The Codefathers

# Sean Fitzgerald’s

## Personal report

#### Week 1

Met up with my team for the first week.

#### Week 2

Was the secretay for this week and kept the minutes of the meetings, Via writen record and recordings.Also prepared some slides with my team mates for the presentation on Friday where we decided to chose the DVD management system, after much deliberation.

#### Week 3

Not much done this week just starting some diagrams and meeting my chairperson requirements of making agendas for each meeting.

#### Week 4

Finishing off the high level system architecure diagram from last week as well as the class diagram for the slides needed for Friday.

#### Week 5

Worked on setting up the JDBC with a java program that would interact with a MySql database.

Downloaded a free server called WAMP server which is a collection of MySql database, Apachi and a PHPadmin on a windows machinie. I chose this because it is an quick and easy to implement software package installation what also allows for a possible website implementation of the DVD management system to be run further down the development cycle. Anotehr useful note this since the MySQL database is running as a server this can allow for multiple terminals to access it allowing for redundency incase of terminal failure. However keeping a backup of the database will be more important for database redundency.

The connection is through a JDBC driver called MySQL conncector/J which is a type four JDBC driver. A type four driver is Native protocol driver or “Pure Java Driver”.These drivers are platform independent as they are installed inside of the JVM (Java Virtual Machine) of the client.This provides better proformance than type one and two drivers as there is no overhead of conversion calls.Direct connection to the database server allowing for better preformance.Debugging is all implemented within the JVM as well.

The java program can connect to the MySQL database on a 3306 port and will so present the results to my team members on Friday 1/3/13.

#### Week 6

* Monday: Was ment to meet up with Olzhas this morning at 11 am, as was regualrly scheduled, to work on the ERD and the SQL queries for the creation of the tables in the Database that I have set up. Has not shown up today and attemps to contact him have failed. Will try again tomorrow. If he doesn’t contact me or show up I will start on setting up a GITHUB connection for the application as this will help with version control and will allow for each member to access updated verions of the application as it is being developed, independently of each other.
* Friday: GitHub has been set up and allocated permissions to each team member of the group. Oizhas has finished the write ups of the populates however the creations of the tables into the database have encounted errors.

#### Week 7

* Thursday: Due to some unforseen additional work (team peresentation), I am only finishing my work on the database now. Origionaly the database statements such as the creates, populations and example queries were to be handled by Olzhas. However I would like to note that these were to be finished by him on week 5 but due to delays and poor quality of work I will have to finish them as my own work on the database connection with the java application rely heavily on the database functioning properly. When the database is finished I will work on writing functional code for the java MySql databased connection class that I have been developing for the Gui that Dennis and Paul have been coding up till now. I will note any problems and any relevent information in this document as I proceed with my work. Which will continue into firday and the weekend probably. The aim being to have fully functioning database and database connectivity for next Monday or due to this being a bank holiday weekend, for next Tuesday. This is so my other team members can properly test and upgrade the application next week.
* Customer table successfully created in database.
* Employee table will be droped for now as I believe that the database users will suffice for now however further research is needed.

Note: this is because the jdbc to successfully connect to the database it must have a username and a password. Further security may be needed as this my seem to weak. Also while I suspect that there is a sql statement in MySql that could call the database into creating a new user and password with relevent permissions. However I am not certain and so this needs further research.

* The stock table has been recreated and is successfully created in the database.
* The Dvd tables create has been recreated and now works which it had not worked before. Dvd table successfully in database.
* Recreated the Rented table statements which were not working and are still not working due to a new error. Error : Supports transactions, row-level locking, and foreign keys. This means that this table cannot be created in the database untill I solve this error. Note again this all should have been handled two weeks ago by Olzhas.
* It seems this error is related to how two of the columns in the table rented, custid and dvdid are both intended to be foregin keys related to the dvd and customer tables. As removing the forgien key statements caused the table to be accepted by the database.I have narrowed this down again to only one forgein key which is the dvdid key, as the statement runs correctly with the dvdid forgien key removed. But not if the dvdid key is included and the custid key removed.
* Solved apparently if the dvdid referenced is unsigned and the dvdid in the rented table is not unsigned this reaised the error. This has been corrected and the Rented table is now successfully in the database.
* Now proceeding to populate the database with Oizhas’s inserts.
* Sock and customer tables have been populated. Currently have an error with the Dvd table inserts. As Oizhas did not account for there being only four items of stock in the stock table he has been referencing this up to 19 without there being 19 different items of stock. Altering accordingly.DVD inserts successful.
* Error risen with the renting population inserts. Sysdate was not recoginsed.I have Altered the date field in the rented table to datetime for more accuracy and now use the recognised function NOW() in place of datetime. This seems to have fixed the problem and the rows have been inserted. Population of database has been completed. First version of database is in acceptable condition I think.
* Will commence on adding further java MySql connectivity class tommorrow.

#### Week 8

* Monday 18/03/13:

Obtained sql statements off Oizhas that create the user and assign them privilages on the database as well as assiegning them a password.

I now am starting to make the methods and fill in the rest of the methods in the model class. This is for the functionality needed to have the java program opterate with the database.

* First : Write the constructor so that the user of the class has to pass in their username and password of the database. This will be assigned to two private strings which will represent the username and password for each connection to the database which will be called in each method.
* Completed. On another note the jdbc program is now creating users in the MySql databse successfully. However to note it is on the MYSQL server by the looks of it, we may have to spesify the database,tables and any other adminstrator privileges.
* The java class is now creating the user, password and granting the employee privileges per table of a database. Just need exact prileges and the employee is set.
* Tuesday 19/03/13:

Added more to the jdbc functions.

Have a few questions for my team members about how the return queries should be returned and how related foregin key data that is related to other tables, should be removed. Sould it be removed in the jdbc first or in the database via a trigger. Moving more towards trigger.

Problem need more time.

#### Week 9

* Tuesday 26/03/13:

Currently combining the java classes from my other team members into a single project so that I can view the listeners on their classes. From this I will place the appropriate function calls in these listeners. Also these listeners will give me a better idea what additional functions will have to be created or how the current functions should be altered to appropirate fit the listeners calling these functions.

* Well from my review of the current guis they look appropiate but lack a bit of functionaliy such as lack of listeners/event handelers to call the functions that are contained within the model class. I have informed my team mates of their guis in relation to the called functions and im sure they will alter accordingly. Such as the creation of a new employee gui etc.
* As for the model functions I will look further into those tomorrow morning.An will output the data to the console for now.Until the guis are altered accordingly.

#### Week 10

* Saturday 06/04/10:

Working on appling the correct model methods to the correct listeners in the guis.

* The add new stock feature of the gui has been successfully connected however I have noticed a few noteable problems as I was doing this.

Note: their is no Genre in the DVD database stock table.

also there is no DVD year or dvd rent fee in the Stock gui class.

There needs to be a employee login and a place to pass in the username and passwords in the gui.

Id is autoincremented in the database so there is no need for a text field for this function at least.

Lastly there needs to be a textfield to add in the rental fee.

* The delete from stock has been attempted and is successful. Notes for improvement: Add a morefuctionality to delete by stock name and additional informantion –needed improved sql statement, currently only works with stock id.Oh and the remove buttion on the gui may as well be moved just under the Id jTextfield.
* Attempting to add in functionaity to uodate the quantity of the database via the gui.

Note: Concered about the purpouse of the sql statement supplied by Oizhas. I think it is supposed to update the database with the number dvds that are in the dvd table. But it seemes to me that it wont suit this situaltion when the employee wants to input the current updated quantity.

* Update on stock functionality is successful. From this I have gotten an idea to input a few if statements to check if there is data in the variables and are not just blank white space variables.im going to try this later.
* As for the search function Im still unsure where to put the returned data.
* Okay the search function is working now. Since I was unsure as to where to put ther data I placed them into tempoary variables within the listener. Dennis can there for place the data that is in them wherever he sees fit. So with that the first functional stock screen is working. Albet a basic functionalie but there is time for improvement.
* Sunday 07/04/13:
* Currently looking over Paul’s Gui programs and ajusting them to suit the model class.
* I altered the login class for the moment to that there are public string variuables to hold the username and password. These can be used when the program is acessing the database. Note need to find out how to check the validity.Maybe using the connect to the database and if it throughs an error in connectinig with that password the catch will display a notification to say that the username or password are wrong. Oh and if it passes the try will containe the code for calling up the next gui.
* Also since the action calls arnt commented im still a little unsure where to place my code.Also this part of the code still isnt connected to the other gui,s yet or my model class for that matter.
* For the customer creation gui make a check to ensure that you cannot pass in empty fields. Simply if statement before the placed into the database or outputed etc.
* There really needs to be a proper way of passing around the username and passwords.

#### Week 11

* Thursday 18/04/13:
* Currently putting the final functionality into to the final iteration of the gui.
* Reimplement the JDBC library.—done
* Check login screen gui part.

Have to replace the login button action with updated action.

Code placed successfully.

* Model class has to be replaced with updated model class
* Have to alter GUI class to allow for the passing of the username and password variables. –done
* Now to do the same to each gui class that calls the database.
* Settings class –done

Set user –done

AccDetails –done

createAcc –done

Stocksearch –done

Addfilm –done

rentalHistory --done

* Updating the NewEmp method in the model class to include a boolean flag.

This will tell if the employee added is a manager or not.—successful

However a check needs to be made that will create a pop up to the user that the

Current user does not have sufficent privilages

//need to make a test to check if a new user can be added that have the same usernames

//Need to make a test to check if a user which doesn’t have the correct privilages

Can or cant create a new user.

* AccDetails needs some work on the search engine functionality first.—done

Data is being returned from the database from the name searched,now to pass the data to the gui—successful

However we do not need the extra text boxes.

Now adding in the update customer details functionality—done

However the length of the phone number should be checked before passing to the database.

* I had to re update the model again with the Closeresultset method,displaystock method and to convert the closeDB and closeStm to public as well.
* Closing down the laptop for the night will finish the rest in the morning
* Resuming Work: 19/04/13
* newCustomer clas has been reupdated with the appriopriate functionality
* newStock has been updated
* stockdetails has the search for the single id of the stock done
* Working on remove;
* New employee manager and employee privalages completed
* Resuming Work: 21/04/13
* Attempting displaying the stock from the database to the jlist –completed
* Now attempting to do the same on the rental history database.
* Rental history constructor has been modified to accept the id of the customer account to preform the transaction.
* Rental history list display is successful.

#### Week 12

* Monday 22/04/13:
* The code freeze will be tonight
* Going to work on displaying all dvds that are in stock--done
* First : any new stock each has to have a new dvd added to the dvd table when created, coriponding to the number of stock quantity that has been inputed.--done
* Note trying to delete stock from table and encountering a foreign key constraint error which should have a trigger to prevent this.Ozhas’s job.—will deal with later
* The database end of displaying all stock that is availible is ready
* Successfully ported to the gui end. Now the Gui displays all dvds that are in stock.
* Now to display all dvds that are overdue.—done
* Attempting to make a new rent.