**Staff Read registered customer data flow**

customers

custID: int

firstName: String

lastName: String

address1: String

address1: String

city: String

state: String

zip: String

email: String

Read Servlet

Ojdbc6.jar driver

Oracle Database

dbConn.properties

driver.name = oracle.jdbc.OracleDriver

server.name = jdbc:oracle:thin:@biz-delphi.cloudapp.net:1521:Delphi

user.name = MS3300SP170XX

user.password = ms3300sp170XX

Create db connection

Create preparedStatement

Setup PreparedStated with query

Send query results into table

ReadQuery Class

Set up ReadQuery object

Called from:

staff.jsp

AddServlet

UpdateServlet

DeleteServlet

Table of registered customers

staff.jsp View all customers

**Add a customer data flow**

customers

custID: int

firstName: String

lastName: String

address1: String

address1: String

city: String

state: String

zip: String

email: String

dbConn.properties

driver.name = oracle.jdbc.OracleDriver

server.name = jdbc:oracle:thin:@biz-delphi.cloudapp.net:1521:Delphi

user.name = MS3300SP170XX

user.password = ms3300sp170XX

Return to Add Servlet after record has been added

AddServlet

Ojdbc6.jar driver

Oracle Database

Set up AddQuery object

Pass studentName, address, city, state, zip,

email

Create db connection

Create preparedStatement

Setup PreparedStated with query

Send query toad record to db

AddQuery Class

Called from:“Add a customer”

Link in read.jsp, allow staff to add a customer without customer’s registration.

Read request

ReadServlet

AddForm Servlet

Server side

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Client side

**customer List (Available to staff only)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| custID | FirstN | lastN | Addr1 | Addr2 | City | State | Zip | Email |  |
| 1 | XXX | XXX | XXX | XXX | XXX | XXX | XXX | XXX | Update/  delete |
| 2 | YYY | YYY | YYY | YYY | YYY | YYY | YYY | YYY | Update/  delete |

Add a customer

add.jsp

**Add a customer**

|  |  |
| --- | --- |
| First Name |  |
| Last Name |  |
| Address1 |  |
| Address2 |  |
| City |  |
| State |  |
| Zip |  |
| Email |  |

**Clear Submit**

**Delete a customer data flow**

customers

custID: int

firstName: String

lastName: String

address1: String

address1: String

city: String

state: String

zip: String

email: String

dbConn.properties

driver.name = oracle.jdbc.OracleDriver

server.name = jdbc:oracle:thin:@biz-delphi.cloudapp.net:1521:Delphi

user.name = MS3300SP170xx

user.password = ms3300sp170xx

Read request

ReadServlet

DeleteServlet

Ojdbc6.jar driver

Oracle Database

Create db connection

Create preparedStatement

Setup PreparedStated with query

Send query to delete record from db

Set up DeleteQuery object

Pass custID (pk)

DeleteQuery Class

Return to Delete Servlet after record has been delete

Called from:

“Delete” Link in read.jsp

Server side

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Client side

**Customer List (Available to staff only)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| custID | FirstN | lastN | Addr1 | Addr2 | City | State | Zip | Email |  |
| 1 | XXX | XXX | XXX | XXX | XXX | XXX | XXX | XXX | Update/  delete |
| 2 | YYY | YYY | YYY | YYY | YYY | YYY | YYY | YYY | Update/  delete |

Add a student

**Update customer data flow:**

Update record matching custID

Ojdbc6.jar driver

Oracle Database

UpdateQuery Class

Set up UpdateQuery object pass custID, customerName, address, city, state, email, zip

Return to UpdateCustomerservlet after record has been update

dbConn.properties

driver.name = oracle.jdbc.OracleDriver

server.name = jdbc:oracle:thin:@biz-delphi.cloudapp.net:1521:Delphi

user.name = MS3300SP170xx

user.password = ms3300sp170xx

Retrieve record matching custID

UpdateCustomerServlet

ReadRecord Class

Set up ReadRecord object pass custID

Call read servlet

Record passed in as student object

customers

custID: int

firstName: String

lastName: String

address1: String

address1: String

city: String

state: String

zip: String

email: String

Read Servlet

UpdateForm Servlet

Called from “update” link custID passed as parameter

Server side

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Client side

Table is displayed with updated info

**Student List**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| custID | FirstN | lastN | Addr1 | Addr2 | City | State | Zip | Email |  |
| 1 | XXX | XXX | XXX | XXX | XXX | XXX | XXX | XXX | Update/  delete |
| 2 | YYY | YYY | YYY | YYY | YYY | YYY | YYY | YYY | Update/  delete |

Add a student

updateForm.jsp

**Update a customer**

.jsp page is called and populated with customer object details

|  |  |
| --- | --- |
| First Name | **Xxxx** |
| Last Name | **xxxx** |
| Address1 | **Xxxx** |
| Address2 | **Xxxxx** |
| City | **Xxxxx** |
| State | **Xxxxxx** |
| Zip | **Xxxxx** |
| Email | **Xxxxx** |

**Clear Submit**

Pass form details as parameter

**Search customer flow:**

customers

custID: int

firstName: String

lastName: String

address1: String

address1: String

city: String

state: String

zip: String

email: String

dbConn.properties

driver.name = oracle.jdbc.OracleDriver

server.name = jdbc:oracle:thin:@biz-delphi.cloudapp.net:1521:Delphi

user.name = MS3300SP17018

user.password = ms3300sp17018

SearchQuery Class

Ojdbc6.jar driver

Oracle Database

Search Servlet

Pass the table of search results to read.jsp

Table is displayed with search results

searchVal Passed as parameter

Server side

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Client side

**customer List**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| custID | FirstN | lastN | Addr1 | Addr2 | City | State | Zip | Email |  |
| 1 | XXX | XXX | XXX | XXX | XXX | XXX | XXX | XXX | Update/  delete |
| 2 | YYY | YYY | YYY | YYY | YYY | YYY | YYY | YYY | Update/  delete |

Add a student

Search.jsp

**Search customer**

Search by name

|  |
| --- |
|  |

**Submit**

**customer List**

View all customers

Search customer