# **Customer**

### Constructors

// Customer

//desc: Constructs a Customer object with empty string values.

**Customer()**

// Customer

//desc: Constructs a Customer object

**Customer(Customer c)**

// Customer

//params: id, first name, last name, middle name, maiden last name, phone, suffix and address Strings

// that are not modified in the constructor

//desc: Constructs a Customer object with the argument values

**Customer(int id, String fn, String ln, String mn, String mln, String phone, String suffix, String  
 address)**

Initializes the Customer object with argument values.

### Accessors

//getFirstName

//desc: Returns the customer first name variable

//return: String

**String getFirstName()**

//getLastName

//desc: Returns the customer last name variable

//return: String

**String getLastName()**

//getPhone

//desc: Returns the customer phone number variable.

//return: String

**String getPhone()**

**//**getMiddleName

//desc: Returns the customer middle name variable.

//return: String

**String getMiddleName()**

//getMaternalLastName

//desc: Returns the customer maternal last name variable.

//return: String  
**String getMaternalLastName()**

//getPrefix

//desc: Returns the customer prefix variable.

//return: String

**String getPrefix()**

//getSuffix

//desc: Returns the customer suffix variable.

//return: String

**String getSuffix()**.

//getAddress

//desc: Returns the customer address variable.

//return: String

**String getAddress()**

### Mutators

//setFirstName

//params: String value that represents the customer first name

//desc: Modifies the customer first name variable with the given argument

**void setFirstName(String fn)**

//setLastName

//params: String value that represents the customer last name

//desc: Modifies the customer last name variable with the given argument

**void setLastName(String ln)**

//setPhone

//params: String value that represents the customer phone number

//desc: Modifies the customer phone variable with the given argument

**void setPhone(String phn)**

//setMiddleName

//params: String value that represents the customer middle name

//desc: Modifies the customer middle name variable with the given argument

**void setMiddleName(String mn)**

//setMaternalLastName

//params: String value that represents the customer maternal last name

//desc: Modifies the customer maternal last name variable with the given argument

**void setMaternalLastName(String mln)**

//setPrefix

//params: String value that represents the customer prefix

//desc: Modifies the customer prefix variable with the given argument

**void setPrefix(String pre)**

//setSuffix

//params: String value that represents the customer suffix

//desc: Modifies the customer suffix variable with the given argument

**void setSuffix(String sfx)**

//setAddress

//params: String value that represents the customer address

//desc: Modifies the customer address variable with the given argument.

**void setAddress(String addr)**

### Miscellaneous

**//**toString

//desc: Returns a string that contains all information about a customer.

//return: String

**String toString()**

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# **DataHandler**

### Constructors

//DataHandler

//desc: Constructs a DataHandler object with empty DB connection String

**DataHandler()**

**//**SetDatabaseConnectionString

//params: String argument representing the database connection String

//desc: Modifies the database connection string variable with the given argument

**SetDatabaseConnectionString(String dbcs)**

### Query Functions

//retrieveCustomer

//params: Integer that represents the Customer ID to be retrieved

//desc: Queries the database for a customer and returns it if found, and null if not

// return: Customer object

**queryCustomer(int CustomerID)**

//retrieveInvoice

//params: Integer that represents the Invoice ID to be retrieved

//desc: Queries the database for an Invoice and returns it if found, and null if not

// return: Invoice object

**queryInvoice(int InvoiceID)**

//retrieveCheck

//params: Integer that represents the Check ID to be retrieved

//desc: Queries the database for a Check and returns it if found, and null if not

// return: Check object

**queryCheck(int checkID)**

//retrieveUser

//params: Integer that represents the User ID to be retrieved

//desc: Queries the database for a User and returns it if found, and null if not

// return: User object

**queryUser(int userID)**

### Customer Handler

//updateCustomer

//params: Customer object

//desc: Queries and updates the customer from the database

// Returns true if successful and false if not

//return: Boolean

**updateCustomer(Customer c)**

//createCustomer

//params: Customer object

//desc: Inserts a new customer to the database with argument customer data

// Returns true if successful and false if not

//return:Boolean

**ceateCustomer(Customer c)**

//removeCustomer

//params: Customer object representing the customer to be removed from database

//desc: Deletes a customer from the database using the argument object

// Returns true if successful and false if not

//return: Boolean

**removeCustomer(Customer c)**

### Invoice Handler

//updateInvoice

//params: Invoice object

//desc: Queries and updates the invoice from the database

// Returns true if successful and false if not

//return: Boolean

**updateInvoice(Invoice i)**

//createInvoice

//params: Invoice object

//desc: Inserts a new Invoice to the database with argument customer data

// Returns true if successful and false if not

//return: Boolean

**createInvoice(Invoice i)**

//removeInvoice

//params: Customer object representing the invoice to be removed from database

//desc: Deletes an invoice from the database using the argument object

// Returns true if successful and false if not

//return: Boolean

**removeInvoice(Invoice i)**

### Check Handler

//updateCheck

//params: Check object

//desc: Queries and updates the Check from the database

// Returns true if successful and false if not

//return: Boolean

**updateCheck(Check c)**

//createCheck

//params: Check object

//desc: Inserts a new Check to the database with argument customer data

// Returns true if successful and false if not

//return:Boolean

**createCheck(Check c)**

//removeCheck

//params: Check object representing the customer to be removed from database

//desc: Deletes a check from the database using the argument object

// Returns true if successful and false if not

//return: Boolean

**removeCheck(Check c)**

### Miscellaneous

**Customer[ ] getAllCustomers()**

Returns an array of customer objects retrieved by executing a query.

**Invoice[ ] getAllInvoices()**

Returns an array of invoice objects retrieved by executing a query.

**Check[ ] getAllChecks()**

Returns an array of check objects retrieved by executing a query.

**void addCustomer(Customer cust)**

Inserts argument customer object into the database by executing a query.

**void addInvoice(Invoice inv)**

Inserts argument invoice object into the database by executing a query.

**void addCheck(Check chk)**

Inserts argument check object into the database by executing a query.

**void updateCustomer(Customer cust)**

Modifies a customer from the database by executing a query.

**updateInvoice()**

Modifies an Invoice from the database by executing a query.

**updateCheck()**

Modifies a check from the database by executing a query.

**deleteCustomer(int custID)**

Deletes a customer from the database by executing a query. The argument defines which customer will be deleted.

**deleteInvoice(int InvoiceID)**

Deletes an invoice from the database by executing a query. The argument defines which invoice will be deleted.

**deleteCheck(int checkID)**

Deletes a check from the database by executing a query. The argument defines which check will be deleted.

**toString()**

Returns a string that contains information about the DataHandler class.

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# **Check**

## Constructors

**Check()**

Initializes the Check object with default values.

**Check(Check c)**

Initializes the Check object by copying values from the argument check object.

**Check(float amt, int rn, int cn, Date cd)**

Initializes the Customer object with argument values.

## Accessors

**float getAmount()**

Returns the check amount variable.

**int getCheckNumber()** Returns the check number variable.

**int getRoutingNumber()**

Returns the routing number variable.

**Date getCheckDate()**

Returns the check date variable.

**String getCompanyName()**

Returns the company name variable.

## Mutators

**void setAmount(float amt)**

Modifies the check amount variable with the given argument.

**void setCheckNumber(int cn)**

Modifies the check number variable with the given argument.

**void setRoutingNumber(int rn)**

Modifies the check routing number variable with the given argument.

**void setCheckDate(Date d)**

Modifies the check date variable with the given argument.

**void setCompanyName(String co)**

Modifies the check company name variable with the given argument.

## Miscellaneous

**boolean equals(Check c)**

Returns true if the argument check object is equal to the current check object.

**String toString()**

Returns a string that contains information about the Check class.

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# **Invoice**

## Constructors

**Invoice()**

Initializes the Invoice object with default values.

**Invoice(Invoice inv)**

Initializes the Invoice object by copying the values from the argument object.

**Invoice(Date id, Check[] chkArr, Customer c, User u)**

Initializes the Invoice object with the argument values.

## Accessors

**Date getInvoiceDate()**

Returns the Invoice Date variable.

**Check[ ] getChecksArray()**

Returns the check array.

**Customer getCustomer()**

Returns the Customer object associated with the invoice.

**User getUser()**

Returns the User object associated with the invoice.

## Mutators

**setInvoiceDate(Date invDate)**

Modifies the invoice date variable with the given argument.

**setChecksArray(Check[] chkArr)**

Modifies the checks array with the given argument.

**setCustomer(Customer cust)**

Modifies the Customer object with the given argument.

**setUser(User u)**

Modifies the User object with the given argument.

## Miscellaneous

**boolean equals(Invoice inv)**

Returns true if the argument Invoice object is equal to the current Invoice object.

**int compareTo(Invoice inv)**

Returns 1 if the current object’s ID is greater than the ID of the argument, -1 if less, and 0 if equal.

**String toString()**

Returns a string that contains information about the Invoice class.

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# **User**

## Constructors

**User()**

Initializes the User object with default values.

**User(User u)**

Initializes the User object by copying the values from the User object argument.

**User(String un, String pwd)**

Initializes the User object with the argument values.

## Accessors

**getUsername()**

Returns the username value.

**getPassword()**

Returns the password value.

## Mutators

**setUsername(String un)**

Modifies the username value with the given argument.

**setPassword(String pwd)**

Modifies the password value with the given argument.

## Miscellaneous

**boolean equals(User u)**

Returns true if the argument User object is equal to the current User object.

**int compareTo(User u)**

Returns 1 if the current object’s ID is greater than the ID of the argument, -1 if less, and 0 if equal.

**String toString()**

Returns a string that contains information about the User class.

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