



UNIVERSITÀ DEGLI STUDI DI PALERMO

*Corso di ingegneria informatica e delle telecomunicazioni, dipartimento DIID*

# Object Design Document

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## 1. Introduzione

Il sistema si propone come supporto per la gestione di tutte le attività per la gestione di un'azienda di trasporto urbano. Esso permetterà di gestire la turnazione e l'amministrazione degli impiegati, la tabella oraria dei mezzi e la visualizzazione da parte degli utenti delle informazioni inerenti alle linee.

### 1.1 Object design Trade-Off

- Viene scelto Java come linguaggio di programmazione per la rappresentazione delle classi: questo propone numerosi vantaggi in ambito della gestione degli errori tramite le eccezioni, e di una notevole portabilità del software a scapito di necessari ulteriori tempi di caricamento della JVM per l'avvio dell'applicazione.
- Vengono utilizzate le librerie *swing* per la rappresentazione della UX e la GUI, con notevoli migliorie nell'ambito della reattività a scapito di una maggiore descrizione necessaria per la rappresentazione delle classi.
- Viene scelto l'utilizzo di una classe separata per la gestione delle interrogazioni al DBMS a scapito di un'organizzazione più selettiva delle funzionalità del database

### 1.2 Interface documentation guideline

Si fornisce la documentazione JAVADOC delle classi realizzate con descrizioni sull'utilizzo delle classi di funzionalità di base e di comunicazione con il DBMS. La documentazione è allegata al punto 4 di questo ipertesto.

### 1.3 Dizionario

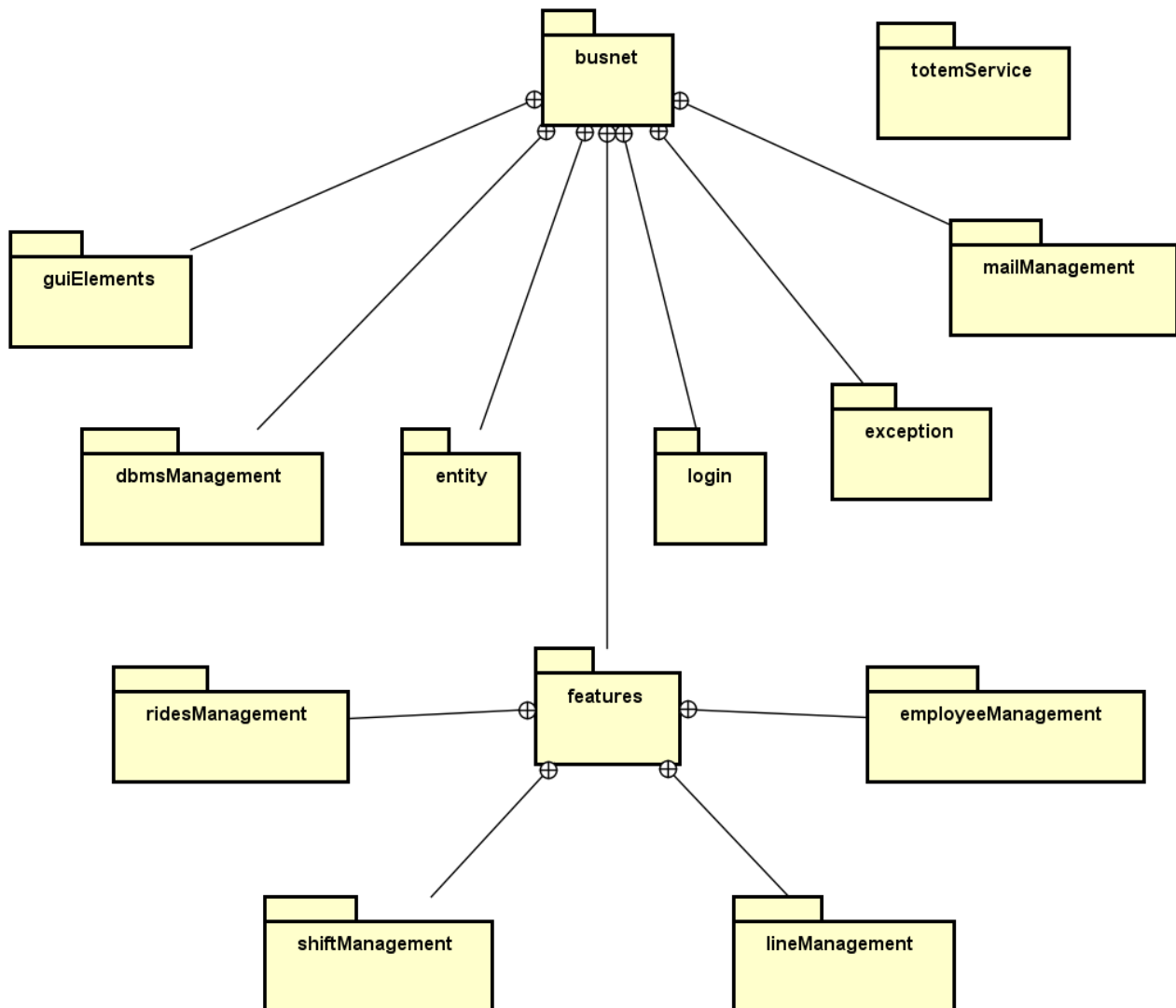
#### Acronimi:

- **DBMS:** Database Management System
- **E-Mail:** Electronic Mail

#### Definizioni:

- **BUSNET:** Il sistema software proposto in questo documento per la gestione dei dati di un'azienda di trasporti pubblici.
- **Form:** Un quadro contenente dei campi da compilare.
- **Login:** Operazione da effettuare per accedere alle funzionalità protette del sistema.
- **Totem:** Computer informativo disponibile all'uso pubblico.
- **Utente:** Utilizzatore del sistema Software.

## 2. Package



Il sistema è composto da due moduli client, uno che gestisce i servizi di amministrazione, uno che gestisce i servizi dei cittadini. Il primo è diviso in 10 packages:

- **BUSNET:** Contiene le classi per le funzionalità di base, come la finestra principale e le finestre di dialogo
- **DbmsManagement:** Contiene la classe che gestisce le comunicazioni col DBMS
- **Entity:** Contiene le classi che definiscono gli oggetti del sistema: *Bus*, *Employee*, *Line*, *Ride*, *RideList*, *ShiftDefaultList*, *ShiftTemporaryList*, *Stop*, *Substitution*
- **Exception:** Contiene le classi di utilità per la gestione delle eccezioni addizionali (quelle eventualmente non gestite dal linguaggio di programmazione che verrà adottato)
- **EmployeeManagement:** Contiene le classi che permettono di gestire i dati degli impiegati ed il calcolo salario.
- **LineManagement:** Contiene le classi per la gestione delle linee, la creazione di fermate e di autobus

- **Login:** Contiene le classi che gestiscono gli accessi al programma
- **MailManagement:** Contiene le classi per la comunicazione con i server Google SMTP per il servizio mail degli impiegati.
- **RidesManagement:** Contiene le classi per la gestione delle corse e delle sostituzioni
- **ShiftManagement:** Contiene le classi per la gestione dei turni

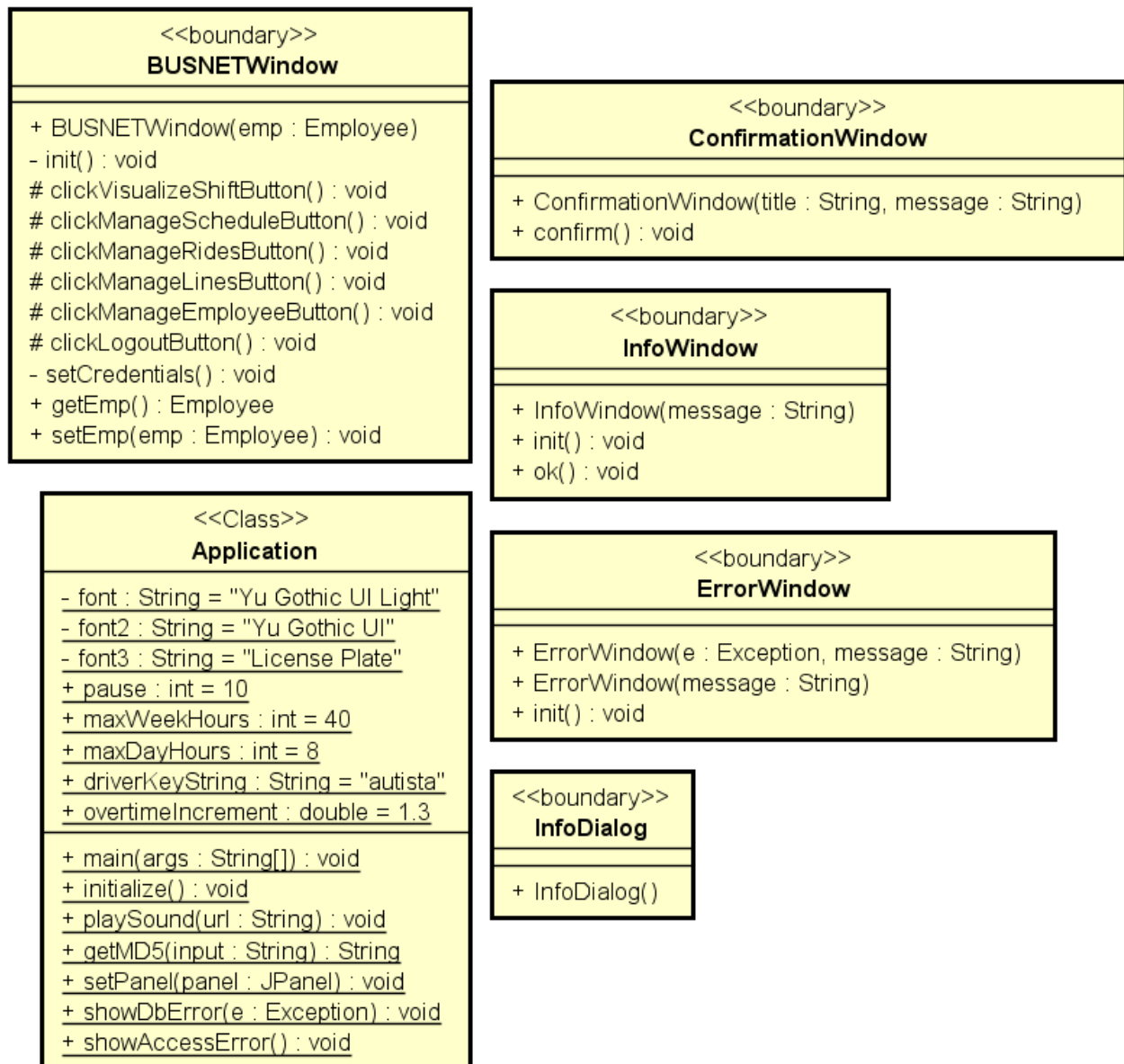
Il secondo modulo contiene un singolo package, chiamato **TotemService**, che contiene le classi di interfaccia grafica dei totem e la classe di interfaccia col DBMS

Inoltre entrambi i moduli contengono package per risorse grafiche, sonore e classi grafiche supplementari. In particolare:

- **GuiElements:** Contiene classi grafiche con boundary supplementari
- **Resources:** Contiene immagini in formato PNG presenti nell'interfaccia del software
- **Sounds:** Contiene suoni in formato WAV per la riproduzione nel software

## 2.1 Organizzazione delle classi nei package lato amministrazione

### 2.1.1 BUSNET package



**BUSNETWindow:** E' il menu principale, che permette all'impiegato di accedere alle aree a lui competenti tramite il metodo `setCredentials()`, che disabilita ed abilita opportunamente le funzionalità accessibili

**ConfirmationWindow:** Permette di creare messaggi visuali di conferma per le operazioni

**ErrorWindow:** Comunica all'impiegato eventuali eccezioni o errori lanciati dal programma

**InfoWindow:** Finestra per le comunicazioni generiche

**InfoDialog:** Finestra per le comunicazioni email

**Application:** Classe contenente il metodo MAIN ed altri metodi di utilità per la visualizzazione e riproduzione dei contenuti.

### 2.1.2 DbmsManagement package

<<boundary>> DBInterface	
- myUrl : String	
- myDriver : String	
- usr : String	
- psw : String	
+ rtrvLineList() : ArrayList<Line>	
+ rtrvStopList() : ArrayList<Stop>	
+ rtrvBusList() : ArrayList<Bus>	
+ rtrvEmployeeList() : ArrayList<Employee>	
+ chkConnection() : boolean	
+ rtrvLineData(lineID : String) : Line	
+ rtrvEmployeeData(cf : String) : Employee	
+ rtrvBusData(busID : String) : Bus	
+ updateEmployeePassword(emp : Employee, newPassword : String) : void	
+ updateLineData(line : Line) : void	
+ resetEmployeePassword(emp : Employee, newPassword : String) : void	
+ saveLineData(line : Line) : void	
+ saveStopData(stop : Stop) : void	
+ saveEmployeeData(emp : Employee, password : String) : void	
+ saveEmployeeData(emp : Employee) : void	
+ saveBusData(bus : Bus) : void	
+ changeBusStatus(busId : String, active : boolean) : void	
+ removeBus(busId : String) : void	
+ removeStop(stopId : String) : void	
+ removeLine(lineId : String) : void	
+ removeEmployee(cf : String) : void	
+ chkEmployeeCredentials(user : String, password : String) : boolean	
+ chkTemporaryPsw(user : String) : boolean	
+ rtrvShiftDefaultList(employeeId : String) : ShiftDefaultList	
+ rtrvShiftTempList(employeeId : String) : ArrayList<ShiftTemporaryList>	
+ rtrvShiftTempListOnDate(empId : String, date : Date) : ShiftTemporaryList	
+ saveDefaultScheduleData(oldS : ShiftDefaultList, newS : ShiftDefaultList) : void	
+ saveTempShiftData(stList : ShiftTemporaryList) : void	
+ rmvTempShiftData(stList : ShiftTemporaryList) : void	
+ rtrvEmployeeShiftList(employeeId : String) : ShiftDefaultList	
+ rtrvRideList(lineId : String, day : short) : RideList	
+ rtrvFreeEmployeeOnDay(day : int) : ArrayList<ArrayList<Employee>>	
+ saveRideList(rlist : RideList) : void	
+ rtrvFreeBusList(day : int) : ArrayList<Bus>	
+ rtrvSubstitutionList() : ArrayList<Substitution>	
+ rtrvAvailableSubstitutionEmployee(date : String, period : int) : ArrayList<Employee>	
+ saveSubstitutionData(sub : Substitution) : void	
+ removeSubstitution(sub : Substitution) : void	
+ saveOvertime(selectedEmployee : String, date : String, hours : int) : void	
+ calculateOvertime(month : int, year : int, employee : String) : int	
+ calculateWorkHoursOnWeek(employee : String) : int[]	
+ rtrvMyShift(employee : String) : String[]	
+ rtrvUpcomingLines(stopId : String) : ArrayList<UpcomingLine>	

**DBInterface:** E' la classe che gestisce tutte le query col DBMS, crea gli oggetti ed effettua eventuali piccole operazioni sui dati prima della creazione degli oggetti richiesti. *myUrl*: Stringa di connessione al database, *myDriver*: driver di connessione al database, *usr*: nome utente amministratore del database, *psw*: password per la connessione al database





## 2.1.3 Entity Package



**Bus:** Rappresenta il veicolo. *BusID: identificativo veicolo (targa), type: tipo di veicolo, model: modello del veicolo, active: stato del veicolo*

**Employee:** Contiene tutti i dati relativi agli impiegati. *Cf: codice fiscale, name: nome, surname: cognome, iban: codice IBAN, birthday: data di nascita, hiring\_date: data di assunzione, salary: stipendio orario, role: ruolo ("autista" è parola chiave per ruolo, ed identifica che quel determinato impiegato è un autista), permission: definisce il profilo utente per l'accesso alle funzionalità, email: indirizzo email per le comunicazioni*

**Line:** Linea come insieme ordinato di fermate. *LineID: nome identificativo linea, Time: tempo di percorrenza totale linea, timeList: tempo di scarto tra una fermata e l'altra, StopList: lista di fermate*

**Ride:** Istanza di una corsa di un veicolo. *StartTime: shift temporale per la partenza del veicolo, employeeShift: vettore che contiene al corrispondente indice, l'identificativo dell'autista che guida il veicolo*

**RideList:** Lista di corse per una determinata linea per un determinato giorno. *LineId: identificativo linea, in riferimento alla linea, day: giorno della settimana in cui si svolgono le corse, map: collezione di Ride e Bus che definiscono la corsa nel dato giorno eseguita in un dato veicolo.*

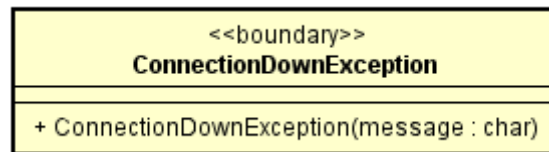
**ShiftDefaultList:** Lista di turni per un dato impiegato: *EmployeeID: riferimento all'impiegato, shifts: matrice che definisce per ogni fascia oraria, la presenza del turno o no in un giorno definito della settimana*

**ShiftTemporaryList:** Lista di turni temporanei per un dato impiegato sostitutivi in un dato giorno. *EmployeeID: riferimento dell'impiegato, date: giorno del turno sostitutivo, shifts: vettore che definisce per una data fascia oraria la presenza o no del turno.*

**Stop:** Definizione di una fermata, o area di sosta. *StopID: identificativo della fermata, stopName: nome della fermata, visibile ai cittadini.*

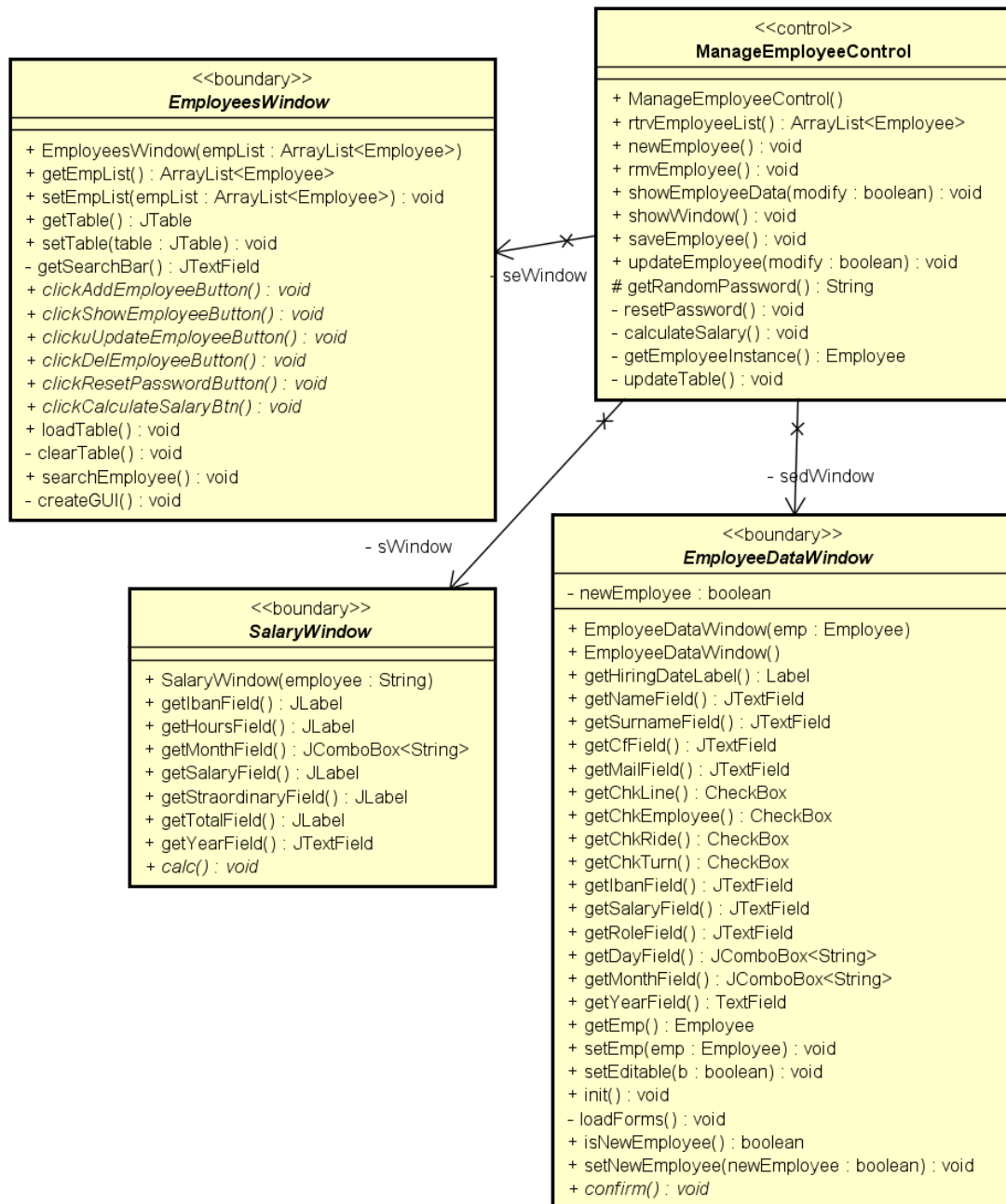
**Substitution:** Definisce una sostituzione per un autista mancante o non disponibile, per una determinata corsa. *BusID: riferimento al veicolo, lineID: riferimento alla linea, period: fascia oraria dove è necessaria la sostituzione, missingDriver: riferimento all'autista mancante, subDriver: riferimento all'autista sostitutivo, shiftDate: data in cui è necessaria la sostituzione.*

#### 2.1.4 Exception Package



**ConnectionDownException:** Eccezione per gli errori di connessione ai server SMTP per l'invio delle e-mail

## 2.1.5 EmployeeManagement Package

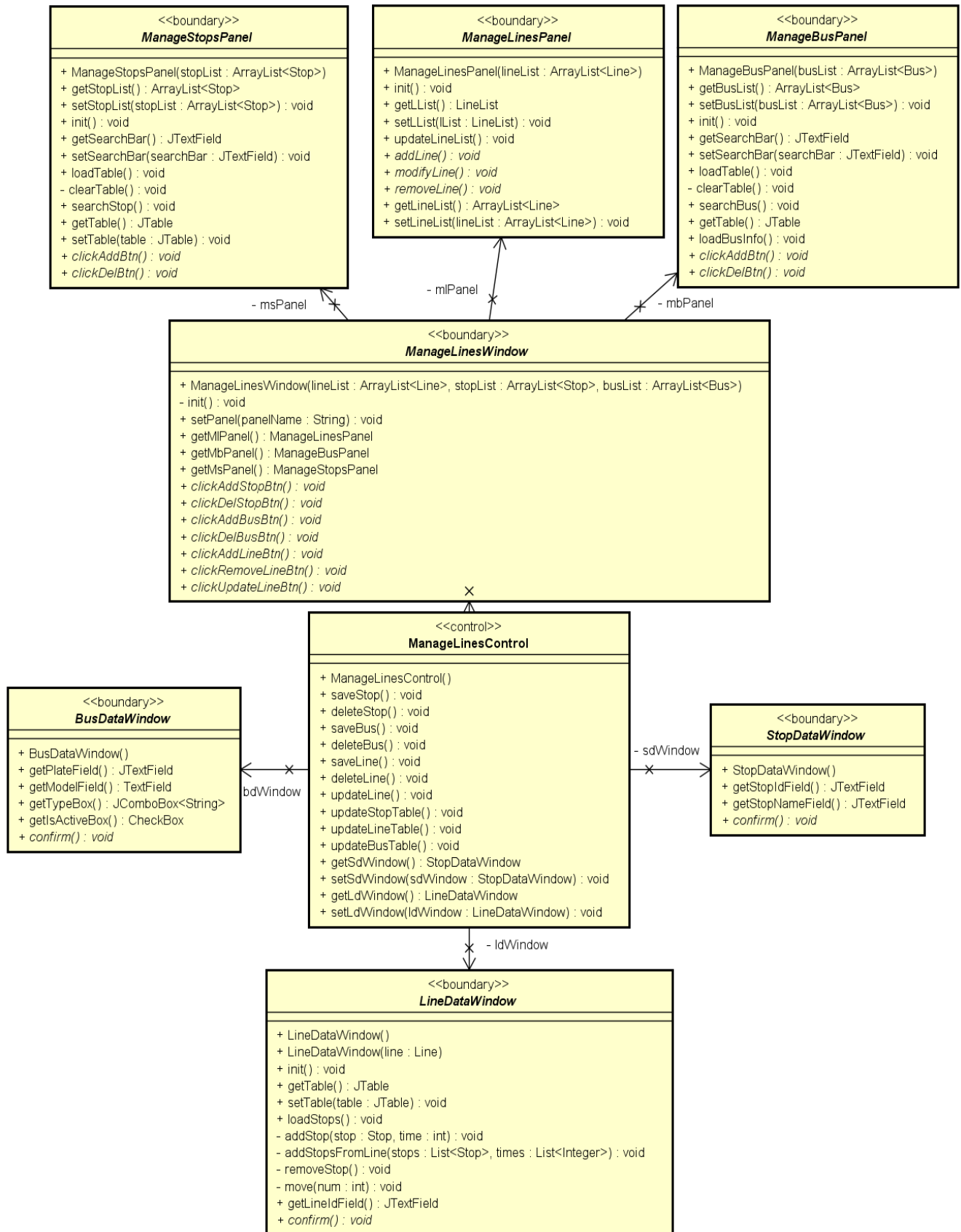


**ManageEmployeeControl:** Classe control che si occupa della gestione degli impiegati. *seWindow*: finestra di visualizzazione della lista di impiegati, *sWindow*: finestra per il calcolo del salario, *sedWindow*: finestra per la visualizzazione dei dati di un impiegato

**SalaryWindow:** Finestra per il calcolo del salario di un impiegato

**EmployeeDataWindow:** Finestra di visualizzazione ed i salvataggi dei dati di un impiegato. *newEmployee*: specifica se l'impiegato caricato esiste o no

## 2.1.6 LineManagement Package



**ManageLinesControl:** Classe control responsabile della gestione delle linee, degli autobus e delle fermate. *IdWindow*: riferimento a *LineDataWindow*, *bdWindow*: riferimento a *BusDataWindow*, *sdWindow*: riferimento a *StopDataWindow*, *mlPanel*: riferimento a *ManageLinesPanel*, *msPanel*: riferimento a *ManageStopsPanel*, *mbPanel*: riferimento a *ManageBusPanel*, *mlWindow*: Riferimento a *ManageLinesWindow*.

**LineDataWindow:** finestra per la gestione dei dati di una linea.

**BusDataWindow:** finestra per la gestione dei dati di un autobus.

**StopDataWindow:** finestra per la gestione dei dati delle fermate.

**ManageLinesWindow:** finestra che contiene i pannelli di amministrazione.

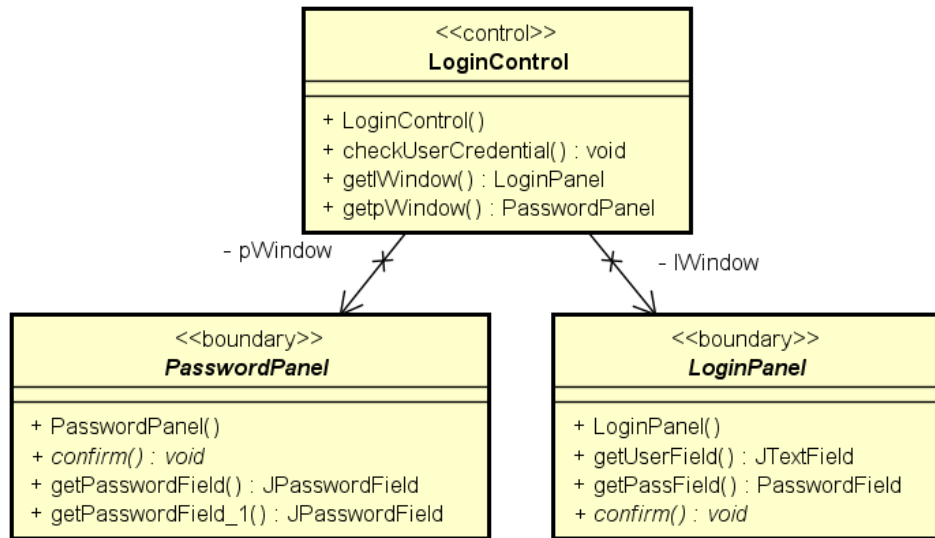
**ManageLinesPanel:** Pannello amministrazione linee, che visualizza tutte le linee presenti e permette aggiungerne, eliminarle ed aggiornarle

**ManageStopsPanel:** Pannello amministrazione fermate, che visualizza tutte le fermate e permette di aggiungerle ed eliminarle

**ManageBusPanel:** Pannello amministrazione veicoli, che permette la visualizzazione, l'aggiunzione e la rimozione dei veicoli del garage.

**Variazioni grafiche:** Rispetto al concept originale riportato nel diagramma delle classi, *ManageStopsWindow*, *ManageLinesWindow* e *ManageBussesWindow* sono state sostituite con dei pannelli contenuti in una finestra unica: *ManageLinesWindow*

### 2.1.7 Login Package

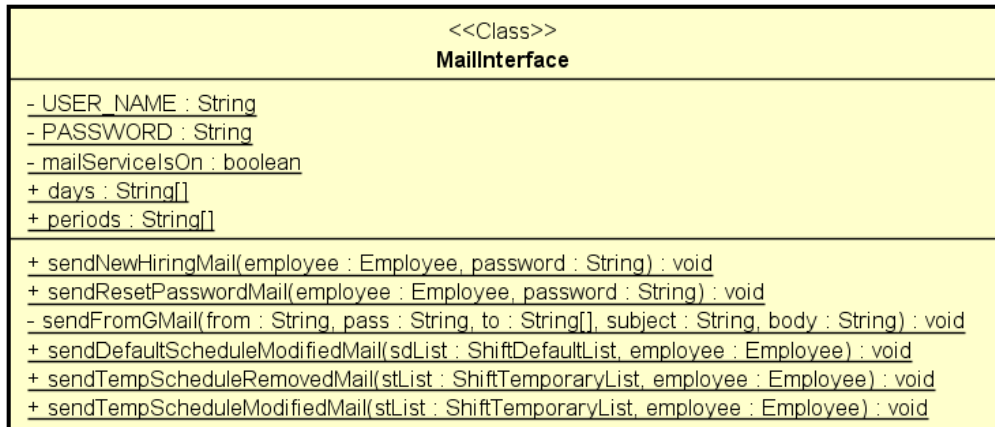


**LoginControl:** Control che gestisce gli accessi al software. *IWindow:* riferimento a *LoginPanel*, *pWindow:* riferimento a *PasswordPanel*

**LoginPanel:** Pannello di login che contiene i campi username e password per effettuare l'accesso

**PasswordPanel:** Pannello di reset password che viene invocato quando nell'utente che fa l'accesso è impostata una password temporanea.

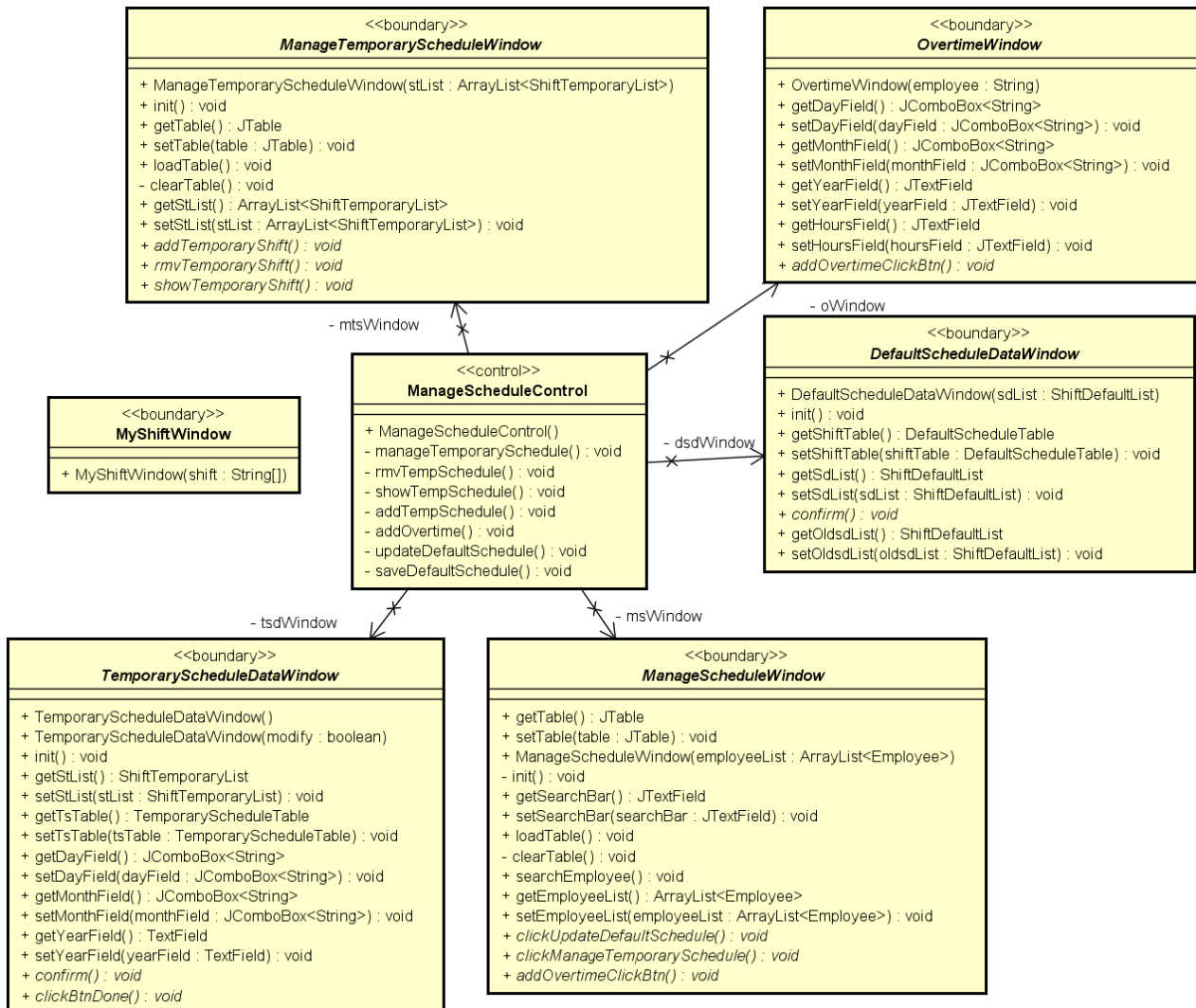
### 2.1.8 MailManagement Package



**MailInterface:** Classe di utilità che contiene tutte le operazioni necessarie per comunicare con i server SMTP gmail per l'invio della posta elettronica dedicata agli impiegati. *USER\_NAME: indirizzo email BUSNET, PASSWORD: password BUSNET, Days: vettore che converte gli indici interi in giorni della settimana, Periods: vettore che converte gli indici interi in fasce orarie di lavoro.*



## 2.1.9 ShiftManagement Package



**ManageScheduleControl:** Classe control che permette all'utente di gestire i turni degli impiegati.

*msWindow: riferimento a ManageScheduleWindow, mtsWindow: riferimento a*

*ManageTemporaryScheduleWindow, oWindow: riferimento ad OvertimeWindow, tsdWindow:*

*riferimento a TemporaryScheduleDataWindow, dsdWindow: riferimento a*

*DefaultScheduleDataWindow*

**ManageScheduleWindow:** Classe di interfaccia grafica che si occupa di mostrare l'elenco degli impiegati per permettere la gestione dei loro turni

**ManageTemporaryScheduleWindow:** Classe di interfaccia grafica che si occupa di mostrare i turni temporanei di un impiegato, di rimuoverli e di aggiungerli.

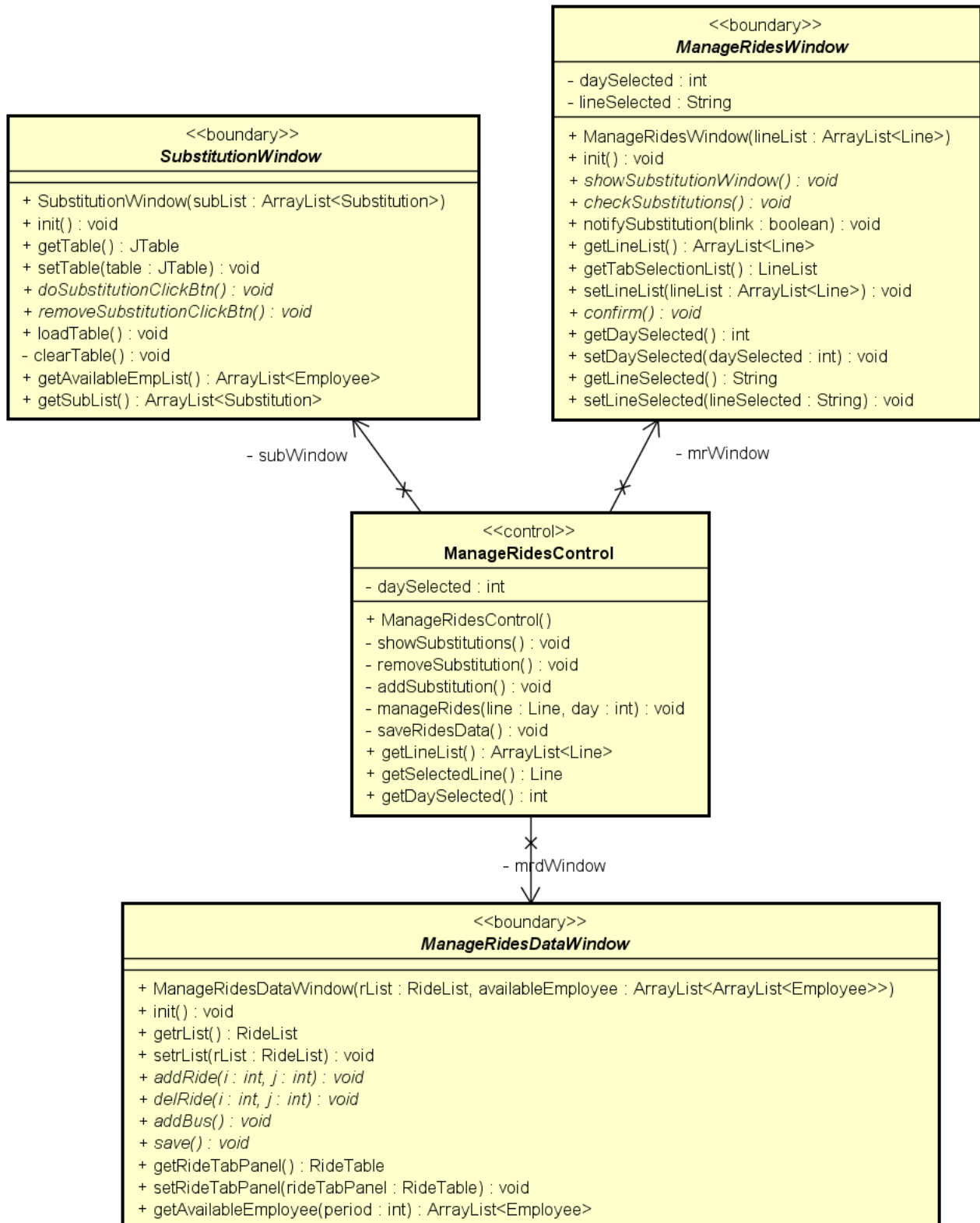
**OvertimeWindow:** Classe di interfaccia grafica che mostra le opzioni per l'aggiunzione di turni straordinari

**TemporaryScheduleDataWindow:** Classe di interfaccia grafica che mostra opzioni utili alla creazione ed alla visualizzazione dei turni temporanei di un impiegato.

**DefaultScheduleDataWindow:** Classe di interfaccia grafica che permette di mostrare e modificare la tabella turni settimanale di un impiegato, in cui vengono fatti a livello di interfaccia i controlli sul rispetto delle regole di turnazione

**MyShiftWindow:** Classe di interfaccia grafica che mostra, dato un impiegato, i suoi turni della settimana corrente.

## 2.1.10 RidesManagement Package



**ManageRidesControl:** Classe control che si occupa della gestione delle corse e delle sostituzioni.  
*subWindow:* riferimento a *SubstitutionWindow*, *mrWindow:* riferimento a *ManageRidesWindow*,  
*mrdWindow:* riferimento a *ManageRidesDataWindow*

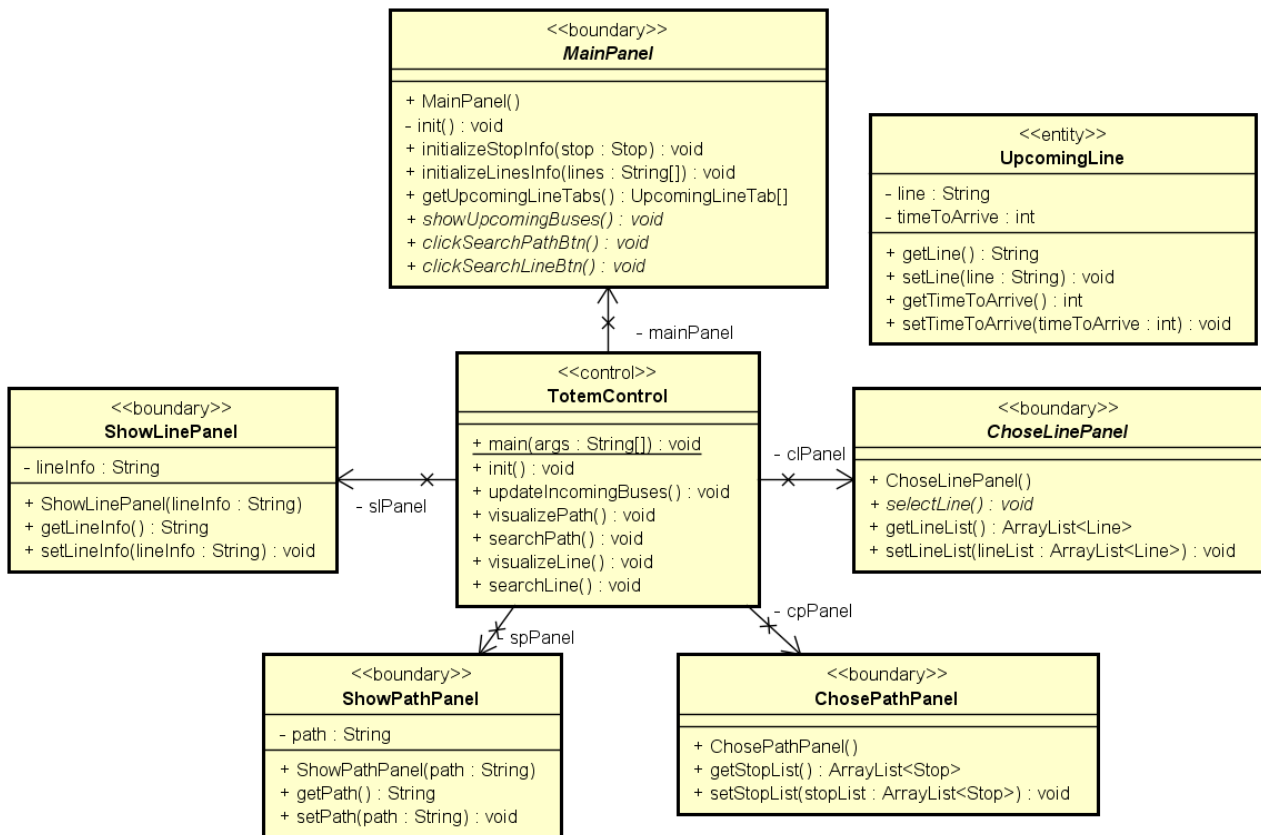
**SubstitutionWindow:** Finestra che permette l'impostazione delle sostituzioni per le corse senza autista

**ManageRidesDataWindow:** Finestra che permette la gestione e la visualizzazione delle corse, la creazione di nuove corse e l'impostazione degli autisti e degli orari di partenza.

**ManageRidesWindow:** Finestra che permette la selezione della linea e del giorno di interesse per la gestione delle corse per tale linea e tale giorno. Tramite la medesima interfaccia è possibile accedere alla creazione delle sostituzioni, che vengono notificate quando necessarie. *LineSelected:* linea selezionata da modificare, *daySelected:* giorno selezionato da modificare

## 2.2 Organizzazione delle classi dei package lato cliente

### 2.2.1 TotemService Package



**TotemControl:** Classe control che si occupa della gestione della visualizzazione e dell'aggiornamento delle funzionalità lato cliente. *clPanel:* riferimento a *ChoseLinePanel*, *cpPanel:* riferimento a *ChosePathpanel*, *spPanel:* riferimento a *ShowPathPanel*, *slPanel:* riferimento a *ShowLinePanel*, *mainPanel:* riferimento a *MainPanel*

**ShowLinePanel:** Pannello che visualizza i risultati di ricerca per una linea attraverso il metodo *searchLine()* di *TotemControl*, tramite il metodo *visualizeLine()*. *lineInfo:* stringa che contiene le informazioni sulla linea selezionata

**ChooseLinePanel:** Pannello che permette la selezione di una linea per visualizzarne le informazioni

**ShowPathPanel:** Pannello che visualizza i risultati di ricerca per un percorso attraverso due fermate. *Path:* stringa contenente le informazioni sul percorso cercato

**MainPanel:** Pannello principale del totem, che visualizza le informazioni sulle linee in arrivo

**ChoosePathPanel:** Pannello che permette la selezione di una linea per visualizzarne le informazioni

**UpcomingLine:** Istanza di una linea in arrivo ad una fermata. *Line:* riferimento alla linea in arrivo, *timeToArrive:* tempo necessario all'arrivo dell'autobus

### 3. Dipendenza tra i packages

Packages	Dipendenze
BUSNET	DBInterface
DBMS Management	Nessuna
Entity	Nessuna
Exception	Nessuna
Employee Management	DBInterface MailInterface
Line Management	DBInterface
Login	DBInterface
Mail Management	Nessuna
Rides Management	DBInterface
Shift Management	DBInterface MailInterface
TotemService	DBInterface

### 4. Interfacce delle classi

Di seguito sono allegate le interfacce delle classi che compongono il sistema:

# Package busnet

## Class Summary

[Application](#)

[BUSNETWindow](#)

[ConfirmationWindow](#)

[ErrorWindow](#)

[InfoDialog](#)

[InfoWindow](#)

---

busnet

## Class Application

```
java.lang.Object
|
+--busnet.Application
```

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

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

## Fields

### **bold**

```
public static java.awt.Font bold
```

---

### **defColor**

```
public static java.awt.Color defColor
```

---

### **driverKeyString**

```
public static java.lang.String driverKeyString
```

---

## formatter

```
public static java.text.NumberFormat formatter
```

---

## frame

```
public static javax.swing.JFrame frame
```

---

## grayColor

```
public static java.awt.Color grayColor
```

---

## maxDayHours

```
public static int maxDayHours
```

---

## maxWeekHours

```
public static int maxWeekHours
```

---

## overtimeIncrement

```
public static double overtimeIncrement
```

---

## pause

```
public static int pause
```

---

## plain

```
public static java.awt.Font plain
```

---

## plainSmall

```
public static java.awt.Font plainSmall
```

---



## plate

```
public static java.awt.Font plate
```

---

## plateSmall

```
public static java.awt.Font plateSmall
```

---

## title

```
public static java.awt.Font title
```

---

## titleBig

```
public static java.awt.Font titleBig
```

---

## titleBig2

```
public static java.awt.Font titleBig2
```

## Constructors

### Application

```
public Application()
```

## Methods

### getMD5

```
public static java.lang.String getMD5(java.lang.String input)
```

Metodo di conversione di stringhe tramite l'algoritmo MD5

**Parameters:**

input - Stringa di input

---

## main

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

---

## playSound

```
public static synchronized void playSound(java.lang.String url)
```

Metodo di riproduzione di un suono

**Parameters:**

url - un URL relativo alla posizione /busnet/sounds/

---

## setPanel

```
public static void setPanel(javax.swing.JPanel panel)
```

Metodo di inizializzazione del pannello principale del frame principale

**Parameters:**

panel - Pannello da inizializzare all'interno del {@link WrapperPanel}}

---

## showAccessError

```
public static void showAccessError()
```

Metodo di visualizzazione rapida di errori a causa di login errato

---

## showDbError

```
public static void showDbError(java.lang.Exception e)
```

Metodo di visualizzazione rapida di errori dbms

**Parameters:**

e - Eccezione da visualizzare

---

busnet

# Class BUSNETWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.BUSNETWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) >

---

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

## Constructors

### BUSNETWindow

```
public BUSNETWindow(Employee emp)
```

Costruttore della finestra principale.

#### Parameters:

emp - Impiegato che effettua l'accesso

---

busnet

# Class ConfirmationWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- busnet.ConfirmationWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

```
public class ConfirmationWindow
extends javax.swing.JDialog
```

## Constructors

### ConfirmationWindow

```
public ConfirmationWindow(java.lang.String title,
                           java.lang.String message)
```

## Methods

### confirm

```
public void confirm()
```

---

busnet

# Class ErrorWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- busnet.ErrorWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

```
public class ErrorWindow
extends javax.swing.JDialog
```

## Constructors

### ErrorWindow

```
public ErrorWindow(java.lang.Exception e,
                   java.lang.String message)
```

### ErrorWindow

```
public ErrorWindow(java.lang.String message)
```

## Methods

### init

```
public void init()
```

---

busnet

# Class InfoDialog

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- busnet.InfoDialog
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) >

---

```
public class InfoDialog
extends javax.swing.JDialog
```

## Constructors

### InfoDialog

```
public InfoDialog()
```

---

busnet

# Class InfoWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- busnet.InfoWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

```
public class InfoWindow
extends javax.swing.JDialog
```

## Constructors

### InfoWindow

```
public InfoWindow(java.lang.String message)
```

## Methods

### init

```
public void init()
```

---

### ok

```
public void ok()
```

# Package busnet.dbmsManagement

## Class Summary

[DBInterface](#)

busnet.dbmsManagement

## Class DBInterface

```
java.lang.Object
|
+--busnet.dbmsManagement.DBInterface
```

< [Constructors](#) > < [Methods](#) >

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

## Constructors

### DBInterface

```
public DBInterface()
```

## Methods

### calculateOvertime

```
public static int calculateOvertime(int month,
                                     int year,
                                     java.lang.String employee)
```

Metodo di recupero dal database delle ore straordinarie svolte per l'impiegato

### calculateWorkHoursOnWeek

```
public static int[] calculateWorkHoursOnWeek(java.lang.String employee)
```



## changeBusStatus

```
public static void changeBusStatus(java.lang.String busId,  
                                     boolean active)
```

Metodo di cambio stato per un veicolo {@link Bus}

**Parameters:**

busId - chiave primaria autobus

active - stato dell'autobus

---

## chkConnection

```
public static boolean chkConnection()
```

Metodo di check della connessione al database

---

## chkEmployeeCredentials

```
public static boolean chkEmployeeCredentials(java.lang.String user,  
                                              java.lang.String password)
```

Metodo di controllo per il login di un impiegato

**Parameters:**

user - chiave primaria impiegato

password - password impiegato

---

## chkTemporaryPsw

```
public static boolean chkTemporaryPsw(java.lang.String user)
```

Metodo controllo per password temporanea di un impiegato {@link Employee}

**Parameters:**

user - chiave primaria impiegato

---

## removeBus

```
public static void removeBus(java.lang.String busId)
```

Metodo di rimozione di un veicolo dal database {@link Bus}

**Parameters:**

busId - chiave primaria autobus

---

## removeEmployee

```
public static void removeEmployee(java.lang.String cf)
```

Metodo di rimozione di un impiegato dal database {@link Employee}

**Parameters:**

cf - chiave primaria impiegato

---

## removeLine

```
public static void removeLine(java.lang.String lineId)
```

Metodo di rimozione di una linea dal database {@link Line}

**Parameters:**

lineId - chiave primaria linea

---

## removeStop

```
public static void removeStop(java.lang.String stopId)
```

Metodo di rimozione di una fermata dal database {@link Stop}

**Parameters:**

stopId - chiave primaria fermata

---

## removeSubstitution

```
public static void removeSubstitution(Substitution sub)
```

Metodo di rimozione dal database delle sostituzioni {@link Substitution}

**Parameters:**

sub - sostituzione da rimuovere

---

## resetEmployeePassword

```
public static void resetEmployeePassword(Employee emp,  
                                           java.lang.String newPassword)
```

Metodo di reset della password per un impiegato

**Parameters:**

emp - Impiegato a cui resettare la password

newPassword - nuova password (in automatico passata dal generatore casuale)

---

## rmvTempShiftData

```
public static void rmvTempShiftData(ShiftTemporaryList stList)
```

Metodo di rimozione dal database di una turnazione temporanea {@link ShiftTemporaryList}

**Parameters:**

stList - lista temporanea di turnazioni

---

## rtrvAvailableSubstitutionEmployee

```
public static java.util.ArrayList  
rtrvAvailableSubstitutionEmployee(java.lang.String date, int  
period)
```

Metodo di recupero dal database di una lista di autisti liberi per un dato giorno che possono effettuare una sostituzione per un eventuale turnazione temporanea {@link Employee}

**Parameters:**

period - fascia oraria in cui recuperare la corsa

---

## rtrvBusData

```
public static Bus rtrvBusData(java.lang.String busID)
```

Metodo di restituzione dell'oggetto {@link Bus} data la chiave primaria

**Parameters:**

busID - Chiave primaria veicolo

---

## rtrvBusList

```
public static java.util.ArrayList rtrvBusList()
```

Metodo di restituzione della lista dei mezzi attivi

---

## rtrvEmployeeData

```
public static Employee rtrvEmployeeData(java.lang.String cf)
```

Metodo di restituzione dell'oggetto {@link Employee} data la chiave primaria

**Parameters:**

cf - Chiave primaria impiegato

---

## rtrvEmployeeList

```
public static java.util.ArrayList rtrvEmployeeList()
```

Metodo di restituzione della lista degli impiegati

---

## rtrvEmployeeShiftList

```
public static ShiftDefaultList rtrvEmployeeShiftList(java.lang.String  
employeeId)
```

Metodo di recupero dal database di una turnazione per un impiegato {@link ShiftDefaultList}

**Parameters:**

employeeId - impiegato per cui ottenere la turnazione

---

## rtrvFreeBusList

```
public static java.util.ArrayList rtrvFreeBusList(int day)
```

Metodo di recupero dal database di una lista di mezzi liberi per un dato giorno {@link Bus}

**Parameters:**

day - giorno della settimana in cui recuperare la corsa

---

## rtrvFreeEmployeeOnDay

```
public static java.util.ArrayList rtrvFreeEmployeeOnDay(int day)
```

Metodo di recupero dal database di una lista di autisti liberi per un dato giorno {@link Employee}

**Parameters:**

day - giorno della settimana in cui recuperare la corsa

---

## rtrvLineData

```
public static Line rtrvLineData(java.lang.String lineID)
```

Metodo di restituzione dell'oggetto {@link Line} data la chiave primaria

**Parameters:**

lineID - chiave primaria linea

---

## rtrvLineList

```
public static java.util.ArrayList rtrvLineList()
```

Metodo di restituzione della lista delle linee attive

---

## rtrvMyShift

```
public static java.lang.String[] rtrvMyShift(java.lang.String employee)
```

Metodo di recupero dal database delle ore settimanali per l'impiegato

---

## rtrvRideList

```
public static RideList rtrvRideList(java.lang.String lineId,  
                                   short day)
```

Metodo di recupero dal database di una lista di corse per un dato giorno ed una data linea {@link RideList}

**Parameters:**

lineId - linea di cui recuperare la corsa

day - giorno della settimana in cui recuperare la corsa

---

## rtrvShiftDefaultList

```
public static ShiftDefaultList rtrvShiftDefaultList(java.lang.String  
employeeId)
```

Metodo di caricamento delle informazioni relative ai turni di un impiegato {@link Employee}, {@link ShiftDefaultList}

**Parameters:**

employeeId - chiave primaria impiegato

---

## rtrvShiftTempList

```
public static java.util.ArrayList rtrvShiftTempList(java.lang.String  
employeeId)
```

Metodo di caricamento delle informazioni relative ai turni di un impiegato {@link Employee}, {@link ShiftTemporaryList}

**Parameters:**

employeeId - chiave primaria impiegato

---

## rtrvShiftTempListOnDate

```
public static ShiftTemporaryList rtrvShiftTempListOnDate(java.lang.String  
empId,                                                                    java.util.Date date)
```

Metodo di caricamento delle informazioni relative ai turni di un impiegato in un giorno specifico  
{@link Employee}

**Parameters:**

empld - chiave primaria impiegato  
date - data

---

## rtrvStopList

```
public static java.util.ArrayList rtrvStopList()
```

Metodo di restituzione della lista delle fermate attive

---

## rtrvSubstitutionList

```
public static java.util.ArrayList rtrvSubstitutionList()
```

Metodo di recupero dal database della lista delle sostituzioni effettuate

---

## rtrvUpcomingLines

```
public static java.util.ArrayList rtrvUpcomingLines(java.lang.String stopId)
```

Metodo di recupero dal database delle linee in arrivo per una certa fermata

---

## saveBusData

```
public static void saveBusData(Bus bus)
```

Metodo di salvataggio dei dati di un nuovo veicolo {@link Bus}

**Parameters:**

bus - Autobus da aggiungere al database

---

## saveDefaultScheduleData

```
public static void saveDefaultScheduleData(ShiftDefaultList oldS,  
                                           ShiftDefaultList newS)
```

Metodo di salvataggio nel database di una turnazione {@link ShiftDefaultList}

**Parameters:**

oldS - vecchio schema di turnazione

newS - nuovo schema di turnazione

---

## saveEmployeeData

```
public static void saveEmployeeData(Employee emp)
```

Metodo di aggiornamento dei dati di un impiegato {@link Employee}

**Parameters:**

emp - Impiegato di cui aggiornare le informazioni

---

## saveEmployeeData

```
public static void saveEmployeeData(Employee emp,  
                                   java.lang.String password)
```

Metodo di salvataggio di un nuovo impiegato {@link Employee}

**Parameters:**

emp - Impiegato da salvare nel database

password - nuova password (in automatico passata dal generatore casuale)

---

## saveLineData

```
public static void saveLineData(Line line)
```

Metodo di salvataggio di una linea {@link Line}

**Parameters:**

line - Linea da aggiungere al database

---

## saveOvertime

```
public static void saveOvertime(java.lang.String selectedEmployee,  
                                java.lang.String date,  
                                int hours)
```

Metodo di salvataggio nel database di turni straordinari per un impiegato

**Parameters:**

selectedEmployee - chiave primaria per {@link Employee}  
date - data dello straordinario  
hours - ore sostenute

---

## saveRideList

```
public static void saveRideList(RideList rlist)
```

Metodo di salvataggio nel database di una lista di corse per un dato giorno ed una data linea  
{@link RideList}

**Parameters:**

rlist - istanza di {@link RideList}

---

## saveStopData

```
public static void saveStopData(Stop stop)
```

Metodo di salvataggio dei dati di una fermata {@link Stop}

**Parameters:**

stop - Fermata da aggiungere al database

---

## saveSubstitutionData

```
public static void saveSubstitutionData(Substitution sub)
```

Metodo di salvataggio nel database delle sostituzioni {@link Substitution}

**Parameters:**

sub - sostituzione da salvare e applicare

---



## saveTempShiftData

```
public static void saveTempShiftData(ShiftTemporaryList stList)
```

Metodo di salvataggio nel database di una turnazione temporanea {@link ShiftTemporaryList}

**Parameters:**

stList - lista temporanea di turnazioni

---

## updateEmployeePassword

```
public static void updateEmployeePassword(Employee emp,  
                                             java.lang.String newPassword)
```

Metodo di aggiornamento della password di un impiegato

**Parameters:**

emp - Impiegato a cui aggiornare la password  
newPassword - nuova password

---

## updateLineData

```
public static void updateLineData(Line line)
```

Metodo di aggiornamento delle informazioni di una linea

**Parameters:**

line - linea da aggiornare

# Package busnet.entity

## Class Summary

[Bus](#)

[Employee](#)

[Line](#)

[Ride](#)

[RideList](#)

[ShiftDefaultList](#)

[ShiftTemporaryList](#)

[Stop](#)

[Substitution](#)

[UpcomingLine](#)

---

busnet.entity

## Class Bus

```
java.lang.Object
|
+--busnet.entity.Bus
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

# Bus

```
public Bus(java.lang.String busID,  
           java.lang.String type,  
           java.lang.String model,  
           boolean active)
```

## Methods

### getBusID

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

---

### getModel

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

---

### getType

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

---

### isActive

```
public boolean isActive()
```

---

### setActive

```
public void setActive(boolean active)
```

---

### setBusID

```
public void setBusID(java.lang.String busID)
```

---

## setModel

```
public void setModel(java.lang.String model)
```

---

## setType

```
public void setType(java.lang.String type)
```

---

## toString

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

### Overrides:

toString in class java.lang.Object

---

busnet.entity

# Class Employee

```
java.lang.Object  
|  
+--busnet.entity.Employee
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

## Employee

```
public Employee()
```

---

# Employee

```
public Employee(java.lang.String cf,  
                java.lang.String name,  
                java.lang.String surname,  
                java.lang.String birthplace,  
                java.lang.String birthday,  
                java.lang.String hiring_date,  
                double salary,  
                java.lang.String role,  
                short permission,  
                java.lang.String email)
```

## Methods

### getBirthday

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

---

### getCf

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

---

### getEmail

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

---

### getHiring\_date

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

---

### getIban

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

---

## getName

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

---

## getPermission

```
public short getPermission()
```

---

## getRole

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

---

## getSalary

```
public double getSalary()
```

---

## getSurname

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

---

## setBirthday

```
public void setBirthday(java.lang.String birthday)
```

---

## setCf

```
public void setCf(java.lang.String cf)
```

---

## setEmail

```
public void setEmail(java.lang.String email)
```

---

## setHiring\_date

```
public void setHiring_date(java.lang.String hiring_date)
```

---

## setIban

```
public void setIban(java.lang.String iban)
```

---

## setName

```
public void setName(java.lang.String name)
```

---

## setPermission

```
public void setPermission(short permission)
```

---

## setRole

```
public void setRole(java.lang.String role)
```

---

## setSalary

```
public void setSalary(double salary)
```

---

## setSurname

```
public void setSurname(java.lang.String surname)
```

---

## toString

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

### Overrides:

toString in class java.lang.Object

---

busnet.entity

## Class Line

```
java.lang.Object
|
+--busnet.entity.Line
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### Line

```
public Line()
```

### Line

```
public Line(java.lang.String lineId,
            int time)
```

### Line

```
public Line(java.lang.String lineId,
            int time,
            java.util.List timeList,
            java.util.List stopList)
```

## Methods



## addStop

```
public void addStop(Stop stop,  
                   int time)
```

---

## getHours

```
public int getHours()
```

---

## getHours

```
public int getHours(int i)
```

---

## getLineId

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

---

## getMinutes

```
public int getMinutes()
```

---

## getMinutes

```
public int getMinutes(int i)
```

---

## getStopList

```
public java.util.List getStopList()
```

---

## getTimeList

```
public java.util.List getTimeList()
```

---

## removeStop

```
public void removeStop(int i)
```

---

## setLineId

```
public void setLineId(java.lang.String lineId)
```

---

## setTime

```
public void setTime(int time)
```

---

## toString

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

### Overrides:

toString in class java.lang.Object

---

**busnet.entity**

# Class Ride

```
java.lang.Object  
|  
+--busnet.entity.Ride
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### Ride

```
public Ride()
```

---

### Ride

```
public Ride(java.lang.String startTime)
```

## Methods

### delEmployeeShift

```
public void delEmployeeShift(int period)
```

---

### getEmployeeShift

```
public java.lang.String getEmployeeShift(int period)
```

---

### getStartTime

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

---

### setEmployeeShift

```
public void setEmployeeShift(int period,  
                             java.lang.String employeeShift)
```

---

### setStartTime

```
public void setStartTime(java.lang.String startTime)
```

---

## toString

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

### Overrides:

toString in class java.lang.Object

---

busnet.entity

## Class RideList

```
java.lang.Object
|
+--busnet.entity.RideList
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### RideList

```
public RideList(java.lang.String lineId,
                int day)
```

## Methods

### deleteRide

```
public void deleteRide(java.lang.String busId)
```

---

### getDay

```
public int getDay()
```

---

## getLineId

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

---

## getMap

```
public java.util.Map getMap()
```

---

## getRidesSize

```
public int getRidesSize()
```

---

## peekBus

```
public java.lang.String peekBus(int i)
```

---

## peekRide

```
public Ride peekRide(int i)
```

---

## peekRide

```
public Ride peekRide(java.lang.String busId)
```

---

## pushRide

```
public void pushRide(java.lang.String busId,  
                     Ride ride)
```

---

## setDay

```
public void setDay(int day)
```

---

## setLineId

```
public void setLineId(java.lang.String lineId)
```

---

## setMap

```
public void setMap(java.util.Map map)
```

---

## toString

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

### Overrides:

toString in class java.lang.Object

---

busnet.entity

# Class ShiftDefaultList

```
java.lang.Object  
|  
+--busnet.entity.ShiftDefaultList
```

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

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

## Fields

### periodsNum

```
public static final int periodsNum
```

## Constructors

### ShiftDefaultList

```
public ShiftDefaultList(java.lang.String employeeId)
```

## Methods

### delShift

```
public void delShift(int day,  
                    int period)
```

---

### getEmployeeId

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

---

### getShift

```
public boolean getShift(int day,  
                      int period)
```

---

### setEmployeeId

```
public void setEmployeeId(java.lang.String employeeId)
```

---

### setShift

```
public void setShift(int day,  
                   int period)
```

---

busnet.entity

# Class ShiftTemporaryList

```
java.lang.Object
|
+--busnet.entity.ShiftTemporaryList
```

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

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

## Fields

### periodsNum

```
public static final int periodsNum
```

## Constructors

### ShiftTemporaryList

```
public ShiftTemporaryList(java.lang.String employeeId,
                           java.lang.String date)
```

## Methods

### delShift

```
public void delShift(int period)
```

---

### getDate

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

---



## getEmployeeId

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

---

## getShift

```
public boolean getShift(int period)
```

---

## setDate

```
public void setDate(java.lang.String date)
```

---

## setEmployeeId

```
public void setEmployeeId(java.lang.String employeeId)
```

---

## setShift

```
public void setShift(int period)
```

---

**busnet.entity**

# Class Stop

```
java.lang.Object  
|  
+--busnet.entity.Stop
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

# Stop

```
public Stop()
```

---

# Stop

```
public Stop(java.lang.String stopId,  
            java.lang.String stopName)
```

## Methods

### getStopId

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

---

### getStopName

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

---

### setStopId

```
public void setStopId(java.lang.String stopId)
```

---

### setStopName

```
public void setStopName(java.lang.String stopName)
```

---

### toString

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

#### Overrides:

toString in class java.lang.Object

---

busnet.entity

# Class Substitution

```
java.lang.Object
|
+--busnet.entity.Substitution
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### Substitution

```
public Substitution()
```

## Methods

### getBusId

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

---

### getLineId

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

---

### getMissingDriver

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

---

### getPeriod

```
public int getPeriod()
```

---

## getShiftDate

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

---

## getSubDriver

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

---

## setBusId

```
public void setBusId(java.lang.String busId)
```

---

## setLineId

```
public void setLineId(java.lang.String lineId)
```

---

## setMissingDriver

```
public void setMissingDriver(java.lang.String missingDriver)
```

---

## setPeriod

```
public void setPeriod(int period)
```

---

## setShiftDate

```
public void setShiftDate(java.lang.String shiftDate)
```

---

## setSubDriver

```
public void setSubDriver(java.lang.String subDriver)
```

---

busnet.entity

# Class UpcomingLine

```
java.lang.Object
|
+--busnet.entity.UpcomingLine
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### UpcomingLine

```
public UpcomingLine()
```

## Methods

### getLine

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

---

### getTimeToArrive

```
public int getTimeToArrive()
```

---

### setLine

```
public void setLine(java.lang.String line)
```

---

## setTimeToArrive

```
public void setTimeToArrive(int timeToArrive)
```

# Package busnet.exception

## Class Summary

[ConnectionDownException](#)

busnet.exception

## Class ConnectionDownException

```
java.lang.Object
|
+-- java.lang.Throwable
|   |
|   +-- java.lang.Exception
|       |
|       +-- busnet.exception.ConnectionDownException
```

### All Implemented Interfaces:

java.io.Serializable

< [Constructors](#) >

```
public class ConnectionDownException
extends java.lang.Exception
```

## Constructors

### ConnectionDownException

```
public ConnectionDownException(java.lang.String message)
```

# Package busnet.features.employeeManagement

## Class Summary

[EmployeeDataWindow](#)

[EmployeesWindow](#)

[ManageEmployeeControl](#)

[SalaryWindow](#)

---

busnet.features.employeeManagement

## Class EmployeeDataWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.employeeManagement.EmployeeDataWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **EmployeeDataWindow**  
extends [Window](#)

## Constructors



# EmployeeDataWindow

```
public EmployeeDataWindow()
```

---

# EmployeeDataWindow

```
public EmployeeDataWindow(Employee emp)
```

## Methods

### confirm

```
public abstract void confirm()
```

---

### getCfField

```
public javax.swing.JTextField getCfField()
```

---

### getChkEmployee

```
public CheckBox getChkEmployee()
```

---

### getChkLine

```
public CheckBox getChkLine()
```

---

### getChkRide

```
public CheckBox getChkRide()
```

---

## getChkTurn

```
public CheckBox getChkTurn()
```

---

## getDayField

```
public javax.swing.JComboBox getDayField()
```

---

## getEmp

```
public Employee getEmp()
```

---

## getHiringDateLabel

```
public Label getHiringDateLabel()
```

---

## getIbanField

```
public javax.swing.JTextField getIbanField()
```

---

## getMailField

```
public javax.swing.JTextField getMailField()
```

---

## getMonthField

```
public javax.swing.JComboBox getMonthField()
```

---

## getNameField

```
public javax.swing.JTextField getNameField()
```

---

## getRoleField

```
public javax.swing.JTextField getRoleField()
```

---

## getSalaryField

```
public javax.swing.JTextField getSalaryField()
```

---

## getSurnameField

```
public javax.swing.JTextField getSurnameField()
```

---

## getYearField

```
public TextField getYearField()
```

---

## init

```
public void init()
```

---

## isNewEmployee

```
public boolean isNewEmployee()
```

---

## setEditable

```
public void setEditable(boolean b)
```

---

## setEmp

```
public void setEmp(Employee emp)
```

## setNewEmployee

```
public void setNewEmployee(boolean newEmployee)
```

busnet.features.employeeManagement

# Class EmployeesWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.employeeManagement.EmployeesWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public abstract class EmployeesWindow
extends Window
```

## Constructors

## EmployeesWindow

```
public EmployeesWindow(java.util.ArrayList empList)
```

## Methods

## clickAddEmployeeButton

```
public abstract void clickAddEmployeeButton()
```

---

## clickCalculateSalaryBtn

```
public abstract void clickCalculateSalaryBtn()
```

---

## clickDelEmployeeButton

```
public abstract void clickDelEmployeeButton()
```

---

## clickResetPasswordButton

```
public abstract void clickResetPasswordButton()
```

---

## clickShowEmployeeButton

```
public abstract void clickShowEmployeeButton()
```

---

## clickuUpdateEmployeeButton

```
public abstract void clickuUpdateEmployeeButton()
```

---

## getEmpList

```
public java.util.ArrayList getEmpList()
```

---

## getTable

```
public javax.swing.JTable getTable()
```

---

## loadTable

```
public void loadTable()
```

---

## searchEmployee

```
public void searchEmployee()
```

---

## setEmpList

```
public void setEmpList(java.util.ArrayList empList)
```

---

## setTable

```
public void setTable(javax.swing.JTable table)
```

---

---

**busnet.features.employeeManagement**

# Class ManageEmployeeControl

```
java.lang.Object
|
+--busnet.features.employeeManagement.ManageEmployeeControl
```

---

< [Constructors](#) > < [Methods](#) >

---

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

---

## Constructors

## ManageEmployeeControl

```
public ManageEmployeeControl()
```

## Methods

### newEmployee

```
public void newEmployee()
```

---

### rmvEmployee

```
public void rmvEmployee()
```

---

### rtrvEmployeeList

```
public java.util.ArrayList rtrvEmployeeList()
```

---

### saveEmployee

```
public void saveEmployee()
```

---

### showEmployeeData

```
public void showEmployeeData(boolean modify)
```

---

### showWindow

```
public void showWindow()
```

---

### updateEmployee

```
public void updateEmployee(boolean modify)
```

---

busnet.features.employeeManagement

# Class SalaryWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.employeeManagement.SalaryWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **SalaryWindow**  
extends [Window](#)

## Constructors

### SalaryWindow

public **SalaryWindow**(java.lang.String employee)

## Methods

### calc

public abstract void **calc**()

---

### getHoursField

public javax.swing.JLabel **getHoursField**()



---

## getIbanField

```
public javax.swing.JLabel getIbanField()
```

---

## getMonthField

```
public javax.swing.JComboBox getMonthField()
```

---

## getSalaryField

```
public javax.swing.JLabel getSalaryField()
```

---

## getStraordinaryField

```
public javax.swing.JLabel getStraordinaryField()
```

---

## getTotalField

```
public javax.swing.JLabel getTotalField()
```

---

## getYearField

```
public javax.swing.JTextField getYearField()
```

# Package busnet.features.lineManagement

## Class Summary

[BusDataWindow](#)

[LineDataWindow](#)

[ManageBusPanel](#)

[ManageLinesControl](#)

[ManageLinesPanel](#)

[ManageLinesWindow](#)

[ManageStopsPanel](#)

[StopDataWindow](#)

---

busnet.features.lineManagement

## Class BusDataWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.lineManagement.BusDataWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **BusDataWindow**  
extends [Window](#)

## Constructors

### BusDataWindow

```
public BusDataWindow()
```

## Methods

### confirm

```
public abstract void confirm()
```

---

### getIsActiveBox

```
public CheckBox getIsActiveBox()
```

---

### getModelField

```
public TextField getModelField()
```

---

### getPlateField

```
public javax.swing.JTextField getPlateField()
```

---

### getTypeBox

```
public javax.swing.JComboBox getTypeBox()
```

---

busnet.features.lineManagement

# Class LineDataWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.lineManagement.LineDataWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **LineDataWindow**  
extends [Window](#)

## Constructors

### LineDataWindow

public **LineDataWindow**()

### LineDataWindow

public **LineDataWindow**([Line](#) line)

## Methods

### confirm

public abstract void **confirm**()

---

## getLineIdField

```
public javax.swing.JTextField getLineIdField()
```

---

## getTable

```
public javax.swing.JTable getTable()
```

---

## init

```
public void init()
```

---

## loadStops

```
public void loadStops()
```

---

## setTable

```
public void setTable(javax.swing.JTable table)
```

---

busnet.features.lineManagement

# Class ManageBusPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.features.lineManagement.ManageBusPanel
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **ManageBusPanel**  
extends javax.swing.JPanel

## Constructors

### ManageBusPanel

public **ManageBusPanel**(java.util.ArrayList busList)

## Methods

### clickAddBtn

public abstract void **clickAddBtn**()

---

### clickDelBtn

public abstract void **clickDelBtn**()

---

## getBusList

```
public java.util.ArrayList getBusList()
```

---

## getSearchBar

```
public javax.swing.JTextField getSearchBar()
```

---

## getTable

```
public javax.swing.JTable getTable()
```

---

## init

```
public void init()
```

---

## loadBusInfo

```
public void loadBusInfo()
```

---

## loadTable

```
public void loadTable()
```

---

## searchBus

```
public void searchBus()
```

---

## setBusList

```
public void setBusList(java.util.ArrayList busList)
```

---

## setSearchBar

```
public void setSearchBar(javax.swing.JTextField searchBar)
```

---

busnet.features.lineManagement

# Class ManageLinesControl

```
java.lang.Object
|
+--busnet.features.lineManagement.ManageLinesControl
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### ManageLinesControl

```
public ManageLinesControl()
```

## Methods

### deleteBus

```
public void deleteBus()
```

---

### deleteLine

```
public void deleteLine()
```

---



## deleteStop

```
public void deleteStop()
```

---

## getLdWindow

```
public LineDataWindow getLdWindow()
```

---

## getSdWindow

```
public StopDataWindow getSdWindow()
```

---

## saveBus

```
public void saveBus()
```

---

## saveLine

```
public void saveLine()
```

---

## saveStop

```
public void saveStop()
```

---

## setLdWindow

```
public void setLdWindow(LineDataWindow ldWindow)
```

---

## setSdWindow

```
public void setSdWindow(StopDataWindow sdWindow)
```

---

## updateBusTable

```
public void updateBusTable()
```

---

## updateLine

```
public void updateLine()
```

---

## updateLineTable

```
public void updateLineTable()
```

---

## updateStopTable

```
public void updateStopTable()
```

---

**busnet.features.lineManagement**

# Class ManageLinesPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.features.lineManagement.ManageLinesPanel
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class ManageLinesPanel
extends javax.swing.JPanel
```

## Constructors

### ManageLinesPanel

```
public ManageLinesPanel(java.util.ArrayList lineList)
```

## Methods

### addLine

```
public abstract void addLine()
```

---

### getLList

```
public LinkedList getLList()
```

---

### getLineList

```
public java.util.ArrayList getLineList()
```

---

### init

```
public void init()
```

---

### modifyLine

```
public abstract void modifyLine()
```

---

### removeLine

```
public abstract void removeLine()
```

---

## setLList

```
public void setLList(LinkedList lList)
```

---

## setLineList

```
public void setLineList(java.util.ArrayList lineList)
```

---

## updateLineList

```
public void updateLineList()
```

---

**busnet.features.lineManagement**

# Class ManageLinesWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.lineManagement.ManageLinesWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class ManageLinesWindow  
extends Window
```

## Constructors

# ManageLinesWindow

```
public ManageLinesWindow(java.util.ArrayList lineList,  
                           java.util.ArrayList stopList,  
                           java.util.ArrayList busList)
```

## Methods

### clickAddBusBtn

```
public abstract void clickAddBusBtn()
```

---

### clickAddLineBtn

```
public abstract void clickAddLineBtn()
```

---

### clickAddStopBtn

```
public abstract void clickAddStopBtn()
```

---

### clickDelBusBtn

```
public abstract void clickDelBusBtn()
```

---

### clickDelStopBtn

```
public abstract void clickDelStopBtn()
```

---

### clickRemoveLineBtn

```
public abstract void clickRemoveLineBtn()
```

---

## clickUpdateLineBtn

```
public abstract void clickUpdateLineBtn()
```

---

## getMbPanel

```
public ManageBusPanel getMbPanel()
```

---

## getMlPanel

```
public ManageLinesPanel getMlPanel()
```

---

## getMsPanel

```
public ManageStopsPanel getMsPanel()
```

---

## setPanel

```
public void setPanel(java.lang.String panelName)
```

---

**busnet.features.lineManagement**

# Class ManageStopsPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.features.lineManagement.ManageStopsPanel
```

### All Implemented Interfaces:

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

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class ManageStopsPanel  
extends javax.swing.JPanel
```

## Constructors

### ManageStopsPanel

```
public ManageStopsPanel(java.util.ArrayList stopList)
```

## Methods

### clickAddBtn

```
public abstract void clickAddBtn()
```

---

### clickDelBtn

```
public abstract void clickDelBtn()
```

---

### getSearchBar

```
public javax.swing.JTextField getSearchBar()
```

---

### getStopList

```
public java.util.ArrayList getStopList()
```

---

### getTable

```
public javax.swing.JTable getTable()
```

---

## init

```
public void init()
```

---

## loadTable

```
public void loadTable()
```

---

## searchStop

```
public void searchStop()
```

---

## setSearchBar

```
public void setSearchBar(javax.swing.JTextField searchBar)
```

---

## setStopList

```
public void setStopList(java.util.ArrayList stopList)
```

---

## setTable

```
public void setTable(javax.swing.JTable table)
```

---



busnet.features.lineManagement

# Class StopDataWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.lineManagement.StopDataWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **StopDataWindow**  
extends [Window](#)

## Constructors

### StopDataWindow

public **StopDataWindow**()

## Methods

### confirm

public abstract void **confirm**()

---

### getStopIdField

public javax.swing.JTextField **getStopIdField**()

---

## getStopNameField

```
public javax.swing.JTextField getStopNameField()
```

# Package busnet.features.ridesManagement

## Class Summary

[ManageRidesControl](#)

[ManageRidesDataWindow](#)

[ManageRidesWindow](#)

[SubstitutionWindow](#)

---

busnet.features.ridesManagement

## Class ManageRidesControl

```
java.lang.Object
|
+--busnet.features.ridesManagement.ManageRidesControl
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### ManageRidesControl

```
public ManageRidesControl()
```

## Methods

### getDaySelected

```
public int getDaySelected()
```

---

## getLineList

```
public java.util.ArrayList getLineList()
```

## getSelectedLine

```
public Line getSelectedLine()
```

## busnet.features.ridesManagement

## Class ManageRidesDataWindow

```

java.lang.Object
|-- java.awt.Component
|   |-- java.awt.Container
|       |-- java.awt.Window
|           |-- java.awt.Dialog
|               |-- javax.swing.JDialog
|                   |-- Window
|                       |-- busnet.features.ridesManagement.ManageRidesDataWindow

```

### All Implemented Interfaces:

```
java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer,
javax.swing.TransferHandler, javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants
```

< Constructors > < Methods >

```
public abstract class ManageRidesDataWindow
extends Window
```

## Constructors

## ManageRidesDataWindow

[illegible]

## Methods

### addBus

```
public abstract void addBus()
```

---

### addRide

```
public abstract void addRide(int i,  
                             int j)
```

---

### delRide

```
public abstract void delRide(int i,  
                             int j)
```

---

### getAvailableEmployee

```
public java.util.ArrayList getAvailableEmployee(int period)
```

---

### getRideTabPanel

```
public RideTable getRideTabPanel()
```

---

### getrList

```
public RideList getrList()
```

---

### init

```
public void init()
```

---

## save

```
public abstract void save()
```

---

## setRideTabPanel

```
public void setRideTabPanel(RideTable rideTabPanel)
```

---

## setrList

```
public void setrList(RideList rList)
```

---

busnet.features.ridesManagement

# Class ManageRidesWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.ridesManagement.ManageRidesWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class ManageRidesWindow  
extends Window
```

## Constructors

# ManageRidesWindow

```
public ManageRidesWindow(java.util.ArrayList lineList)
```

## Methods

### checkSubstitutions

```
public abstract void checkSubstitutions()
```

---

### confirm

```
public abstract void confirm()
```

---

### getDaySelected

```
public int getDaySelected()
```

---

### getLineList

```
public java.util.ArrayList getLineList()
```

---

### getLineSelected

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

---

### getTabSelectionList

```
public LineList getTabSelectionList()
```

---

## init

```
public void init()
```

---

## notifySubstitution

```
public void notifySubstitution(boolean blink)
```

---

## setDaySelected

```
public void setDaySelected(int daySelected)
```

---

## setLineList

```
public void setLineList(java.util.ArrayList lineList)
```

---

## setLineSelected

```
public void setLineSelected(java.lang.String lineSelected)
```

---

## setTabSelectionList

```
public void setTabSelectionList(LineList tabSelectionList)
```

---

## showSubstitutionWindow

```
public abstract void showSubstitutionWindow()
```

---



busnet.features.ridesManagement

# Class SubstitutionWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.ridesManagement.SubstitutionWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **SubstitutionWindow**  
extends [Window](#)

## Constructors

### SubstitutionWindow

public **SubstitutionWindow**(java.util.ArrayList subList)

## Methods

### doSubstitutionClickBtn

public abstract void **doSubstitutionClickBtn**()

---

### getAvailableEmpList

public java.util.ArrayList **getAvailableEmpList**()

---

## getSubList

```
public java.util.ArrayList getSubList()
```

---

## getTable

```
public javax.swing.JTable getTable()
```

---

## init

```
public void init()
```

---

## loadTable

```
public void loadTable()
```

---

## removeSubstitutionClickBtn

```
public abstract void removeSubstitutionClickBtn()
```

---

## setAvailableEmpList

```
public void setAvailableEmpList(java.util.ArrayList availableEmpList)
```

---

## setSubList

```
public void setSubList(java.util.ArrayList subList)
```

---

## setTable

```
public void setTable(javax.swing.JTable table)
```

# Package busnet.features.shiftManagement

## Class Summary

[DefaultScheduleDataWindow](#)

[ManageScheduleControl](#)

[ManageScheduleWindow](#)

[ManageTemporaryScheduleWindow](#)

[MyShiftWindow](#)

[OvertimeWindow](#)

[TemporaryScheduleDataWindow](#)

---

busnet.features.shiftManagement

## Class DefaultScheduleDataWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.shiftManagement.DefaultScheduleDataWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **DefaultScheduleDataWindow**  
extends [Window](#)

## Constructors

# DefaultScheduleDataWindow

```
public DefaultScheduleDataWindow(ShiftDefaultList sdList)
```

## Methods

### confirm

```
public abstract void confirm()
```

---

### getOldsdList

```
public ShiftDefaultList getOldsdList()
```

---

### getSdList

```
public ShiftDefaultList getSdList()
```

---

### getShiftTable

```
public DefaultScheduleTable getShiftTable()
```

---

### init

```
public void init()
```

---

### setOldsdList

```
public void setOldsdList(ShiftDefaultList oldsdList)
```

---

## setSdList

```
public void setSdList(ShiftDefaultList sdList)
```

---

## setShiftTable

```
public void setShiftTable(DefaultScheduleTable shiftTable)
```

---

busnet.features.shiftManagement

# Class ManageScheduleControl

```
java.lang.Object
|
+--busnet.features.shiftManagement.ManageScheduleControl
```

---

< [Constructors](#) >

---

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

---

## Constructors

## ManageScheduleControl

```
public ManageScheduleControl()
```

---

busnet.features.shiftManagement

# Class ManageScheduleWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.shiftManagement.ManageScheduleWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **ManageScheduleWindow**  
extends [Window](#)

## Constructors

### ManageScheduleWindow

public **ManageScheduleWindow**(java.util.ArrayList employeeList)

## Methods

### addOvertimeClickBtn

public abstract void **addOvertimeClickBtn**()

---

### clickManageTemporarySchedule

public abstract void **clickManageTemporarySchedule**()

---

## clickUpdateDefaultSchedule

```
public abstract void clickUpdateDefaultSchedule()
```

---

## getEmployeeList

```
public java.util.ArrayList getEmployeeList()
```

---

## getSearchBar

```
public javax.swing.JTextField getSearchBar()
```

---

## getTable

```
public javax.swing.JTable getTable()
```

---

## loadTable

```
public void loadTable()
```

---

## searchEmployee

```
public void searchEmployee()
```

---

## setEmployeeList

```
public void setEmployeeList(java.util.ArrayList employeeList)
```

---



# setSearchBar

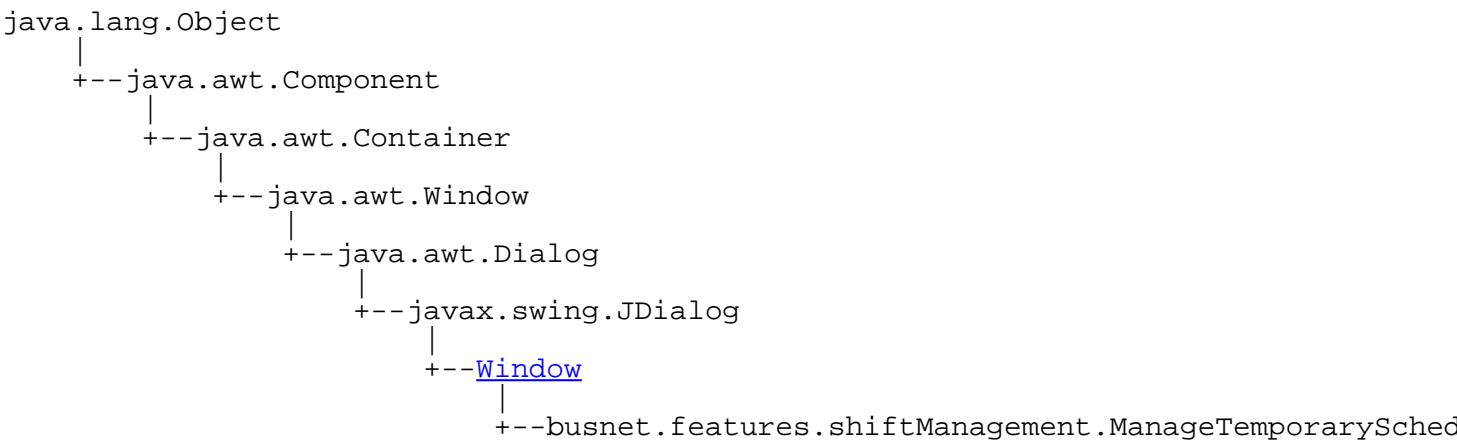
```
public void setSearchBar(javax.swing.JTextField searchBar)
```

# setTable

```
public void setTable(javax.swing.JTable table)
```

busnet.features.shiftManagement

# Class ManageTemporaryScheduleWindow



All Implemented Interfaces:

- java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
- javax.accessibility.Accessible, javax.swing.RootPaneContainer,
- javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public abstract class ManageTemporaryScheduleWindow
extends Window
```

## Constructors

# ManageTemporaryScheduleWindow

```
public ManageTemporaryScheduleWindow(java.util.ArrayList stList)
```

## Methods

## addTemporaryShift

```
public abstract void addTemporaryShift()
```

---

## getStList

```
public java.util.ArrayList getStList()
```

---

## getTable

```
public javax.swing.JTable getTable()
```

---

## init

```
public void init()
```

---

## loadTable

```
public void loadTable()
```

---

## rmvTemporaryShift

```
public abstract void rmvTemporaryShift()
```

---

## setStList

```
public void setStList(java.util.ArrayList stList)
```

---

## setTable

```
public void setTable(javax.swing.JTable table)
```

---

## showTemporaryShift

```
public abstract void showTemporaryShift()
```

---

busnet.features.shiftManagement

## Class MyShiftWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.shiftManagement.MyShiftWindow
```

### All Implemented Interfaces:

```
java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,
javax.accessibility.Accessible, javax.swing.RootPaneContainer,
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants
```

---

< [Constructors](#) >

---

```
public class MyShiftWindow
extends Window
```

## Constructors

## MyShiftWindow

```
public MyShiftWindow(java.lang.String[] shift)
```

---

busnet.features.shiftManagement

# Class OvertimeWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.shiftManagement.OvertimeWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **OvertimeWindow**  
extends [Window](#)

## Constructors

### OvertimeWindow

public **OvertimeWindow**(java.lang.String employee)

## Methods

### addOvertimeClickBtn

public abstract void **addOvertimeClickBtn**()

---

### getDayField

public javax.swing.JComboBox **getDayField**()

---

## getHoursField

```
public javax.swing.JTextField getHoursField()
```

---

## getMonthField

```
public javax.swing.JComboBox getMonthField()
```

---

## getYearField

```
public javax.swing.JTextField getYearField()
```

---

## setDayField

```
public void setDayField(javax.swing.JComboBox dayField)
```

---

## setHoursField

```
public void setHoursField(javax.swing.JTextField hoursField)
```

---

## setMonthField

```
public void setMonthField(javax.swing.JComboBox monthField)
```

---

## setYearField

```
public void setYearField(javax.swing.JTextField yearField)
```

---

busnet.features.shiftManagement

# Class TemporaryScheduleDataWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.features.shiftManagement.TemporaryScheduleDataWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **TemporaryScheduleDataWindow**  
extends [Window](#)

## Constructors

### TemporaryScheduleDataWindow

public **TemporaryScheduleDataWindow**()

### TemporaryScheduleDataWindow

public **TemporaryScheduleDataWindow**(boolean modify)

## Methods

### clickBtnDone

public abstract void **clickBtnDone**()

---

## confirm

```
public abstract void confirm()
```

---

## getDayField

```
public javax.swing.JComboBox getDayField()
```

---

## getMonthField

```
public javax.swing.JComboBox getMonthField()
```

---

## getStList

```
public ShiftTemporaryList getStList()
```

---

## getTsTable

```
public TemporaryScheduleTable getTsTable()
```

---

## getYearField

```
public TextField getYearField()
```

---

## init

```
public void init()
```

---

## setDayField

```
public void setDayField(javax.swing.JComboBox dayField)
```

---

## setMonthField

```
public void setMonthField(javax.swing.JComboBox monthField)
```

---

## setStList

```
public void setStList(ShiftTemporaryList stList)
```

---

## setTsTable

```
public void setTsTable(TemporaryScheduleTable tsTable)
```

---

## setYearField

```
public void setYearField(TextField yearField)
```



# Package busnet.guiElements

## Class Summary

[AddNewBusWindow](#)

[AddRideWindow](#)

[AddSubstitutionWindow](#)

[BigButton](#)

[Button](#)

[CheckBox](#)

[DefaultScheduleTable](#)

[IconButton](#)

[Label](#)

[LineList](#)

[PasswordField](#)

[PlateHolder](#)

[RideTab](#)

[RideTable](#)

[ShiftTab](#)

[StackTraceFrame](#)

[TemporaryScheduleTable](#)

[TextField](#)

[Window](#)

[WrapperPanel](#)

---

busnet.guiElements

# Class AddNewBusWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.guiElements.AddNewBusWindow
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **AddNewBusWindow**  
extends [Window](#)

## Constructors

### AddNewBusWindow

public **AddNewBusWindow**(java.util.ArrayList availableBusList)

## Methods

### clickAddBusBtn

public abstract void **clickAddBusBtn**()

---

### getBusSelected

public java.lang.String **getBusSelected**()

---

## getComboBox

```
public javax.swing.JComboBox getComboBox()
```

---

## setBusSelected

```
public void setBusSelected(java.lang.String busSelected)
```

---

## setComboBox

```
public void setComboBox(javax.swing.JComboBox comboBox)
```

---

busnet.guiElements

# Class AddRideWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.guiElements.AddRideWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class AddRideWindow  
extends Window
```

---

## Constructors

# AddRideWindow

```
public AddRideWindow(java.util.ArrayList availableEmployeeList)
```

## Methods

### clickAddDriverBtn

```
public abstract void clickAddDriverBtn()
```

### getComboBox

```
public javax.swing.JComboBox getComboBox()
```

### setComboBox

```
public void setComboBox(javax.swing.JComboBox comboBox)
```

busnet.guiElements

## Class AddSubstitutionWindow

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- Window
|                       |
|                       +-- busnet.guiElements.AddSubstitutionWindow
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, HasGetTransferHandler, javax.swing.WindowConstants

---

public abstract class **AddSubstitutionWindow**  
extends [Window](#)

## Constructors

### AddSubstitutionWindow

public **AddSubstitutionWindow**(java.util.ArrayList empList)

## Methods

### chose

public abstract void **chose**()

---

### getComboBox

public javax.swing.JComboBox **getComboBox**()

---

### getEmpList

public java.util.ArrayList **getEmpList**()

---

### setComboBox

public void **setComboBox**(javax.swing.JComboBox comboBox)

---

### setEmpList

public void **setEmpList**(java.util.ArrayList empList)

---

busnet.guiElements

# Class BigButton

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.BigButton
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### BigButton

```
public BigButton(java.lang.String littleText,
                 java.lang.String bigText)
```

### BigButton

```
public BigButton(java.lang.String text,
                 javax.swing.ImageIcon icon)
```

## Methods

### click

```
public void click()
```

---

# init

```
public void init()
```

---

busnet.guiElements

## Class Button

```
java.lang.Object
|
+--java.awt.Component
|   |
|   +--java.awt.Container
|       |
|       +--javax.swing.JComponent
|           |
|           +--javax.swing.JPanel
|               |
|               +--busnet.guiElements.Button
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### Button

```
public Button()
```

### Button

```
public Button(java.lang.String text)
```

## Methods

## click

```
public void click()
```

---

## init

```
public void init()
```

---

## isPressed

```
public boolean isPressed()
```

---

## setButtonFont

```
public void setButtonFont(java.awt.Font font)
```

---

## setIcon

```
public void setIcon(java.lang.String imageName)
```

---

## setPressed

```
public void setPressed(boolean pressed)
```

---

## setText

```
public void setText(java.lang.String text)
```

---



busnet.guiElements

# Class CheckBox

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.CheckBox
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### CheckBox

```
public CheckBox(java.lang.String txt)
```

## Methods

### click

```
public void click()
```

---

### isEditable

```
public boolean isEditable()
```

---

## isEnabled

```
public boolean isEnabled()
```

### Overrides:

isEnabled in class java.awt.Component

---

## setEditable

```
public void setEditable(boolean editable)
```

---

## setEnabled

```
public void setEnabled(boolean enabled)
```

### Overrides:

setEnabled in class javax.swing.JComponent

---

busnet.guiElements

# Class DefaultScheduleTable

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.DefaultScheduleTable
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class DefaultScheduleTable
extends javax.swing.JPanel
```

## Constructors

# DefaultScheduleTable

```
public DefaultScheduleTable(ShiftDefaultList sdList)
```

## Methods

### addShift

```
public void addShift(int i,  
                    int j)
```

---

### getDayHours

```
public int[] getDayHours()
```

---

### getSdList

```
public ShiftDefaultList getSdList()
```

---

### getTotalHours

```
public int getTotalHours()
```

---

### init

```
public void init()
```

---

### refreshShift

```
public void refreshShift()
```

---

## removeShift

```
public void removeShift(int i,  
                        int j)
```

---

## setDayHours

```
public void setDayHours(int[] dayHours)
```

---

## setSdList

```
public void setSdList(ShiftDefaultList sdList)
```

---

## setTotalHours

```
public void setTotalHours(int totalHours)
```

---

## toggleShift

```
public void toggleShift(int i,  
                        int j)
```

---

## updateTotalHours

```
public abstract void updateTotalHours()
```

---

busnet.guiElements

# Class IconButton

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.IconButton
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **IconButton**  
extends javax.swing.JPanel

## Constructors

### IconButton

```
public IconButton(java.lang.String text,  
                  java.lang.String icon)
```

## Methods

### click

```
public abstract void click()
```

---

### init

```
public void init()
```

---

## isActive

```
public boolean isActive()
```

---

## isSelected

```
public boolean isSelected()
```

---

## setActive

```
public void setActive(boolean active)
```

---

## setButtonFont

```
public void setButtonFont(java.awt.Font font)
```

---

## setIcon

```
public void setIcon(java.lang.String imageName)
```

---

## setSelected

```
public void setSelected(boolean selected)
```

---

## setText

```
public void setText(java.lang.String text)
```

---

busnet.guiElements

# Class Label

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JLabel
|               |
|               +-- busnet.guiElements.Label
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.SwingConstants,  
javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) >

---

```
public class Label
extends javax.swing.JLabel
```

## Constructors

### Label

```
public Label(java.lang.String s)
```

---

busnet.guiElements

# Class LineList

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.LineList
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

public abstract class **LineList**  
extends javax.swing.JPanel

## Constructors

### LineList

public **LineList**(java.util.ArrayList lineList)

## Methods

### clickSelectBtn

public abstract void **clickSelectBtn**()

---

### getLineIdSelected

public java.lang.String **getLineIdSelected**()

---



## getLineList

```
public java.util.ArrayList getLineList()
```

---

## setLineList

```
public void setLineList(java.util.ArrayList lineList)
```

---

busnet.guiElements

# Class PasswordField

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.text.JTextComponent
|               |
|               +-- javax.swing.JTextField
|                   |
|                   +-- javax.swing.JPasswordField
|                       |
|                       +-- busnet.guiElements.PasswordField
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.Scrollable, javax.swing.SwingConstants,  
javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) >

---

```
public class PasswordField
extends javax.swing.JPasswordField
```

## Constructors

## PasswordField

```
public PasswordField()
```

---

busnet.guiElements

# Class PlateHolder

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.PlateHolder
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### PlateHolder

```
public PlateHolder(java.lang.String plate)
```

## Methods

### setText

```
public void setText(java.lang.String plate)
```

---

busnet.guiElements

# Class RideTab

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.RideTab
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### RideTab

```
public RideTab(java.lang.String content,
               int i,
               int j)
```

## Methods

### add

```
public void add()
```

---

### del

```
public void del()
```

---

## getI

```
public int getI()
```

---

## getJ

```
public int getJ()
```

---

## getStatus

```
public boolean getStatus()
```

---

## getTime

```
public int getTime()
```

---

## init

```
public void init()
```

---

## setI

```
public void setI(int i)
```

---

## setJ

```
public void setJ(int j)
```

---

## setPlate

```
public void setPlate(java.lang.String plate)
```

---

## setStatus

```
public void setStatus(boolean status)
```

---

## setStatus

```
public void setStatus(boolean status,  
                     java.lang.String cf)
```

---

## setTime

```
public void setTime(int i)
```

---

busnet.guiElements

# Class RideTable

```
java.lang.Object  
|  
+-- java.awt.Component  
|   |  
|   +-- java.awt.Container  
|       |  
|       +-- javax.swing.JComponent  
|           |  
|           +-- javax.swing.JPanel  
|               |  
|               +-- busnet.guiElements.RideTable
```

### All Implemented Interfaces:

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

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class RideTable  
extends javax.swing.JPanel
```

## Constructors

---

# RideTable

```
public RideTable(RideList rList)
```

Create the panel.

## Methods

### addRideClickBtn

```
public abstract void addRideClickBtn(int busId,  
                                     int period)
```

---

### addRow

```
public void addRow(java.lang.String plate)
```

---

### delRideClickBtn

```
public abstract void delRideClickBtn(int busId,  
                                     int period)
```

---

### deleteRow

```
public void deleteRow(java.lang.String plate)
```

---

### getStartTime

```
public java.lang.String getStartTime(int i)
```

---

### getrList

```
public RideList getrList()
```

---

## init

```
public void init()
```

---

## setSelected

```
public void setSelected(int i,  
                        int j,  
                        boolean status)
```

---

## setSelected

```
public void setSelected(int i,  
                        int j,  
                        boolean status,  
                        java.lang.String cf)
```

---

## setrList

```
public void setrList(RideList rList)
```

---

**busnet.guiElements**

# Class ShiftTab

```
java.lang.Object  
|  
+-- java.awt.Component  
|   |  
|   +-- java.awt.Container  
|       |  
|       +-- javax.swing.JComponent  
|           |  
|           +-- javax.swing.JPanel  
|               |  
|               +-- busnet.guiElements.ShiftTab
```

### All Implemented Interfaces:

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

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class ShiftTab
```

extends javax.swing.JPanel

## Constructors

### ShiftTab

```
public ShiftTab(int i,  
                int j)
```

## Methods

### click

```
public abstract void click()
```

---

### getI

```
public int getI()
```

---

### getJ

```
public int getJ()
```

---

### getLabel

```
public javax.swing.JLabel getLabel()
```

---

### setAvailable

```
public void setAvailable(boolean available)
```

---



## setEditable

```
public void setEditable(boolean b)
```

---

## setI

```
public void setI(int i)
```

---

## setJ

```
public void setJ(int j)
```

---

## setLabel

```
public void setLabel(javax.swing.JLabel label)
```

---

## setPresent

```
public void setPresent(boolean present)
```

---

busnet.guiElements

# Class StackTraceFrame

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- busnet.guiElements.StackTraceFrame
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) >

---

```
public class StackTraceFrame
extends javax.swing.JDialog
```

## Constructors

### StackTraceFrame

```
public StackTraceFrame(java.lang.String s)
```

---

busnet.guiElements

# Class TemporaryScheduleTable

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.TemporaryScheduleTable
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### TemporaryScheduleTable

```
public TemporaryScheduleTable()
```

## Methods

### addShift

```
public void addShift(int i)
```

---

### getStList

```
public ShiftTemporaryList getStList()
```

---

## init

```
public void init()
```

---

## loadShiftTemporaryList

```
public void loadShiftTemporaryList(ShiftTemporaryList stList,  
                                     boolean editable)
```

---

## refreshShift

```
public void refreshShift()
```

---

## removeShift

```
public void removeShift(int i)
```

---

## setEditable

```
public void setEditable(boolean b)
```

---

## setStList

```
public void setStList(ShiftTemporaryList stList)
```

---

## toggleShift

```
public void toggleShift(int i)
```

---

busnet.guiElements

# Class TextField

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.text.JTextComponent
|               |
|               +-- javax.swing.JTextField
|                   |
|                   +-- busnet.guiElements.TextField
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.Scrollable, javax.swing.SwingConstants,  
javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) >

---

```
public class TextField
extends javax.swing.JTextField
```

## Constructors

### TextField

```
public TextField()
```

---

busnet.guiElements

# Class Window

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- busnet.guiElements.Window
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

## Direct Known Subclasses:

[EmployeeDataWindow](#), [EmployeesWindow](#), [SalaryWindow](#), [BusDataWindow](#), [LineDataWindow](#),  
[ManageLinesWindow](#), [StopDataWindow](#), [ManageRidesDataWindow](#), [ManageRidesWindow](#),  
[SubstitutionWindow](#), [DefaultScheduleDataWindow](#), [ManageScheduleWindow](#),  
[ManageTemporaryScheduleWindow](#), [MyShiftWindow](#), [OvertimeWindow](#),  
[TemporaryScheduleDataWindow](#), [AddNewBusWindow](#), [AddRideWindow](#), [AddSubstitutionWindow](#)

---

< [Constructors](#) > < [Methods](#) >

---

```
public class Window
extends javax.swing.JDialog
```

## Constructors

## Window

```
public Window(java.lang.String title,
               java.lang.String subtitle,
               java.lang.String icon)
```

## Methods

## setVisible

```
public void setVisible(boolean visible)
```

### Overrides:

setVisible in class java.awt.Dialog

---

busnet.guiElements

## Class WrapperPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.guiElements.WrapperPanel
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) >

---

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

## Constructors

### WrapperPanel

```
public WrapperPanel(javax.swing.JPanel nestedPanel)
```

# Package busnet.login

## Class Summary

[LoginControl](#)

[LoginPanel](#)

[PasswordPanel](#)

---

busnet.login

## Class LoginControl

```
java.lang.Object
|
+--busnet.login.LoginControl
```

---

< [Constructors](#) > < [Methods](#) >

---

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

## Constructors

### LoginControl

```
public LoginControl()
```

## Methods

### checkUserCredential

```
public void checkUserCredential()
```

---

### getIWindow

```
public LoginPanel getIWindow()
```

---



## getpWindow

```
public PasswordPanel getpWindow()
```

---

busnet.login

## Class LoginPanel

```
java.lang.Object
|
+--java.awt.Component
|   |
|   +--java.awt.Container
|       |
|       +--javax.swing.JComponent
|           |
|           +--javax.swing.JPanel
|               |
|               +--busnet.login.LoginPanel
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

```
public abstract class LoginPanel
extends javax.swing.JPanel
```

## Constructors

### LoginPanel

```
public LoginPanel()
    Create the panel.
```

## Methods

### confirm

```
public abstract void confirm()
```

---

## getPassField

```
public PasswordField getPassField()
```

## getUserField

```
public javax.swing.JTextField getUserField()
```

busnet.login

# Class PasswordPanel

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- busnet.login.PasswordPanel
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

< [Constructors](#) > < [Methods](#) >

```
public abstract class PasswordPanel
extends javax.swing.JPanel
```

## Constructors

### PasswordPanel

```
public PasswordPanel()
```

Create the panel.

## Methods

## confirm

```
public abstract void confirm()
```

---

## getPasswordField

```
public javax.swing.JPasswordField getPasswordField()
```

---

## getPasswordField\_1

```
public javax.swing.JPasswordField getPasswordField_1()
```

# Package busnet.mailManagement

## Class Summary

### [MailInterface](#)

busnet.mailManagement

## Class MailInterface

```
java.lang.Object
|
+--busnet.mailManagement.MailInterface
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

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

## Fields

### days

```
public static java.lang.String[] days
```

### periods

```
public static java.lang.String[] periods
```

## Constructors

### MailInterface

```
public MailInterface()
```

## Methods

## sendDefaultScheduleModifiedMail

[illegible]

## sendNewHiringMail

[illegible]

## sendResetPasswordMail

[illegible]

## sendTempScheduleModifiedMail

[illegible]

## sendTempScheduleRemovedMail

[illegible]