

Used for Testing.

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dataBaseC

Class Dish

java.lang.Object
 dataBaseC.Dish

```
public class Dish
extends java.lang.Object
```

Data structure to hold dish name, price, and status. Used by waiter, chef, and Database C

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
java.lang.String	name Name of the dish
double	price price of the dish
java.lang.String	typeOfDish Type of dish Example: Appetizer, Entree, Dessert, Drink

Constructor Summary

Constructors

Constructor and Description

Dish(java.lang.String name, double price, java.lang.String typeOfDish)
Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
int	<code>changeStatus (char newStatus)</code> Changes the status of the dish
char	<code>getStatus ()</code> returns status of dish
Dish	<code>makeCopyOfDish ()</code> Makes a copy of the dish that called it

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Field Detail**name**

`public java.lang.String name`

Name of the dish

price

`public double price`

price of the dish

typeOfDish

`public java.lang.String typeOfDish`

Type of dish Example: Appetizer, Entree, Dessert, Drink

Constructor Detail**Dish**

```
public Dish(java.lang.String name,  
          double price,  
          java.lang.String typeOfDish)
```

Constructor

Parameters:

name -- name of dish

price -- price of dish

typeOfDish -- Type of dish Example: Appetizer, Entree, Dessert, Drink

Method Detail

makeCopyOfDish

```
public Dish makeCopyOfDish()
```

Makes a copy of the dish that called it

Returns:

a copy of the dish d

changeStatus

```
public int changeStatus(char newStatus)
```

Changes the status of the dish

Parameters:

newStatus -

Returns:

0 on success -2 on failure

getStatus

```
public char getStatus()
```

returns status of dish

Returns:

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dataBaseC

Class DishData

`java.lang.Object`
 dataBaseC.DishData

```
public class DishData
extends java.lang.Object
```

This class is used to hold the ingredients of one dish on the menu. It will hold the ingredients and the name of the dish. The Database C holds these so instead of having multiple copies of one dish with all of its ingredients we have each Dish's name linked to a DishData which will hold the info of that dish. This lowers data usage.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
double	price Price of dish

Constructor Summary

Constructors

Constructor and Description

`DishData(java.lang.String dishName)`

Creates a dish data with the name dishName.

Method Summary

[All Methods](#) [Instance Methods](#) [Concrete Methods](#)

Modifier and Type	Method and Description
--------------------------	-------------------------------

boolean	addIngredient(Ingredient ingredientData)
	Adds Ingredient to this Dishdata
double	getAmount(java.lang.String ing)
	Gets the amount of ingredient that is used by this dish.
java.lang.String[]	getListOfIngredients()
	Returns the ingredients used in this dish.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait

Field Detail

price

public double price

Price of dish

Constructor Detail

DishData

public DishData(java.lang.String dishName)

Creates a dish data with the name dishName. Makes an empty list of ingredients. Use addIngredient to add to this dish data

Method Detail

addIngredient

public boolean addIngredient(Ingredient ingredientData)

Adds Ingredient to this Dishdata

Parameters:

ingredientName-- name of ingredient

ingredientData -- Ingredient obect

Returns:

true on success, false if that ingredient was already added

getAmount

```
public double getAmount(java.lang.String ing)
```

Gets the amount of ingredient that is used by this dish.

Parameters:

ing -- ingredient name

Returns:

amount the dish uses, -1.0 if that ingredient is not in the dish

getListOfIngredients

```
public java.lang.String[] getListOfIngredients()
```

Returns the ingredients used in this dish.

Returns:

ingredients used in this dish as an array.

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dataBaseC

Class Ingredient

java.lang.Object
 dataBaseC.Ingredient

```
public class Ingredient
extends java.lang.Object
```

Data structure to hold each ingredient's data. Used by Database C to keep track of inventory. Only have one object for each ingredient to keep memory usage low.

Author:

cms549

Constructor Summary

Constructors

Constructor and Description

`Ingredient(java.lang.String ingredientName, java.lang.Double amountLeft,
java.lang.String unitOfAmount, java.lang.Double threshold)`

creates new ingredient

Method Summary

[All Methods](#) [Instance Methods](#) [Concrete Methods](#)

Modifier and Type **Method and Description**

java.lang.Double	<code>checkThreshold()</code>
	Gets the difference of the amount left in the inventory and the threshold
java.lang.Double	<code>decrementAmountBy(java.lang.Double amount)</code>
	Decrement this ingredient amount by the amount specified

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructor Detail

Ingredient

```
public Ingredient(java.lang.String ingredientName,  
                  java.lang.Double amountLeft,  
                  java.lang.String unitOfAmount,  
                  java.lang.Double threshold)
```

creates new ingredient

Parameters:

ingredientName -
amountLeft -
unitOfAmount -
threshold -

Method Detail

checkThreshold

```
public java.lang.Double checkThreshold()
```

Gets the difference of the amount left in the inventory and the threshold

Returns:

the amount until this ingredient reaches its threshold, null on failure

decrementAmountBy

```
public java.lang.Double decrementAmountBy(java.lang.Double amount)
```

Decrement this ingredient amount by the amount specified

Parameters:

amount - to decrement this ingredient by

Returns:

the amount left in the inventory on success, null on failure

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dataBaseC

Class Menu

java.lang.Object
 dataBaseC.Menu

```
public class Menu
extends java.lang.Object
```

Data structure that holds the menu of dishes.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
java.util.HashMap<java.lang.String, java.util.HashMap<java.lang.String, Dish >>	menu First String maps category (Drink, App, Entree, Dessert) to a map Inner map maps dish name to dish

Constructor Summary

Constructors

Constructor and Description

Menu()

Constructor for empty menu.

Method Summary**Methods inherited from class java.lang.Object**

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail**menu**

public java.util.HashMap<java.lang.String,java.util.HashMap<java.lang.String,Dish>> menu

First String maps category (Drink, App, Entree, Dessert) to a map Inner map maps dish name to dish

Constructor Detail**Menu**

public Menu()

Constructor for empty menu.

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dataBaseC

Class Ticket

`java.lang.Object`
 dataBaseC.Ticket

```
public class Ticket
extends java.lang.Object
```

Data structure to hold the ticket and the data associated with it. Used by waiter and chef.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
int	<code>amountOfDishes</code>
int	<code>amountOfDishesFinished</code>
int	<code>amountOfDishesStarted</code>
int	<code>amountOfDishesUnstarted</code>
boolean	<code>hotFood</code> Used to keep track of hot food tables for waiters
<code>java.util.ArrayList<Dish></code>	<code>listOfDishes</code> List of dishes on the ticket
double	<code>price</code> total price of ticket
boolean	<code>recentlySat</code> Used to keep track of recently sat tables for waiters
char	<code>status</code> status of ticket: u=unstarted, s=semi started, S=started, f=finished

int	tableNumber
	table number this order belongs to
long	ticketNumber
	unique id of ticket
long	waiterID
	id of waiter this ticket belongs to
java.lang.String	waiterName
	name of waiter this ticket is under

Constructor Summary

Constructors

Constructor and Description

Ticket(java.lang.String waiterName, int tableNum, long waiterID)

Creates a new empty ticket with the following

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
void	addDishToTicket(Dish d) Adds dish to ticket and also updates price and status of ticket
boolean	removeDishFromTicket(int indexOfDishInTickList) Removes the dish at index i from the ticket and decrements the price
char	updateStatusOfTicket() Looks through the dishes of the ticket and updates the status of the ticket accordingly

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait

Field Detail

tableNumber

```
public int tableNumber
```

table number this order belongs to

waiterName

```
public java.lang.String waiterName
```

name of waiter this ticket is under

waiterID

```
public long waiterID
```

id of waiter this ticket belongs to

status

```
public char status
```

status of ticket: u=unstarted, s=semi started, S=started, f=finished

listOfDishes

```
public java.util.ArrayList<Dish> listOfDishes
```

List of dishes on the ticket

ticketNumber

```
public long ticketNumber
```

unique id of ticket

price

```
public double price
```

total price of ticket

amountOfDishesUnstarted

```
public int amountOfDishesUnstarted
```

amountOfDishesStarted

```
public int amountOfDishesStarted
```

amountOfDishesFinished

```
public int amountOfDishesFinished
```

amountOfDishes

```
public int amountOfDishes
```

recentlySat

```
public boolean recentlySat
```

Used to keep track of recently sat tables for waiters

hotFood

```
public boolean hotFood
```

Used to keep track of hot food tables for waiters

Constructor Detail**Ticket**

```
public Ticket(java.lang.String waiterName,  
             int tableNum,  
             long waiterID)
```

Creates a new empty ticket with the following

Parameters:

waiterName -- name of waiter for this ticket

tableNum -- table number the ticket is under

waiterID -- id of the waiter

Method Detail

addDishToTicket

```
public void addDishToTicket(Dish d)
```

Adds dish to ticket and also updates price and status of ticket

Parameters:

d -

removeDishFromTicket

```
public boolean removeDishFromTicket(int indexOfDishInTickList)
```

Removes the dish at index i from the ticket and decrements the price

Parameters:

indexOfDishInTickList -

Returns:**updateStatusOfTicket**

```
public char updateStatusOfTicket()
```

Looks through the dishes of the ticket and updates the status of the ticket accordingly

Returns:

old status of ticket

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host

Class HostInterface

java.lang.Object

host.HostInterface

```
public class HostInterface
extends java.lang.Object
```

Controls the jpanels being displayed and all the data for the host. The host interface keeps track of all of the tables in the restaurant.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
boolean	loggedIn When this is true it returns from back to log in page
HostMessageSender	sender Used to send messages to message controller

Constructor Summary

Constructors

Constructor and Description

HostInterface(javax.swing.JFrame frame, long eID, java.lang.String empName)
Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
void	addNotification (java.lang.String content) Adds a notification on current screen by calling another method in panel
void	cleaned (int tableNumber) Move a table that was just cleaned from paid into ready list
void	notifyManager () Sends a notification to the manager
void	paid (int tableNumber) Moves seated table to paid
void	runUntilLogOut () Keeps tablet in host interface screen until it logs out.
void	seat (java.lang.String waiterName, int tableNumber) Seat the table number with this server
void	sendSeated (long waiterId, int tableNumber) Sends a message to the waiter whos table you just sat.
void	updateScreen () Updates the current panel - makes them redraw all the buttons

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait

Field Detail**sender**

public HostMessageSender sender

Used to send messages to message controller

loggedIn

public boolean loggedIn

When this is true it returns from back to log in page

Constructor Detail

HostInterface

```
public HostInterface(javax.swing.JFrame frame,  
                     long eID,  
                     java.lang.String empName)
```

Constructor

Parameters:

frame -- JFrame of the app
eID -- host's employee id
empName -- host's employee name

Method Detail

notifyManager

```
public void notifyManager()
```

Sends a notification to the manager

seat

```
public void seat(java.lang.String waiterName,  
                 int tableNumber)
```

Seat the table number with this server

Parameters:

waiterName --
tableNumber --

sendSeated

```
public void sendSeated(long waiterId,  
                      int tableNumber)
```

Sends a message to the waiter whos table you just sat.

Parameters:

waiterId -- id of waiter you wish to send message to

tableNumber -- table you just sat

addNotification

```
public void addNotification(java.lang.String content)
```

Adds a notification on current screen by calling another method in panel

Parameters:

content -

runUntilLogOut

```
public void runUntilLogOut()
```

Keeps tablet in host interface screen until it logs out. Then sends log out message to MC.

updateScreen

```
public void updateScreen()
```

Updates the current panel - makes them redraw all the buttons

paid

```
public void paid(int tableNumber)
```

Moves seated table to paid

Parameters:

tableNumber -- table number that paid

cleaned

```
public void cleaned(int tableNumber)
```

Move a table that was just cleaned from paid into ready list

Parameters:

tableNumber -

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host

Class HostMessageListener

java.lang.Object
 java.lang.Thread
 host.HostMessageListener

All Implemented Interfaces:

java.lang.Runnable

```
public class HostMessageListener
extends java.lang.Thread
```

Listens for and decodes the messages from the Message Controller to the host.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class `java.lang.Thread`

`java.lang.Thread.State`, `java.lang.Thread.UncaughtExceptionHandler`

Field Summary

Fields inherited from class `java.lang.Thread`

`MAX_PRIORITY`, `MIN_PRIORITY`, `NORM_PRIORITY`

Constructor Summary

Constructors

Constructor and Description

`HostMessageListener`(`java.net.Socket` listener, long empID, `HostInterface` hI)
Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

void **run()**

Listens for messages sent from the MC

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

HostMessageListener

```
public HostMessageListener(java.net.Socket listener,  
                           long empID,  
                           HostInterface hI)
```

Constructor

Parameters:

listener -- socket this will be listening to
empID -- id of the host
hI -- host interface

Method Detail

run

```
public void run()
```

Listens for messages sent from the MC

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

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host

Class HostMessageSender

java.lang.Object

host.HostMessageSender

```
public class HostMessageSender
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description

HostMessageSender(java.net.Socket listener, long empID)

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type

Method and Description

void

sendMessage(Message m)

Sends a message to message controller to be forwarded.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

HostMessageSender

```
public HostMessageSender(java.net.Socket listener,
                        long empID)
```

Constructor

Parameters:

listener -- socket to use
empID -- host's employee id

Method Detail

sendMessage

```
public void sendMessage(Message m)
```

Sends a message to message controller to be forwarded. Automatically fills in sender info with host position and employee id.

Parameters:

m --

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host

Class HostTableScreen

```
java.lang.Object
  java.awt.Component
    java.awt.Container
      javax.swing.JComponent
        javax.swing.JPanel
          host.HostTableScreen
```

All Implemented Interfaces:

```
java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable,
javax.accessibility.Accessible
```

```
public class HostTableScreen
extends javax.swing.JPanel
```

Panel that shows the two lists of tables. One that is ready (can be seated). This is in green. And one that is not ready. In this list, first the tables that are paid are listed (in yellow) these must be cleaned soon. Then the seated tables are listed (in red).

Author:

cms549

See Also:

[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JComponent

```
javax.swing.JComponent.AccessibleJComponent
```

Nested classes/interfaces inherited from class java.awt.Component

```
java.awt.Component.BaselineResizeBehavior
```

Field Summary

Fields

Modifier and Type	Field and Description
<code>HostInterface</code>	<code>hi</code>
<code>Table</code>	<code>tableSelected</code> This is the current table selected by the host
<code>java.lang.String</code>	<code>waiterSelected</code> This is the current waiter selected by the host

Fields inherited from class javax.swing.JComponent

`TOOL_TIP_TEXT_KEY, UNDEFINED_CONDITION, WHEN_ANCESTOR_OF_FOCUSED_COMPONENT, WHEN_FOCUSED, WHEN_IN_FOCUSED_WINDOW`

Fields inherited from class java.awt.Component

`BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT`

Fields inherited from interface java.awt.image.ImageObserver

`ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH`

Constructor Summary

Constructors

Constructor and Description

`HostTableScreen (HostInterface hI)`

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
<code>void</code>	<code>makeNotification (java.lang.String content)</code> makes a notification button on top of screen like banner once it is clicked it closes it

```
void           updateScreen ()  
Redraw the host screen
```

Methods inherited from class javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

Methods inherited from class javax.swing.JComponent

addAncestorListener, addNotify, addVetoableChangeListener,
computeVisibleRect, contains, createToolTip, disable, enable,
firePropertyChange, firePropertyChange, firePropertyChange,
getActionForKeyStroke, getActionMap, getAlignmentX, getAlignmentY,
getAncestorListeners, getAutoscrolls, getBaseline,
getBaselineResizeBehavior, getBorder, getBounds, getClientProperty,
getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions,
getDefaultLocale, getFontMetrics, getGraphics, getHeight,
getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets,
getInsets, getListeners, getLocation, getMaximumSize, getMinimumSize,
getNextFocusableComponent, getPopupLocation, getPreferredSize,
getRegisteredKeyStrokes, getRootPane, getSize, getToolTipLocation,
getToolTipText, getToolTipText, getTopLevelAncestor, getTransferHandler,
getVerifyInputWhenFocusTarget, getVetoableChangeListeners, getVisibleRect,
getWidth, getX, getY, grabFocus, hide, isDoubleBuffered,
isLightweightComponent, isManagingFocus, isOpaque,
isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingTile,
isRequestFocusEnabled, isValidateRoot, paint, paintImmediately,
paintImmediately, print, printAll, putClientProperty,
registerKeyboardAction, registerKeyboardAction, removeAncestorListener,
removeNotify, removeVetoableChangeListener, repaint, repaint,
requestDefaultFocus, requestFocus, requestFocus, requestFocusInWindow,
resetKeyboardActions, reshape, revalidate, scrollRectToVisible,
setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground,
setBorder, setComponentPopupMenu, setDebugGraphicsOptions, setDefaultLocale,
setDoubleBuffered, setEnabled, setFocusTraversalKeys, setFont,
setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier,
setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque,
setPreferredSize, setRequestFocusEnabled, setToolTipText,
setTransferHandler, setVerifyInputWhenFocusTarget, setVisible,
unregisterKeyboardAction, update

Methods inherited from class java.awt.Container

add, add, add, add, add, addContainerListener, addPropertyChangeListener,
addPropertyChangeListener, applyComponentOrientation,
areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout,
findComponentAt, findComponentAt, getComponent, getComponentAt,

```
getComponentAt, getComponentCount, getComponents, getComponentZOrder,
getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy,
getLayout, getMousePosition, insets, invalidate, isAncestorOf,
isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider,
isFocusTraversalPolicySet, layout, list, list, locate, minimumSize,
paintComponents, preferredSize, printComponents, remove, remove, removeAll,
removeContainerListener, setComponentZOrder, setFocusCycleRoot,
setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setLayout,
transferFocusDownCycle, validate
```

Methods inherited from class `java.awt.Component`

```
action, add, addComponentListener, addFocusListener,
addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener,
addKeyListener, addMouseListener, addMouseMotionListener,
addMouseWheelListener, bounds, checkImage, checkImage, contains,
createImage, createImage, createVolatileImage, createVolatileImage,
dispatchEvent, enable, enableInputMethods, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange,
firePropertyChange, getBackground, getBounds, getColorModel,
getComponentListeners, getComponentOrientation, getCursor, getDropTarget,
getFocusCycleRootAncestor, getFocusListeners, getFocusTraversalKeysEnabled,
getFont, getForeground, getGraphicsConfiguration,
getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint,
getInputContext, getInputMethodListeners, getInputMethodRequests,
getKeyListeners, getLocale, getLocation, getLocationOnScreen,
getMouseListeners, getMouseMotionListeners, getMousePosition,
getMouseWheelListeners, getName, getParent, getPeer,
getPropertyChangeListeners, getPropertyChangeListeners, getSize, getToolkit,
getTreeLock, gotFocus, handleEvent, hasFocus, imageUpdate, inside,
isBackgroundSet, isCursorSet, isDisplayable, isEnabled, isFocusable,
isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight,
isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isShowing, isValid,
isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown,
mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus,
paintAll, postEvent, prepareImage, prepareImage, remove,
removeComponentListener, removeFocusListener, removeHierarchyBoundsListener,
removeHierarchyListener, removeInputMethodListener, removeKeyListener,
removeMouseListener, removeMouseMotionListener, removeMouseWheelListener,
removePropertyChangeListener, removePropertyChangeListener, repaint,
repaint, repaint, resize, resize, setBounds, setBounds,
setComponentOrientation, setCursor, setDropTarget, setFocusable,
setFocusTraversalKeysEnabled, setIgnoreRepaint, setLocale, setLocation,
setLocation, setName, setSize, setSize, show, show, size, toString,
transferFocus, transferFocusBackward, transferFocusUpCycle
```

Methods inherited from class `java.lang.Object`

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Field Detail

hi

```
public HostInterface hi
```

tableSelected

```
public Table tableSelected
```

This is the current table selected by the host

waiterSelected

```
public java.lang.String waiterSelected
```

This is the current waiter selected by the host

Constructor Detail

HostTableScreen

```
public HostTableScreen(HostInterface hI)
```

Constructor

Parameters:

hI -- host interface

Method Detail

updateScreen

```
public void updateScreen()
```

Redraw the host screen

makeNotification

```
public void makeNotification(java.lang.String content)
```

makes a notification button on top of screen like banner once it is clicked it closes it

Parameters:

content -- message to be displayed

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Logging In Package

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loggingIn

Class LogInScreen

```
java.lang.Object
  java.awt.Component
    java.awt.Container
      javax.swing.JComponent
        javax.swing.JPanel
          loggingIn.LogInScreen
```

All Implemented Interfaces:

```
java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable,
javax.accessibility.Accessible
```

```
public class LogInScreen
extends javax.swing.JPanel
```

Log in screen Panel.

Author:

cms549

See Also:

[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JComponent

```
javax.swing.JComponent.AccessibleJComponent
```

Nested classes/interfaces inherited from class java.awt.Component

```
java.awt.Component.BaselineResizeBehavior
```

Field Summary

Fields

Modifier and Type	Field and Description

long	currIDEntry
	Holds what user is currently typing
int	dataBaseAPortNumber
java.lang.String	dataBaseAServerName
java.lang.String	empName
	Name of employee you are logged in as.
boolean	keypadLock
	Disables the keypad when log in has been pressed.
char	loggedIn
	loggedIn Tells you who you are logged in as.

Fields inherited from class javax.swing.JComponent

TOOL_TIP_TEXT_KEY, UNDEFINED_CONDITION, WHEN_ANCESTOR_OF_FOCUSED_COMPONENT, WHEN_FOCUSED, WHEN_IN_FOCUSED_WINDOW

Fields inherited from class java.awt.Component

BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT

Fields inherited from interface java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

Constructor Summary

Constructors

Constructor and Description

LogInScreen ()

Creates the log in screen panel

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type

Method and Description

```
void logOut(long empID)
Tell DB A that employee with ID id is logging out
```

Methods inherited from class javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

Methods inherited from class javax.swing.JComponent

```
addAncestorListener, addNotify, addVetoableChangeListener,
computeVisibleRect, contains, createToolTip, disable, enable,
firePropertyChange, firePropertyChange, firePropertyChange,
getActionForKeyStroke, getActionMap, getAlignmentX, getAlignmentY,
getAncestorListeners, getAutoscrolls, getBaseline,
getBaselineResizeBehavior, getBorder, getBounds, getClientProperty,
getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions,
getDefaultLocale, getFontMetrics, getGraphics, getHeight,
getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets,
getInsets, getListeners, getLocation, getMaximumSize, getMinimumSize,
getNextFocusableComponent, getPopupLocation, getPreferredSize,
getRegisteredKeyStrokes, getRootPane, getSize, getToolTipLocation,
getToolTipText, getToolTipText, getTopLevelAncestor, getTransferHandler,
getVerifyInputWhenFocusTarget, getVetoableChangeListeners, getVisibleRect,
getWidth, getX, getY, grabFocus, hide, isDoubleBuffered,
isLightweightComponent, isManagingFocus, isOpaque,
isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingTile,
isRequestFocusEnabled, isValidateRoot, paint, paintImmediately,
paintImmediately, print, printAll, putClientProperty,
registerKeyboardAction, registerKeyboardAction, removeAncestorListener,
removeNotify, removeVetoableChangeListener, repaint, repaint,
requestDefaultFocus, requestFocus, requestFocus, requestFocusInWindow,
resetKeyboardActions, reshape, revalidate, scrollRectToVisible,
setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground,
setBorder, setComponentPopupMenu, setDebugGraphicsOptions, setDefaultLocale,
setDoubleBuffered, setEnabled, setFocusTraversalKeys, setFont,
setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier,
setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque,
setPreferredSize, setRequestFocusEnabled, setToolTipText,
setTransferHandler, setVerifyInputWhenFocusTarget, setVisible,
unregisterKeyboardAction, update
```

Methods inherited from class java.awt.Container

```
add, add, add, add, add, addContainerListener, addPropertyChangeListener,
addPropertyChangeListener, applyComponentOrientation,
areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout,
findComponentAt, findComponentAt, getComponent, getComponentAt,
```

```
getComponentAt, getComponentCount, getComponents, getComponentZOrder,
getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy,
getLayout, getMousePosition, insets, invalidate, isAncestorOf,
isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider,
isFocusTraversalPolicySet, layout, list, list, locate, minimumSize,
paintComponents, preferredSize, printComponents, remove, remove, removeAll,
removeContainerListener, setComponentZOrder, setFocusCycleRoot,
setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setLayout,
transferFocusDownCycle, validate
```

Methods inherited from class java.awt.Component

```
action, add, addComponentListener, addFocusListener,
addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener,
addKeyListener, addMouseListener, addMouseMotionListener,
addMouseWheelListener, bounds, checkImage, checkImage, contains,
createImage, createImage, createVolatileImage, createVolatileImage,
dispatchEvent, enable, enableInputMethods, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange,
firePropertyChange, getBackground, getBounds, getColorModel,
getComponentListeners, getComponentOrientation, getCursor, getDropTarget,
getFocusCycleRootAncestor, getFocusListeners, getFocusTraversalKeysEnabled,
getFont, getForeground, getGraphicsConfiguration,
getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint,
getInputContext, getInputMethodListeners, getInputMethodRequests,
getKeyListeners, getLocale, getLocation, getLocationOnScreen,
getMouseListeners, getMouseMotionListeners, getMousePosition,
getMouseWheelListeners, getName, getParent, getPeer,
getPropertyChangeListeners, getPropertyChangeListeners, getSize, getToolkit,
getTreeLock, gotFocus, handleEvent, hasFocus, imageUpdate, inside,
isBackgroundSet, isCursorSet, isDisplayable, isEnabled, isFocusable,
isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight,
isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isShowing, isValid,
isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown,
mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus,
paintAll, postEvent, prepareImage, prepareImage, remove,
removeComponentListener, removeFocusListener, removeHierarchyBoundsListener,
removeHierarchyListener, removeInputMethodListener, removeKeyListener,
removeMouseListener, removeMouseMotionListener, removeMouseWheelListener,
removePropertyChangeListener, removePropertyChangeListener, repaint,
repaint, repaint, resize, resize, setBounds, setBounds,
setComponentOrientation, setCursor, setDropTarget, setFocusable,
setFocusTraversalKeysEnabled, setIgnoreRepaint, setLocale, setLocation,
setLocation, setName, setSize, setSize, show, show, size, toString,
transferFocus, transferFocusBackward, transferFocusUpCycle
```

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Field Detail

dataBaseAServerName

```
public final java.lang.String dataBaseAServerName
```

dataBaseAPortNumber

```
public final int dataBaseAPortNumber
```

keypadLock

```
public boolean keypadLock
```

Disables the keypad when log in has been pressed. Acts as a mutex.

loggedin

```
public char loggedIn
```

loggedin Tells you who you are logged in as. 'o' = no one 'h' = host 'm' = manager 'w'= waiter 'c' = chef

empName

```
public java.lang.String empName
```

Name of employee you are logged in as.

currIDEntry

```
public long currIDEntry
```

Holds what user is currently typing

Constructor Detail

LogInScreen

```
public LogInScreen()
```

Creates the log in screen panel

Method Detail

logOut

```
public void logOut(long empID)
```

Tell DB A that employee with ID id is logging out

Parameters:

empID -- employee id

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loggingIn

Class TabletApp

java.lang.Object
loggingIn.TabletApp

```
public class TabletApp
extends java.lang.Object
```

This will be the base process running on all tablets. It handles logging in and switching to the appropriate screen once logged in.

Author:

cms549

Constructor Summary

Constructors**Constructor and Description**[TabletApp \(\)](#)

Method Summary

All Methods **Static Methods** **Concrete Methods****Modifier and Type****Method and Description**

static void

[main\(java.lang.String\[\] args\)](#)

Starts the log in GUI

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

[TabletApp](#)

```
public TabletApp()
```

Method Detail

main

```
public static void main(java.lang.String[] args)
```

Starts the log in GUI

Parameters:

args -

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Manager Package

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manager

Class ManagerInterface

java.lang.Object

manager.ManagerInterface

```
public class ManagerInterface  
extends java.lang.Object
```

Holds the list of messages that all of the employees sent the manager. Controls this list of messages.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
java.util.LinkedList<Message>	listOfMessages List of messages that manager has received End of list is most recent
boolean	loggedOut When this is true I return from constructor back to log in page
ManagerMessageSender	sender This will be used to send messages to the MC

Constructor Summary

Constructors

Constructor and Description

ManagerInterface(javax.swing.JFrame frame, long eID,
java.lang.String empName)

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
void	<code>addMessageToList(Message m)</code> Adds this message to the list of messages
void	<code>deleteMessage(int index)</code> Delete's the message at the given index in the message list Caller should be sure to check the index is valid.
void	<code>generateMessages()</code>
void	<code>runUntilLogOut()</code> Returns when manager logs out.
void	<code>sendMassNotification(java.lang.String content)</code> Sends a mass notification to all servers, hosts, and chefs
void	<code>updateScreen()</code> Updates the current panel - makes them redraw all the buttons

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Field Detail

listOfMessages

```
public java.util.LinkedList<Message> listOfMessages
```

List of messages that manager has received End of list is most recent

sender

```
public ManagerMessageSender sender
```

This will be used to send messages to the MC

loggedOut

```
public boolean loggedOut
```

When this is true I return from constructor back to log in page

Constructor Detail

ManagerInterface

```
public ManagerInterface(javax.swing.JFrame frame,  
                      long eID,  
                      java.lang.String empName)
```

Constructor

Parameters:

frame -- frame to be used by this application

eID -- manager's employee id

empName -- manager's name

Method Detail

runUntilLogOut

```
public void runUntilLogOut()
```

Returns when manager logs out. Sends a message to the MC to alert it that the manager is logging out.

updateScreen

```
public void updateScreen()
```

Updates the current panel - makes them redraw all the buttons

deleteMessage

```
public void deleteMessage(int index)
```

Delete's the message at the given index in the message list Caller should be sure to check the index is valid.

Parameters:

index -- index of message to be deleted in the list of messages

sendMassNotification

```
public void sendMassNotification(java.lang.String content)
```

Sends a mass notification to all servers, hosts, and chefs

Parameters:

content --

addMessageToList

```
public void addMessageToList(Message m)
```

Adds this message to the list of messages

Parameters:

m -- message to be added

generateMessages

```
public void generateMessages()
```

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manager

Class ManagerMessageListener

```
java.lang.Object
  java.lang.Thread
    manager.ManagerMessageListener
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class ManagerMessageListener
extends java.lang.Thread
```

Used to listen from messages from the message controller and decode them.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

```
ManagerMessageListener(java.net.Socket listener, long empID,
ManagerInterface mI)
```

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

void	run()
	Listens for messages sent from the MC

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

ManagerMessageListener

```
public ManagerMessageListener(java.net.Socket listener,  
                             long empID,  
                             ManagerInterface mI)
```

Constructor

Parameters:

listener -- socket to listen to
empID -- manager's employee id
mI -- manager interface

Method Detail**run**

```
public void run()
```

Listens for messages sent from the MC

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

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manager

Class ManagerMessageSender

```
java.lang.Object
  java.lang.Thread
    manager.ManagerMessageSender
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class ManagerMessageSender
extends java.lang.Thread
```

Used to Send messages to the message controller to be forwarded to the correct employee.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

ManagerMessageSender(java.net.Socket listener, long empID)

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type

Method and Description

void

sendMessage (Message m)

Sends message out to Message controller Automatically will fill in senderInfo with manager's position and id.

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, run, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

ManagerMessageSender

```
public ManagerMessageSender(java.net.Socket listener,  
                           long empID)
```

Constructor

Parameters:

listener -- socket to be used

empID -- manager's employee id

Method Detail

sendMessage

```
public void sendMessage(Message m)
```

Sends message out to Message controller Automatically will fill in senderInfo with manager's position and id.

Parameters:

m -- message to send

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manager

Class ManagerScreen

java.lang.Object

java.awt.Component

java.awt.Container

javax.swing.JComponent

javax.swing.JPanel

manager.ManagerScreen

All Implemented Interfaces:java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable,
javax.accessibility.Accessible

```
public class ManagerScreen  
extends javax.swing.JPanel
```

Panel that is displayed when manager logs on. Shows all of the messages sent by any employees to the manager. Also allows for manager to broadcast a message to all employees.

Author:

cms549

See Also:[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JComponent

javax.swing.JComponent.AccessibleJComponent

Nested classes/interfaces inherited from class java.awt.Component

java.awt.Component.BaselineResizeBehavior

Field Summary

Fields

Modifier and Type	Field and Description
ManagerInterface	mi

Fields inherited from class javax.swing.JComponent

TOOL_TIP_TEXT_KEY, UNDEFINED_CONDITION, WHEN_ANCESTOR_OF_FOCUSED_COMPONENT, WHEN_FOCUSED, WHEN_IN_FOCUSED_WINDOW

Fields inherited from class java.awt.Component

BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT

Fields inherited from interface java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

Constructor Summary

Constructors

Constructor and Description

ManagerScreen (ManagerInterface MI)

Create the panel.

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
void	<code>updateScreen ()</code>

Methods inherited from class javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

Methods inherited from class javax.swing.JComponent

addAncestorListener, addNotify, addVetoableChangeListener, computeVisibleRect, contains, createToolTip, disable, enable,

```
firePropertyChange, firePropertyChange, firePropertyChange,  
getActionForKeyStroke, getActionMap, getAlignmentX, getAlignmentY,  
getAncestorListeners, getAutoscrolls, getBaseline,  
getBaselineResizeBehavior, getBorder, getBounds, getClientProperty,  
getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions,  
getDefaultLocale, getFontMetrics, getGraphics, getHeight,  
getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets,  
getInsets, getListeners, getLocation, getMaximumSize, getMinimumSize,  
getNextFocusableComponent, getPopupLocation, getPreferredSize,  
getRegisteredKeyStrokes, getSize, getToolTipLocation,  
getToolTipText, getToolTipText, getTopLevelAncestor, getTransferHandler,  
getVerifyInputWhenFocusTarget, getVetoableChangeListeners, getVisibleRect,  
getWidth, getX, getY, grabFocus, hide, isDoubleBuffered,  
isLightweightComponent, isManagingFocus, isOpaque,  
isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingTile,  
isRequestFocusEnabled, isValidateRoot, paint, paintImmediately,  
paintImmediately, print, printAll, putClientProperty,  
registerKeyboardAction, registerKeyboardAction, removeAncestorListener,  
removeNotify, removeVetoableChangeListener, repaint, repaint,  
requestDefaultFocus, requestFocus, requestFocus, requestFocusInWindow,  
resetKeyboardActions, reshape, revalidate, scrollRectToVisible,  
setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground,  
setBorder, setComponentPopupMenu, setDebugGraphicsOptions, setDefaultLocale,  
setDoubleBuffered, setEnabled, setFocusTraversalKeys, setFont,  
setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier,  
setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque,  
setPreferredSize, setRequestFocusEnabled, setToolTipText,  
setTransferHandler, setVerifyInputWhenFocusTarget, setVisible,  
unregisterKeyboardAction, update
```

Methods inherited from class java.awt.Container

```
add, add, add, add, add, addContainerListener, addPropertyChangeListener,  
addPropertyChangeListener, applyComponentOrientation,  
areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout,  
findComponentAt, findComponentAt, getComponent, getComponentAt,  
getComponentAt, getComponentCount, getComponents, getComponentZOrder,  
getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy,  
getLayout, getMousePosition, insets, invalidate, isAncestorOf,  
isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider,  
isFocusTraversalPolicySet, layout, list, list, locate, minimumSize,  
paintComponents, preferredSize, printComponents, remove, remove, removeAll,  
removeContainerListener, setComponentZOrder, setFocusCycleRoot,  
setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setLayout,  
transferFocusDownCycle, validate
```

Methods inherited from class java.awt.Component

```
action, add, addComponentListener, addFocusListener,
addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener,
addKeyListener, addMouseListener, addMouseMotionListener,
addMouseWheelListener, bounds, checkImage, checkImage, contains,
createImage, createImage, createVolatileImage, createVolatileImage,
dispatchEvent, enable, enableInputMethods, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange,
firePropertyChange, getBackground, getBounds, getColorModel,
getComponentListeners, getComponentOrientation, getCursor, getDropTarget,
getFocusCycleRootAncestor, getFocusListeners, getFocusTraversalKeysEnabled,
getFont, getForeground, getGraphicsConfiguration,
getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint,
getInputContext, getInputMethodListeners, getInputMethodRequests,
getKeyListeners, getLocale, getLocation, getLocationOnScreen,
getMouseListeners, getMouseMotionListeners, getMousePosition,
getMouseWheelListeners, getName, getParent, getPeer,
getPropertyChangeListeners, getPropertyChangeListeners, getSize, getToolkit,
getTreeLock, gotFocus, handleEvent, hasFocus, imageUpdate, inside,
isBackgroundSet, isCursorSet, isDisplayable, isEnabled, isFocusable,
isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight,
isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isShowing, isValid,
isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown,
mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus,
paintAll, postEvent, prepareImage, prepareImage, remove,
removeComponentListener, removeFocusListener, removeHierarchyBoundsListener,
removeHierarchyListener, removeInputMethodListener, removeKeyListener,
removeMouseListener, removeMouseMotionListener, removeMouseWheelListener,
removePropertyChangeListener, removePropertyChangeListener, repaint,
repaint, repaint, resize, resize, setBounds, setBounds,
setComponentOrientation, setCursor, setDropTarget, setFocusable,
setFocusTraversalKeysEnabled, setIgnoreRepaint, setLocale, setLocation,
setLocation, setName, setSize, setSize, show, show, size, toString,
transferFocus, transferFocusBackward, transferFocusUpCycle
```

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Field Detail

mi

```
public ManagerInterface mi
```

Constructor Detail

ManagerScreen

```
public ManagerScreen(ManagerInterface MI)
```

Create the panel.

Parameters:

waiterInterface -

Method Detail

updateScreen

```
public void updateScreen()
```

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Message Controller Package

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messageController

Class Message

`java.lang.Object`
messageController.Message

```
public class Message
extends java.lang.Object
```

Data structure used to represent a message. Used for communication between tablets. Consists of sender info which lets the MC know who is sending the message and Receiver info which lets the MC know who to send the message to.

Author:

cms549

Field Summary

Fields

Modifier and Type	Field and Description
<code>java.lang.String</code>	<code>content</code> Actual message to be forwarded
<code>long</code>	<code>receiverEmpID</code> Receiver info: employee's unique id
<code>char</code>	<code>receiverPosition</code> Receiver info: position of employee
<code>long</code>	<code>senderEmpID</code> Sender info: employee's unique id
<code>char</code>	<code>senderPosition</code> Sender info: position of employee

Constructor Summary

Constructors

Constructor and Description

Message ()

Empty constructor

Message (char recPos, long recID, java.lang.String mess)

Creates a new message

Method Summary

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type

Method and Description

static **Message** **fromString**(java.lang.String string)

java.lang.String **toString()**

Makes the message into a string so it can be sent over a socket.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

senderPosition

public char senderPosition

Sender info: position of employee

senderEmpID

public long senderEmpID

Sender info: employee's unique id

receiverPosition

public char receiverPosition

Receiver info: position of employee

receiverEmpID

```
public long receiverEmpID
```

Receiver info: employee's unique id

content

```
public java.lang.String content
```

Actual message to be forwarded

Constructor Detail**Message**

```
public Message(char recPos,  
              long recID,  
              java.lang.String mess)
```

Creates a new message

Parameters:

recPos -- receiver's position
recID -- receiver's employee id
mess --

Message

```
public Message()
```

Empty constructor

Method Detail

toString

```
public java.lang.String toString()
```

Makes the message into a string so it can be sent over a socket.

Overrides:

toString in class java.lang.Object

fromString

```
public static Message fromString(java.lang.String string)
```

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messageController

Class MessageController

java.lang.Object

messageController.MessageController

```
public class MessageController
extends java.lang.Object
```

Starts the Message Controller - will handle ticket sends and message sends between tablets

Author:

cms549

Constructor Summary

Constructors

Constructor and Description

MessageController()

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type	Method and Description
static void	addChefSocket (long id, java.net.Socket listener) Adds a chef to the list of sockets
static void	addHostSocket (long id, java.net.Socket listener) Adds a host to the list of sockets
static void	addManagerSocket (long id, java.net.Socket listener) Adds a manager to the list of sockets
static void	addWaiterSocket (long id, java.net.Socket listener) Adds a waiter to the list of sockets
static void	main (java.lang.String[] args)

static void	removeChefSocket (long id)
	Removes a chef from the list of sockets
static void	removeHostSocket (long id)
	Removes a host from the list of sockets
static void	removeManagerSocket (long id)
	Removes a manager from the list of sockets
static void	removeWaiterSocket (long id)
	Removes a waiter from the list of sockets

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait

Constructor Detail

MessageController

public MessageController()

Method Detail

addWaiterSocket

public static void addWaiterSocket(long id,
 java.net.Socket listener)

Adds a waiter to the list of sockets

Parameters:

id -- employee id

listener -- socket associated with this employee

addHostSocket

public static void addHostSocket(long id,
 java.net.Socket listener)

Adds a host to the list of sockets

Parameters:

```
id -- employee id  
listener -- socket associated with this employee
```

addChefSocket

```
public static void addChefSocket(long id,  
                                java.net.Socket listener)
```

Adds a chef to the list of sockets

Parameters:

```
id -- employee id  
listener -- socket associated with this employee
```

addManagerSocket

```
public static void addManagerSocket(long id,  
                                   java.net.Socket listener)
```

Adds a manager to the list of sockets

Parameters:

```
id -- employee id  
listener -- socket associated with this employee
```

removeWaiterSocket

```
public static void removeWaiterSocket(long id)
```

Removes a waiter from the list of sockets

Parameters:

```
id -- employee id
```

removeHostSocket

```
public static void removeHostSocket(long id)
```

Removes a host from the list of sockets

Parameters:

```
id -- employee id
```

removeChefSocket

```
public static void removeChefSocket(long id)
```

Removes a chef from the list of sockets

Parameters:

id -- employee id

removeManagerSocket

```
public static void removeManagerSocket(long id)
```

Removes a manager from the list of sockets

Parameters:

id -- employee id

main

```
public static void main(java.lang.String[] args)
```

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messageController

Class MessageControllerListener

```
java.lang.Object
  java.lang.Thread
    messageController.MessageControllerListener
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class MessageControllerListener
extends java.lang.Thread
```

Listens to messages from all tablets.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

```
MessageControllerListener(java.net.Socket listener,
MessageControllerSender sender)
```

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

void	run()
	Starts listening to messages

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

MessageControllerListener

```
public MessageControllerListener(java.net.Socket listener,  
                                MessageControllerSender sender)
```

Constructor

Parameters:

listener -- socket to listen to

sender -- MessageControllerSender -- this will add messages to this to send it

Method Detail

run

```
public void run()
```

Starts listening to messages

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

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messageController

Class MessageControllerSender

```
java.lang.Object
    java.lang.Thread
        messageController.MessageControllerSender
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class MessageControllerSender
extends java.lang.Thread
```

Sends messages to all tablets connected to the message controller.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

[MessageControllerSender \(\)](#)

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

void **run()**

Starts sending messages in pendingMessage.

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

MessageControllerSender

public MessageControllerSender()

Constructor

Method Detail

run

public void run()

Starts sending messages in pendingMessage.

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

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Waiter Package

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waiter

Class WaiterInterface

`java.lang.Object`
waiter.WaiterInterface

```
public class WaiterInterface
extends java.lang.Object
```

Field Summary

Fields

Modifier and Type	Field and Description
boolean	<code>loggedOut</code>
	When this is true I return from constructor back to log in page

`WaiterMessageSender sender`

Constructor Summary

Constructors

Constructor and Description

`WaiterInterface`(javax.swing.JFrame frame, long eID,
java.lang.String empName)

Constructor

Method Summary

[All Methods](#) [Instance Methods](#) [Concrete Methods](#)

Modifier and Type	Method and Description
void	<code>addDishToTicket(Dish dish)</code> Adds a the given dish to the ticket that is currently selected.

void	addNotification (java.lang.String content)
	Adds a notification on current screen by calling another method in panel
void	backToMainScreen ()
	Switches the screen from an open ticket screen to the list of tickets screen.
void	generateTickets ()
	Used for testing
void	notifyManager (Ticket currTicket2)
	Sends a notification to the Manager that a certain table needs help
void	openTicketScreens (int ticketNumber)
	Switches from list of tickets screen to one open ticket screen
void	paid (int tableNumber)
	This is called when a table has paid and server clicks the paid button.
void	removeDishFromTicket (int indexInTicket)
	Removes a the dish at the given index on the ticket that is currently selected.
void	removeLowInventoryDishes (java.lang.String[] dishes)
	This is called when low inventory is met and chef can no longer make these dishes.
void	runUntilLogOut ()
	Returns upon logging out.
void	sendTicket (Ticket t)
	Sends ticket to Chef
void	updateScreen ()
	Updates the current panel - makes them redraw all the buttons

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait

Field Detail

sender

public WaiterMessageSender sender

loggedOut

```
public boolean loggedOut
```

When this is true I return from constructor back to log in page

Constructor Detail

WaiterInterface

```
public WaiterInterface(javax.swing.JFrame frame,  
                      long eID,  
                      java.lang.String empName)
```

Constructor

Parameters:

frame -- frame that will be used by waiter app

eID -- waiter's unique id

empName -- waiter's name

Method Detail

runUntilLogOut

```
public void runUntilLogOut()
```

Returns upon logging out. Sends a message to the Host and MC to notify that waiter is logging out.

addDishToTicket

```
public void addDishToTicket(Dish dish)
```

Adds a the given dish to the ticket that is currently selected. Caller should make sure currTicket field is not null.

Parameters:

dish -- Dish of dish you wish to add

removeDishFromTicket

```
public void removeDishFromTicket(int indexInTicket)
```

Removes a the dish at the given index on the ticket that is currently selected. Caller should make sure currTicket field is not null and index is valid.

Parameters:

indexInTicket - = index of the dish in the current ticket

openTicketScreens

```
public void openTicketScreens(int ticketNumber)
```

Switches from list of tickets screen to one open ticket screen

Parameters:

ticketNumber -- the ticket number you wish to open

backToMainScreen

```
public void backToMainScreen()
```

Switches the screen from an open ticket screen to the list of tickets screen.

notifyManager

```
public void notifyManager(Ticket currTicket2)
```

Sends a notification to the Manager that a certain table needs help

Parameters:

currTicket2 -

sendTicket

```
public void sendTicket(Ticket t)
```

Sends ticket to Chef

Parameters:

t -- ticket to send

generateTickets

```
public void generateTickets()
```

Used for testing

addNotification

```
public void addNotification(java.lang.String content)
```

Adds a notification on current screen by calling another method in panel

Parameters:

content -- content to post on the screen

updateScreen

```
public void updateScreen()
```

Updates the current panel - makes them redraw all the buttons

paid

```
public void paid(int tableNumber)
```

This is called when a table has paid and server clicks the paid button. It alerts host and take this ticket off the list.

Parameters:

tableNumber -- table number of table that just paid

removeLowInventoryDishes

```
public void removeLowInventoryDishes(java.lang.String[] dishes)
```

This is called when low inventory is met and chef can no longer make these dishes. Removes the array of dish names from the menu.

Parameters:

dishes -- array of dish names to be removed from menu.

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waiter

Class WaiterMessageListener

```
java.lang.Object
  java.lang.Thread
    waiter.WaiterMessageListener
```

All Implemented Interfaces:

```
java.lang.Runnable
```

```
public class WaiterMessageListener
extends java.lang.Thread
```

Used to listen from messages from the message controller and decode them.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

```
java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler
```

Field Summary

Fields inherited from class java.lang.Thread

```
MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY
```

Constructor Summary

Constructors

Constructor and Description

```
WaiterMessageListener(java.net.Socket listener, long empID,
WaiterInterface wI)
```

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
-------------------	------------------------

void	<code>run()</code> Listens for messages sent from the MC
------	---

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

WaiterMessageListener

```
public WaiterMessageListener(java.net.Socket listener,  
                           long empID,  
                           WaiterInterface wI)
```

Constructor

Parameters:

listener -- socket to listen to
empID -- waiter's employee id
wI -- waiter interface

Method Detail**run**

```
public void run()
```

Listens for messages sent from the MC

Specified by:

run in interface java.lang.Runnable

Overrides:

run in class java.lang.Thread

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waiter

Class WaiterMessageSender

java.lang.Object
 java.lang.Thread
 waiter.WaiterMessageSender

All Implemented Interfaces:

java.lang.Runnable

```
public class WaiterMessageSender
extends java.lang.Thread
```

Used to Send messages to the message controller to be forwarded to the correct employee.

Author:

cms549

Nested Class Summary

Nested classes/interfaces inherited from class java.lang.Thread

java.lang.Thread.State, java.lang.Thread.UncaughtExceptionHandler

Field Summary

Fields inherited from class java.lang.Thread

MAX_PRIORITY, MIN_PRIORITY, NORM_PRIORITY

Constructor Summary

Constructors

Constructor and Description

WaiterMessageSender(java.net.Socket listener, long empID)

Constructor

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type

void

sendMessage (Message m)

Sends message out to Message controller Automatically will fill in senderInfo with waiter's position and id.

Methods inherited from class java.lang.Thread

activeCount, checkAccess, countStackFrames, currentThread, destroy, dumpStack, enumerate, getAllStackTraces, getContextClassLoader, getDefaultUncaughtExceptionHandler, getId, getName, getPriority, getStackTrace, getState, getThreadGroup, getUncaughtExceptionHandler, holdsLock, interrupt, interrupted, isAlive, isDaemon, isInterrupted, join, join, join, resume, run, setContextClassLoader, setDaemon, setDefaultUncaughtExceptionHandler, setName, setPriority, setUncaughtExceptionHandler, sleep, sleep, start, stop, stop, suspend, toString, yield

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

WaiterMessageSender

```
public WaiterMessageSender(java.net.Socket listener,  
                           long empID)
```

Constructor

Parameters:

listener -- socket to be used

empID -- waiter's employee id

Method Detail

sendMessage

```
public void sendMessage(Message m)
```

Sends message out to Message controller Automatically will fill in senderInfo with waiter's position and id.

Parameters:

m -- message to send

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waiter

Class WaiterOneTicketScreen

```
java.lang.Object
  java.awt.Component
    java.awt.Container
      javax.swing.JComponent
        javax.swing.JPanel
          waiter.WaiterOneTicketScreen
```

All Implemented Interfaces:

```
java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable,
javax.accessibility.Accessible
```

```
public class WaiterOneTicketScreen
extends javax.swing.JPanel
```

Panel that will be used when one ticket is selected from the list of ticket screen. Displays the current ticket as well as the menu. This is where the waiter will place the order.

Author:

cms549

See Also:

[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JComponent

```
javax.swing.JComponent.AccessibleJComponent
```

Nested classes/interfaces inherited from class java.awt.Component

```
java.awt.Component.BaselineResizeBehavior
```

Field Summary

Fields

Modifier and Type	Field and Description
java.lang.String	currTabOpen Can be Apps, Entrees, Drinks, Desserts
Ticket	currTicket current ticket open, null if none is open
WaiterInterface	wi

Fields inherited from class javax.swing.JComponent

TOOL_TIP_TEXT_KEY, UNDEFINED_CONDITION, WHEN_ANCESTOR_OF_FOCUSED_COMPONENT, WHEN_FOCUSED, WHEN_IN_FOCUSED_WINDOW

Fields inherited from class java.awt.Component

BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT

Fields inherited from interface java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

Constructor Summary

Constructors

Constructor and Description

WaiterOneTicketScreen (WaiterInterface waiterInterface)

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
void	makeNotification (java.lang.String content) Draws a notification button on top of screen like banner once it is clicked it closes it
void	setTicket (Ticket t) This is called when ever you switch to this screen, it sets up the ticket to be

displayed on the screen.

void **updateScreen ()**
Refreshes the screen

Methods inherited from class javax.swing.JPanel

getAccessibleContext, getUI, getUIClassID, setUI, updateUI

Methods inherited from class javax.swing.JComponent

addAncestorListener, addNotify, addVetoableChangeListener,
computeVisibleRect, contains, createToolTip, disable, enable,
firePropertyChange, firePropertyChange, firePropertyChange,
getActionForKeyStroke, getActionMap, getAlignmentX, getAlignmentY,
getAncestorListeners, getAutoscrolls, getBaseline,
getBaselineResizeBehavior, getBorder, getBounds, getClientProperty,
getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions,
getDefaultLocale, getFontMetrics, getGraphics, getHeight,
getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets,
getInsets, getListeners, getLocation, getMaximumSize, getMinimumSize,
getNextFocusableComponent, getPopupLocation, getPreferredSize,
getRegisteredKeyStrokes, getRootPane, getSize, getToolTipLocation,
getToolTipText, getToolTipText, getTopLevelAncestor, getTransferHandler,
getVerifyInputWhenFocusTarget, getVetoableChangeListeners, getVisibleRect,
getWidth, getX, getY, grabFocus, hide, isDoubleBuffered,
isLightweightComponent, isManagingFocus, isOpaque,
isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingTile,
isRequestFocusEnabled, isValidateRoot, paint, paintImmediately,
paintImmediately, print, printAll, putClientProperty,
registerKeyboardAction, registerKeyboardAction, removeAncestorListener,
removeNotify, removeVetoableChangeListener, repaint, repaint,
requestDefaultFocus, requestFocus, requestFocus, requestFocusInWindow,
resetKeyboardActions, reshape, revalidate, scrollRectToVisible,
setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground,
setBorder, setComponentPopupMenu, setDebugGraphicsOptions, setDefaultLocale,
setDoubleBuffered, setEnabled, setFocusTraversalKeys, setFont,
setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier,
setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque,
setPreferredSize, setRequestFocusEnabled, setToolTipText,
setTransferHandler, setVerifyInputWhenFocusTarget, setVisible,
unregisterKeyboardAction, update

Methods inherited from class java.awt.Container

add, add, add, add, add, addContainerListener, addPropertyChangeListener,
addPropertyChangeListener, applyComponentOrientation,

```
areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout,
findComponentAt, findComponentAt, getComponent, getComponentAt,
getComponentAt, getComponentCount, getComponents, getComponentZOrder,
getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy,
getLayout, getMousePosition, insets, invalidate, isAncestorOf,
isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider,
isFocusTraversalPolicySet, layout, list, list, locate, minimumSize,
paintComponents, preferredSize, printComponents, remove, remove, removeAll,
removeContainerListener, setComponentZOrder, setFocusCycleRoot,
setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setLayout,
transferFocusDownCycle, validate
```

Methods inherited from class java.awt.Component

```
action, add, addComponentListener, addFocusListener,
addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener,
addKeyListener, addMouseListener, addMouseMotionListener,
addMouseWheelListener, bounds, checkImage, checkImage, contains,
createImage, createImage, createVolatileImage, createVolatileImage,
dispatchEvent, enable, enableInputMethods, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange,
firePropertyChange, getBackground, getBounds, getColorModel,
getComponentListeners, getComponentOrientation, getCursor, getDropTarget,
getFocusCycleRootAncestor, getFocusListeners, getFocusTraversalKeysEnabled,
getFont, getForeground, getGraphicsConfiguration,
getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint,
getInputContext, getInputMethodListeners, getInputMethodRequests,
getKeyListeners, getLocale, getLocation, getLocationOnScreen,
getMouseListeners, getMouseMotionListeners, getMousePosition,
getMouseWheelListeners, getName, getParent, getPeer,
getPropertyChangeListeners, getPropertyChangeListeners, getSize, getToolkit,
getTreeLock, gotFocus, handleEvent, hasFocus, imageUpdate, inside,
isBackgroundSet, isCursorSet, isDisplayable, isEnabled, isFocusable,
isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight,
isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isShowing, isValid,
isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown,
mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus,
paintAll, postEvent, prepareImage, prepareImage, remove,
removeComponentListener, removeFocusListener, removeHierarchyBoundsListener,
removeHierarchyListener, removeInputMethodListener, removeKeyListener,
removeMouseListener, removeMouseMotionListener, removeMouseWheelListener,
removePropertyChangeListener, removePropertyChangeListener, repaint,
repaint, repaint, resize, resize, setBounds, setBounds,
setComponentOrientation, setCursor, setDropTarget, setFocusable,
setFocusTraversalKeysEnabled, setIgnoreRepaint, setLocale, setLocation,
setLocation, setName, setSize, setSize, show, show, size, toString,
transferFocus, transferFocusBackward, transferFocusUpCycle
```

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, wait, wait, wait
```

Field Detail**wi**

```
public WaiterInterface wi
```

currTicket

```
public Ticket currTicket
```

current ticket open, null if none is open

currTabOpen

```
public java.lang.String currTabOpen
```

Can be Apps, Entrees, Drinks, Desserts

Constructor Detail**WaiterOneTicketScreen**

```
public WaiterOneTicketScreen(WaiterInterface waiterInterface)
```

Method Detail**setTicket**

```
public void setTicket(Ticket t)
```

This is called when ever you switch to this screen, it sets up the ticket to be displayed on the screen.

Parameters:

t -- ticket to be displayed

updateScreen

```
public void updateScreen()
```

Refreshes the screen

makeNotification

```
public void makeNotification(java.lang.String content)
```

Draws a notification button on top of screen like banner once it is clicked it closes it

Parameters:

content -- message to be put in the notification

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waiter

Class WaiterTickListScreen

```
java.lang.Object
  java.awt.Component
    java.awt.Container
      javax.swing.JComponent
        javax.swing.JPanel
          waiter.WaiterTickListScreen
```

All Implemented Interfaces:

```
java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable,
javax.accessibility.Accessible
```

```
public class WaiterTickListScreen
extends javax.swing.JPanel
```

Panel that draws the screen for the waiter's list of ticket screen. This is shown when a waiter first logs in.

Author:

cms549

See Also:

[Serialized Form](#)

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JComponent

```
javax.swing.JComponent.AccessibleJComponent
```

Nested classes/interfaces inherited from class java.awt.Component

```
java.awt.Component.BaselineResizeBehavior
```

Field Summary

Fields

Modifier and Type	Field and Description
-------------------	-----------------------

`WaiferInterface` `wi`

Fields inherited from class javax.swing.JComponent

`TOOL_TIP_TEXT_KEY`, `UNDEFINED_CONDITION`, `WHEN_ANCESTOR_OF_FOCUSED_COMPONENT`,
`WHEN_FOCUSED`, `WHEN_IN_FOCUSED_WINDOW`

Fields inherited from class java.awt.Component

`BOTTOM_ALIGNMENT`, `CENTER_ALIGNMENT`, `LEFT_ALIGNMENT`, `RIGHT_ALIGNMENT`,
`TOP_ALIGNMENT`

Fields inherited from interface java.awt.image.ImageObserver

`ABORT`, `ALLBITS`, `ERROR`, `FRAMEBITS`, `HEIGHT`, `PROPERTIES`, `SOMEBITS`, `WIDTH`

Constructor Summary

Constructors

Constructor and Description

`WaiterTickListScreen(WaiferInterface waiterInterface)`

Create the panel.

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type

Method and Description

`void`

`makeNotification(java.lang.String content)`

Makes a notification button on top of screen like banner once it is clicked it closes it

`void`

`updateScreen()`

Redraws the screen using current data.

Methods inherited from class javax.swing.JPanel

`getAccessibleContext`, `getUI`, `getUIClassID`, `setUI`, `updateUI`

Methods inherited from class javax.swing.JComponent

```
addAncestorListener, addNotify, addVetoableChangeListener,  
computeVisibleRect, contains, createToolTip, disable, enable,  
firePropertyChange, firePropertyChange, firePropertyChange,  
getActionForKeyStroke, getActionMap, getAlignmentX, getAlignmentY,  
getAncestorListeners, getAutoscrolls, getBaseline,  
getBaselineResizeBehavior, getBorder, getBounds, getClientProperty,  
getComponentPopupMenu, getConditionForKeyStroke, getDebugGraphicsOptions,  
getDefaultLocale, getFontMetrics, getGraphics, getHeight,  
getInheritsPopupMenu, getInputMap, getInputMap, getInputVerifier, getInsets,  
getInsets, getListeners, getLocation, getMaximumSize, getMinimumSize,  
getNextFocusableComponent, getPopupLocation, getPreferredSize,  
getRegisteredKeyStrokes, getSize, getToolTipLocation,  
getToolTipText, getToolTipText, getTopLevelAncestor, getTransferHandler,  
getVerifyInputWhenFocusTarget, getVetoableChangeListeners, getVisibleRect,  
getWidth, getX, getY, grabFocus, hide, isDoubleBuffered,  
isLightweightComponent, isManagingFocus, isOpaque,  
isOptimizedDrawingEnabled, isPaintingForPrint, isPaintingTile,  
isRequestFocusEnabled, isValidateRoot, paint, paintImmediately,  
paintImmediately, print, printAll, putClientProperty,  
registerKeyboardAction, registerKeyboardAction, removeAncestorListener,  
removeNotify, removeVetoableChangeListener, repaint, repaint,  
requestDefaultFocus, requestFocus, requestFocus, requestFocusInWindow,  
resetKeyboardActions, reshape, revalidate, scrollRectToVisible,  
setActionMap, setAlignmentX, setAlignmentY, setAutoscrolls, setBackground,  
setBorder, setComponentPopupMenu, setDebugGraphicsOptions, setDefaultLocale,  
setDoubleBuffered, setEnabled, setFocusTraversalKeys, setFont,  
setForeground, setInheritsPopupMenu, setInputMap, setInputVerifier,  
setMaximumSize, setMinimumSize, setNextFocusableComponent, setOpaque,  
setPreferredSize, setRequestFocusEnabled, setToolTipText,  
setTransferHandler, setVerifyInputWhenFocusTarget, setVisible,  
unregisterKeyboardAction, update
```

Methods inherited from class java.awt.Container

```
add, add, add, add, addContainerListener, addPropertyChangeListener,  
addPropertyChangeListener, applyComponentOrientation,  
areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout,  
findComponentAt, findComponentAt, getComponent, getComponentAt,  
getComponentAt, getComponentCount, getComponents, getComponentZOrder,  
getContainerListeners, getFocusTraversalKeys, getFocusTraversalPolicy,  
getLayout, getMousePosition, insets, invalidate, isAncestorOf,  
isFocusCycleRoot, isFocusCycleRoot, isFocusTraversalPolicyProvider,  
isFocusTraversalPolicySet, layout, list, list, locate, minimumSize,  
paintComponents, preferredSize, printComponents, remove, remove, removeAll,  
removeContainerListener, setComponentZOrder, setFocusCycleRoot,  
setFocusTraversalPolicy, setFocusTraversalPolicyProvider, setLayout,  
transferFocusDownCycle, validate
```

Methods inherited from class java.awt.Component

action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener, addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener, addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage, contains, createImage, createImage, createVolatileImage, createVolatileImage, dispatchEvent, enable, enableInputMethods, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange, getBackground, getBounds, getColorModel, getComponentListeners, getComponentOrientation, getCursor, getDropTarget, getFocusCycleRootAncestor, getFocusListeners, getFocusTraversalKeysEnabled, getFont, getForeground, getGraphicsConfiguration, getHierarchyBoundsListeners, getHierarchyListeners, getIgnoreRepaint, getInputContext, getInputMethodListeners, getInputMethodRequests, getKeyListeners, getLocale, getLocation, getLocationOnScreen, getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners, getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners, getSize, getToolkit, getTreeLock, gotFocus, handleEvent, hasFocus, imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet, isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isShowing, isValid, isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag, mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, postEvent, prepareImage, prepareImage, remove, removeComponentListener, removeFocusListener, removeHierarchyBoundsListener, removeHierarchyListener, removeInputMethodListener, removeKeyListener, removeMouseListener, removeMouseMotionListener, removeMouseWheelListener, removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint, resize, resize, setBounds, setBounds, setComponentOrientation, setCursor, setDropTarget, setFocusable, setFocusTraversalKeysEnabled, setIgnoreRepaint, setLocale, setLocation, setLocation, setName, setSize, setSize, show, show, size, toString, transferFocus, transferFocusBackward, transferFocusUpCycle

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

wi

```
public WaiterInterface wi
```

Constructor Detail

WaiterTickListScreen

```
public WaiterTickListScreen(WaiterInterface waiterInterface)
```

Create the panel.

Parameters:

waiterInterface -

Method Detail

updateScreen

```
public void updateScreen()
```

Redraws the screen using current data.

makeNotification

```
public void makeNotification(java.lang.String content)
```

Makes a notification button on top of screen like banner once it is clicked it closes it

Parameters:

content -- message to be displayed in notification

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