**Application description**

These websites are personal information management system for users to register, delete and other managements

--------Now there are four pages of all project. First is User page, user can type information into database or create an account to do next steps like update, delete and so on. These values would be stored in databases as a table form. Another page is Purchase page, user input their request such as favourite Book name and author to record in personal information and they would receive delivery of their order from shop if this system apply in business of book sell. One page is User detail present about user like what kind of book their want to have, where their live to make delivery can come true and other information like name, phone and so on. The last page is edit user information like delete or update to make sure data update all the time.

When User page be opened, it shows a web with four rows about two text labels and input labels, one row is command link to view all user’s details. Last row with two buttons that allows users can login or register into system

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Details page represent all of database from table and it also shows data as a form table type with Username, City, First name, Book name, Book author and action on first row inside table. And all of values will be output according to the column type. Action column contains two command: Delete and Information update. Delete allows delete current row values and if it success would refresh and update current page. Information update make a new page to users input values and save then change it on database.

On Update page, there are five values can be input but only four values can be changed. The last value is confirming username, if this value equal to table value of username then it execute update otherwise keep current values.

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**Architecture**

The development environment is Eclipse -java EE.Eclipse is an [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) (IDE) used in [computer programming](https://en.wikipedia.org/wiki/Computer_programming), and is the most widely used Java IDE.[[6]](https://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-6) It contains a base [workspace](https://en.wikipedia.org/wiki/Workspace) and an extensible [plug-in](https://en.wikipedia.org/wiki/Plug-in_(computing)) system for customizing the environment. Eclipse is written mostly in [Java](https://en.wikipedia.org/wiki/Java_(programming_language)) and its primary use is for developing Java applications, but it may also be used to develop applications in other [programming languages](https://en.wikipedia.org/wiki/Programming_language) via plug-ins, including: [Ada](https://en.wikipedia.org/wiki/Ada_(programming_language)), [ABAP](https://en.wikipedia.org/wiki/ABAP), [C](https://en.wikipedia.org/wiki/C_(programming_language)), [C++](https://en.wikipedia.org/wiki/C%2B%2B), [COBOL](https://en.wikipedia.org/wiki/COBOL), [D](https://en.wikipedia.org/wiki/D_(programming_language)), [Fortran](https://en.wikipedia.org/wiki/Fortran), [Haskell](https://en.wikipedia.org/wiki/Haskell_(programming_language)), [JavaScript](https://en.wikipedia.org/wiki/JavaScript), [Julia](https://en.wikipedia.org/wiki/Julia_(programming_language)),[[7]](https://en.wikipedia.org/wiki/Eclipse_(software)#cite_note-7) [Lasso](https://en.wikipedia.org/wiki/Lasso_(programming_language)), [Lua](https://en.wikipedia.org/wiki/Lua_(programming_language)), NATURAL, [Perl](https://en.wikipedia.org/wiki/Perl), [PHP](https://en.wikipedia.org/wiki/PHP), [Prolog](https://en.wikipedia.org/wiki/Prolog), [Python](https://en.wikipedia.org/wiki/Python_(programming_language)), [R](https://en.wikipedia.org/wiki/R_(programming_language)), [Ruby](https://en.wikipedia.org/wiki/Ruby_(programming_language)) (including [Ruby on Rails](https://en.wikipedia.org/wiki/Ruby_on_Rails) framework), [Rust](https://en.wikipedia.org/wiki/Rust_(programming_language)), [Scala](https://en.wikipedia.org/wiki/Scala_(programming_language)), [Clojure](https://en.wikipedia.org/wiki/Clojure), [Groovy](https://en.wikipedia.org/wiki/Groovy_(programming_language)), [Scheme](https://en.wikipedia.org/wiki/Scheme_(programming_language)), and [Erlang](https://en.wikipedia.org/wiki/Erlang_(programming_language)). It can also be used to develop documents with [LaTeX](https://en.wikipedia.org/wiki/LaTeX) (via a TeXlipse plug-in) and packages for the software [Mathematica](https://en.wikipedia.org/wiki/Mathematica). Development environments include the Eclipse Java development tools (JDT) for Java and Scala, Eclipse CDT for C/C++, and Eclipse PDT for PHP, among others.

——reference from WIKIPEDIA

This project is designed as Java Server Faces type. It use java language to program on java files and present it at xhtml files. Xhtml is familiar with html they have same form, layout and widget

MySQL play databases role on the whole time. It is an [open-source](https://en.wikipedia.org/wiki/Open-source) [relational database management system](https://en.wikipedia.org/wiki/Relational_database_management_system) (RDBMS).Its name is a combination of "My", the name of co-founder [Michael Widenius](https://en.wikipedia.org/wiki/Michael_Widenius)' daughter,[[8]](https://en.wikipedia.org/wiki/MySQL#cite_note-8) and "[SQL](https://en.wikipedia.org/wiki/SQL)", the abbreviation for [Structured Query Language](https://en.wikipedia.org/wiki/Structured_Query_Language). The MySQL development project has made its [source code](https://en.wikipedia.org/wiki/Source_code) available under the terms of the [GNU General Public License](https://en.wikipedia.org/wiki/GNU_General_Public_License), as well as under a variety of [proprietary](https://en.wikipedia.org/wiki/Proprietary_software) agreements. MySQL was owned and sponsored by a single [for-profit](https://en.wikipedia.org/wiki/Business) firm, the [Swedish](https://en.wikipedia.org/wiki/Sweden) company [MySQL AB](https://en.wikipedia.org/wiki/MySQL_AB), now owned by [Oracle Corporation](https://en.wikipedia.org/wiki/Oracle_Corporation).[[9]](https://en.wikipedia.org/wiki/MySQL#cite_note-sunacquire-9) For proprietary use, several paid editions are available, and offer additional functionality. ——reference from WIKIPEDIA

Programmers use it to build tables in databases for storing data. One database can have several tables inside, and one table also has multiple rows and columns to store information. Every table basic has primary key and only one for one table, it also has foreign key to connect another tables primary key

Apache Tomcat make a bridge between Eclipse and MySQL databases

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**Issues**

This project functions first contain add, delete and update values management on table.

1. Eclipse connect database failed
2. Delete part had some problems cause data can’t be delete as usual

On java control file, it has method<**public** **void** deleteCustomer(Customer customer)> to control DAO file and it also be control by xhtml command link action =”#{customerControl.deleteCustomer(c)}”.If method of <**public** **void** deleteCustomer(Customer customer)> name “customer” same as action =”#{customerControl.deleteCustomer(c)} value(c), it can’t have right to access databases and change it.

1. Update value into has some problems in DAO file about <**public** **void** updateCustomer(Customer c)>

Actually no problems in DAO file, the reason of update failed because the action has some mistake, the value inside brackets shouldn’t be “c” C:\Users\Me\AppData\Roaming\Tencent\Users\1441170266\QQ\WinTemp\RichOle\JZUBAP%83ZS[F@UN(OVPHP3.png

On previous xhtml file, delete action is (c) C:\Users\Me\AppData\Roaming\Tencent\Users\1441170266\QQ\WinTemp\RichOle\A%E9NM}T(VAZYH~7[}4DZYC.png

Because it has already set table values as “c” 

But on other pages it keep default setting so correct execute should like this

C:\Users\Me\AppData\Roaming\Tencent\Users\1441170266\QQ\WinTemp\RichOle\)L5U1Q}75SLQEUHQD%KE1]J.png

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**Data Flow Diagram**

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**Data Model**

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**Installation guide**

To make sure website work success, computer should have wampsever and origin database table

Wampsever can be download from [here](http://www.wampserver.com/en/download-wampserver-32bits/) and in case it can’t run ,check your computer to install [vcredist.64](https://www.microsoft.com/en-us/download/details.aspx?id=14632)

Then open cmd and access into Mysql folder : cd 

And import database by typing mysql -u root -p <”database path\database name.sql”

If users want to create own database they can use code like this 

Just remember open wampsever before launch website.

GitHub link: https://github.com/QiFuChina/Semester-Project