

Advance Java Programming Day 1 Extra Assignment

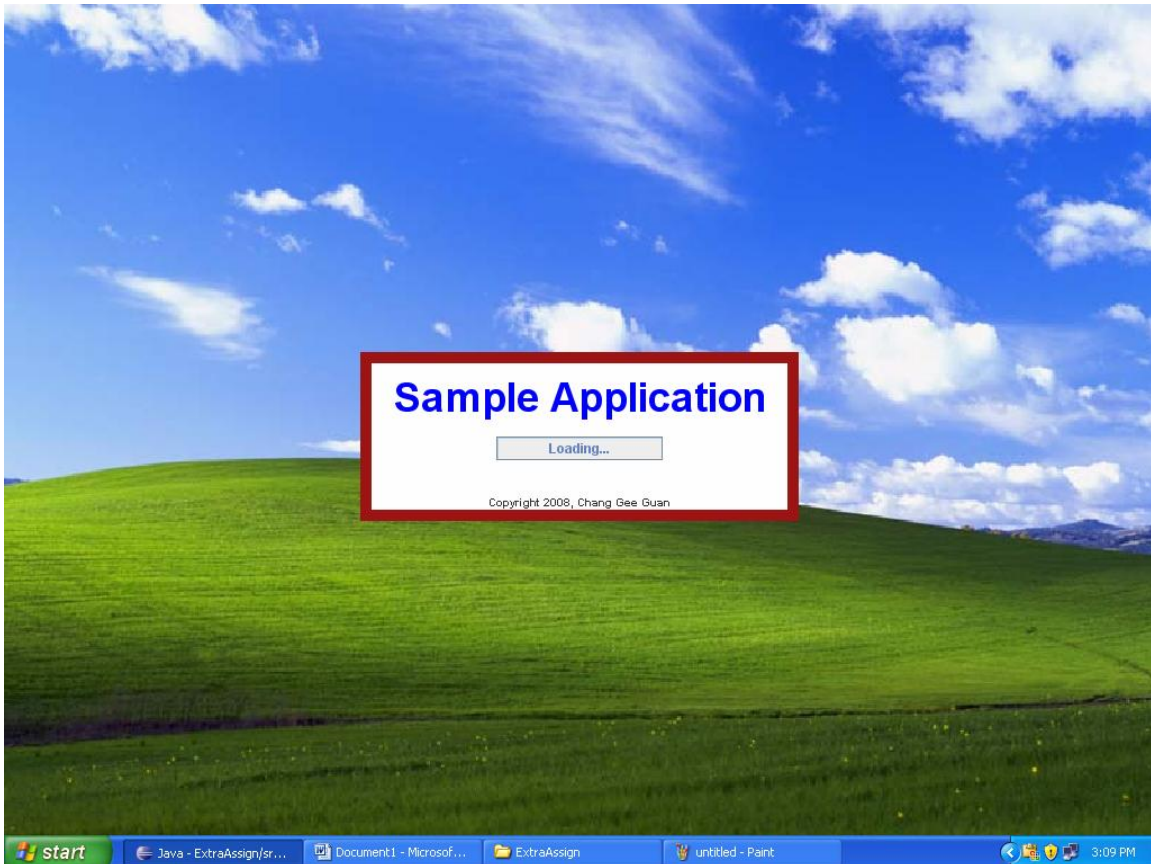
Problem statement: You received a new project where your client requested that the application which you are going to develop should be able to handle all the database setting from creating the database, inserting default values until running the application with the database. Your client doesn't want to install any third party database just for your system.

Your Project Manager asked you to develop the application using Java programming language and JavaDB embedded database. The application need to create and insert default data during its first run. Since it may take some time to accomplish the task, you are required to develop the splash screen whenever the application starts. The splash screen will show the processes like connecting to the database, etc. After everything is done, then the Main Menu of the system will be shown.

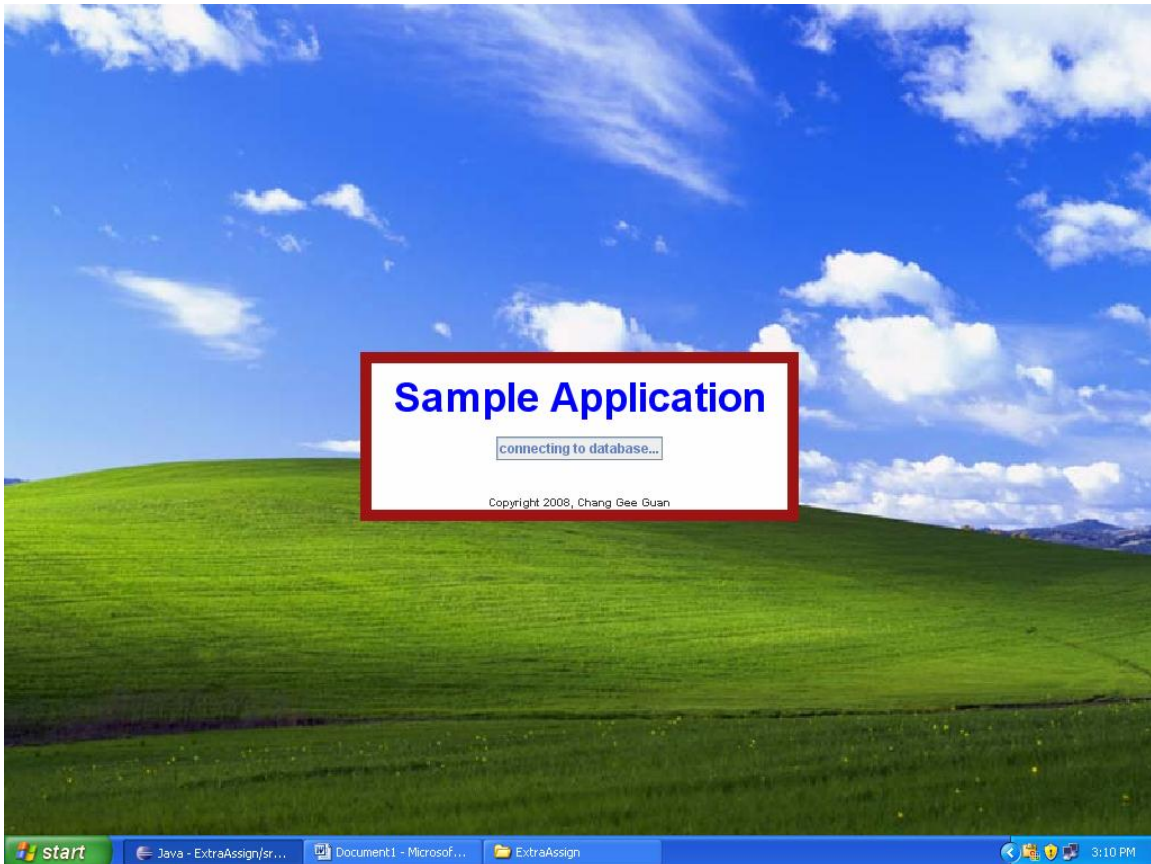
Below is the table that needs to be created with its default data.

stuentid	studentname	gender	course	address	telephone
B030310040	Chang Gee Guan	M	BITS	Ayer Keroh, Melaka	0101234567
B030310140	Ashabul Yamin Mustakim	M	BITS	Shah Alam, Selangor	0121234567
B030310227	Lee Shu Fhui	F	BITS	Semabok,Melak a	0141234567
B030310057	Clarance Augustine	M	BITS	Ayer Keroh, Melaka	0181234567
B030410156	Chua Joe Luan	F	BITS	Cheras Kuala, Lumpur'	0101234567

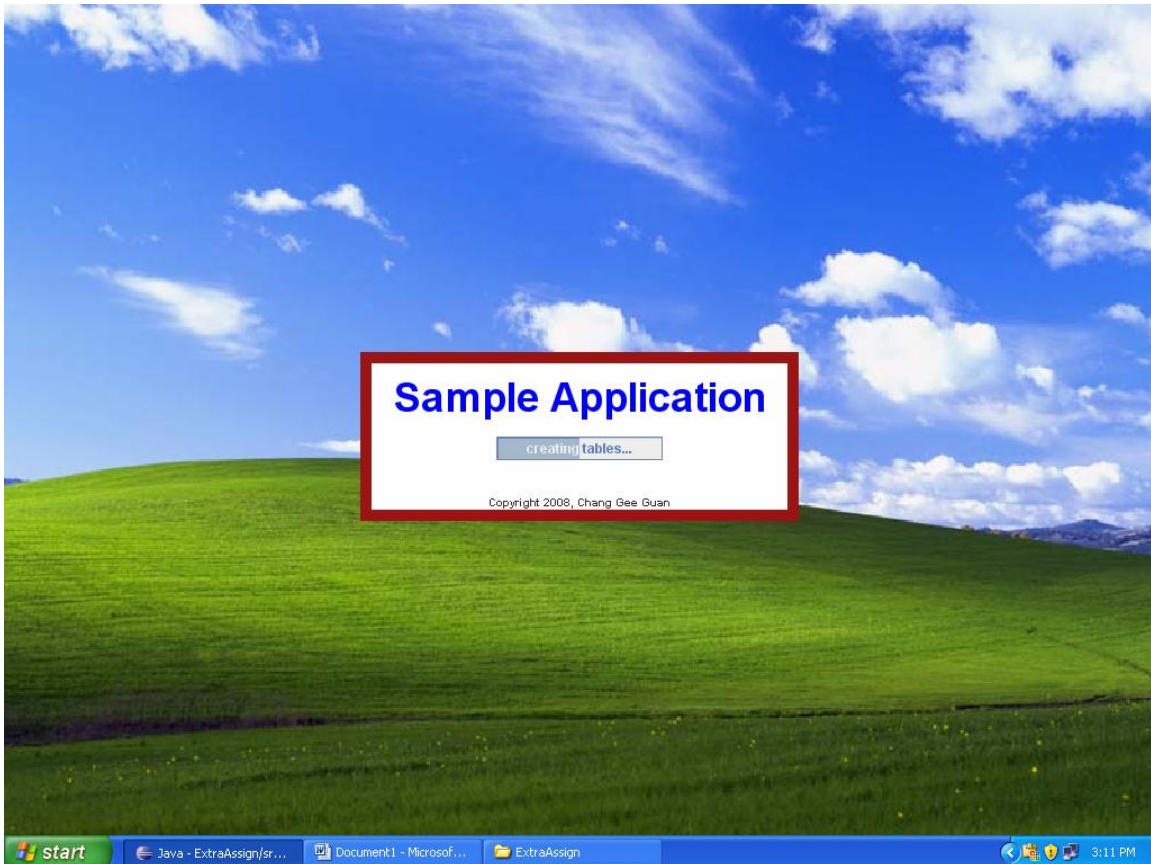
The screen capture shows the system creates the table and inserts default data during its first run.



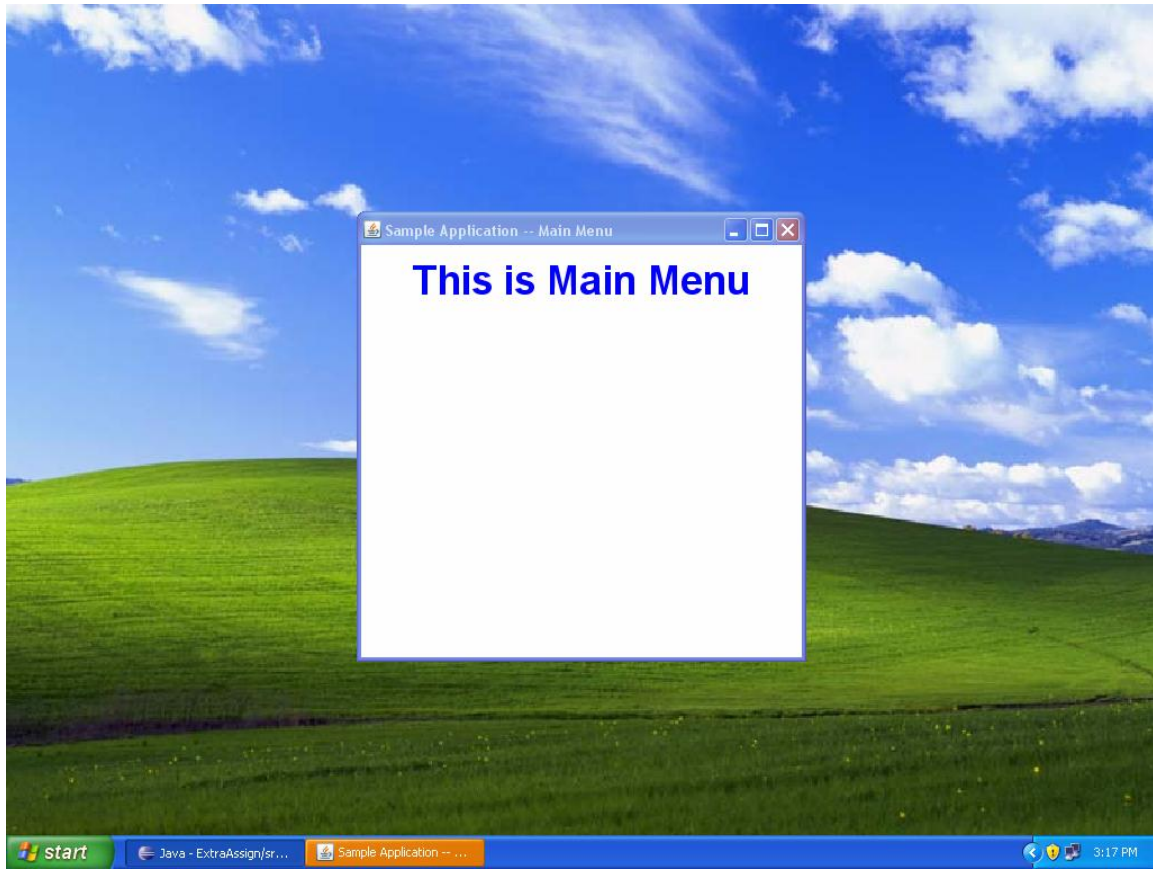
The system starts loading (initializing the database driver)



The system establishes a connection to database



The system creates tables and inserts default data since it's running for the first time. (The database is not found and need to be created).



The main menu screen will show after the loading process finishes.

***Note:** The system will only create table and insert default data if and only if it can't find and load the database in its running directory. If the database is found, then a connection is established and the main menu screen will show.

Make this application and self-executable jar file, which means the system can be executed by just double clicking the jar file.