**Enterprise Software Development**

**Test Instruction Report**

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# Compiling and execution of the application:

First of all, download the NetBeans IDE for running this java application. Once you have downloaded, open the OPEN PROJECT from FILE panel and open the project.

Graphical user interface, application, Word

Description automatically generated

Make sure that, you have installed JDK for running the java application, without JDK we are not able to run the java program.

Then, once you open the project, they will ask you to resolve some problems.

The screenshot has been showed further.

Graphical user interface, text, application

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As one of the errors is to add the MySQL JAR file, which is necessary to add in library folder of the project to run SQL programs.

Another problem is to add the JDK platform for default version.

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Once you resolve both the problems, the project will successfully open.

As you can see, all the files are visible as per the above screenshot, now next part is to setup the SERVICES for running the MySQL database.

All the services setups are declared further with proper screenshots.

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First of all, create new database by right click on the MySQL server.

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Give an appropriate name for the database.

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Then connect with the ASS2 database, for further operations.

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Once all finished, new database will be appear, along with that tables folder Is also visible for managing the database table.

Now all, the database section setup has been finished. Now, we need to start the GLASS FISH SERVER.

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Start the glass fish server, once the NetBeans connected with the glass fish server the program services are fully setup.

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Now, once you setup all the services and resolve the problems, there will be one more error may appear which is in the PERSISTENCE.XML file. Where the persistence name unit is different for everyone. So, change it accordingly. If you do not receive error then, all good. The program is ready to RUN.

Once all the steps are performed as discussed above, RUN the Main file from the project panel.

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# Data Persistence Test:

As asked per the assignment specification, I have persist the data into MySQL database. Testing screenshots along with the short description has been discussed further.

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Graphical user interface, application

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As from the above screenshot, it can be tested that all the data are persisted and able to retrieve the data from the database. In the further screenshot, it can be identified that the data, has been persisted and added to the SQL tables under ASS2 database.

Graphical user interface, application

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As we can see that, the tables have been successfully created and the data has been persisted.

Graphical user interface, application

Description automatically generated

Let’s consider one table, Property Table, where the required and specified columns have been created. Moreover, the data has also been persisted as per the requirement.

The below screenshot indicates all the field of the tables.

Graphical user interface, text, application

Description automatically generated

# Data Retrieval Test:

Once the data is persisted and stored in the database, I have successfully display all the data.

Now, according to the assignment specification requirement, I have to create a menu and retrieve the data as the user selection.

All the screenshots are further provided.

Graphical user interface, text, application

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As from the above screen shot it can be demonstrate that the menu for the user selection has been appear.

Graphical user interface, text, application

Description automatically generated

As I have selected option 1, the prompt has been appeared that asked to enter the property name.

From the above screenshot, it can be demonstrated that I have entered the sales property name and the result has been showed in further screenshot.

Graphical user interface, text, application

Description automatically generated

As you can see, we have entered the property name and all the details have been retrieve from the database.

Now let’s see other two options.

Graphical user interface, text, application

Description automatically generated

From the above screenshot, it can be demonstrated that the data of property manager has been successfully retrieved from the database.

Graphical user interface, text, application

Description automatically generated

The above screenshot indicate that the allocation data has been retrieved. Moreover, from the above screenshot, it can be illustrates that one property manager has allocated two properties and both are printed on the output screen.

These are the testing screenshots of data retrieval from the database.

Graphical user interface, text, application

Description automatically generated

For exiting the menu, press 4 and we have successfully closed the program as per the specification sheet.