

Object Oriented Programming Assignment 2

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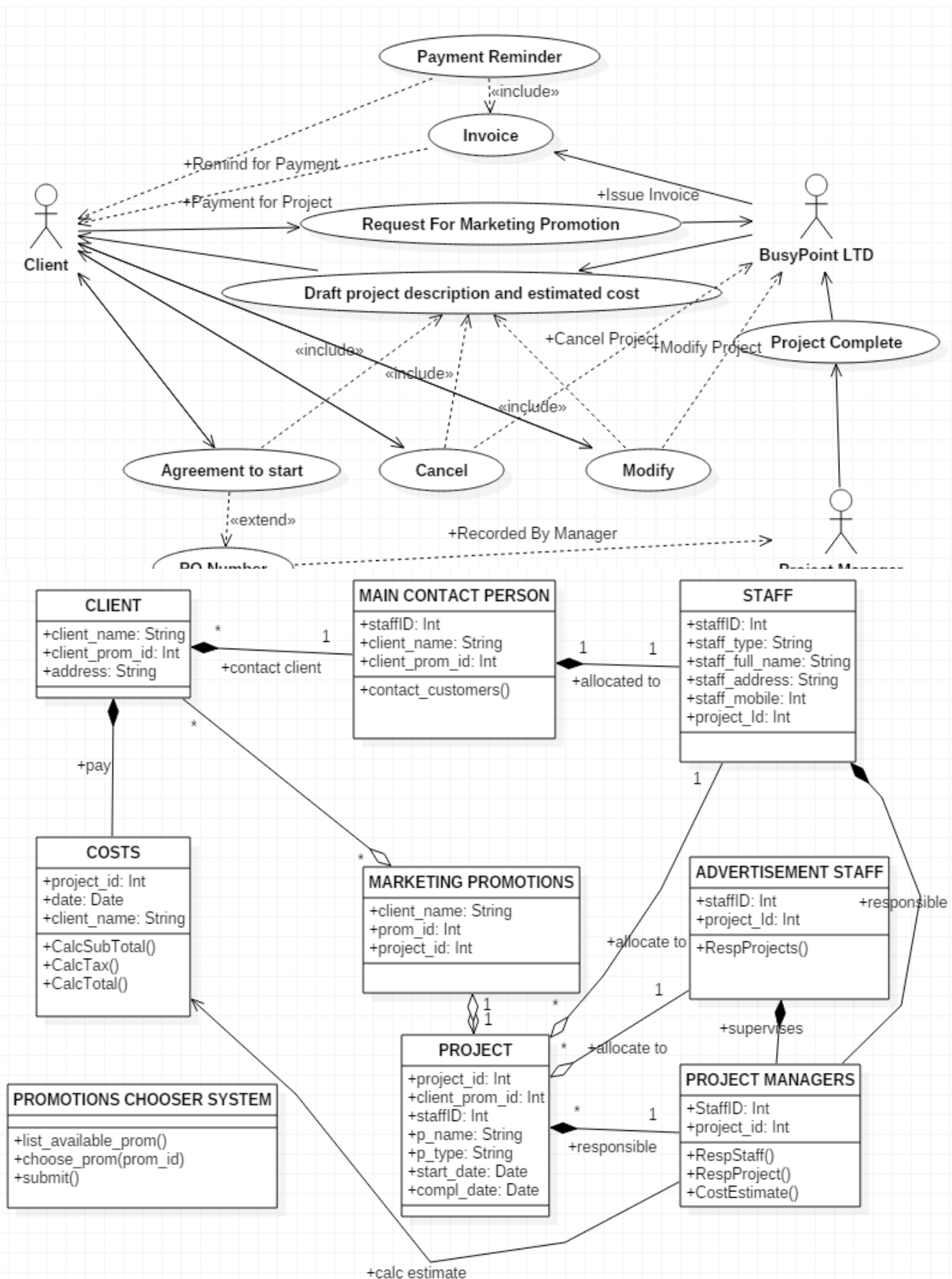
Introduction

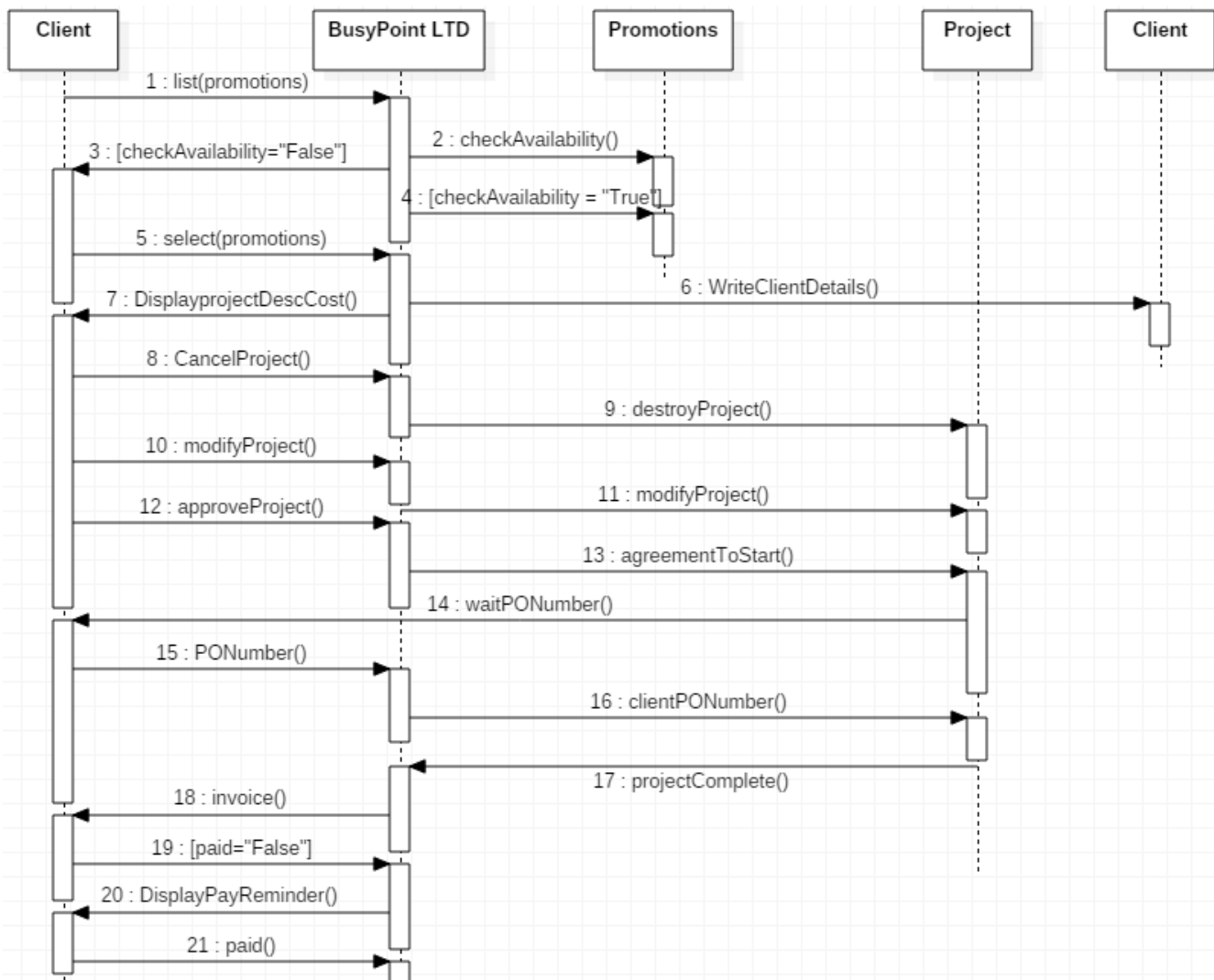
BusyPoint Ltd is a London based Application Service Provider (ASP) that hosts and manages software applications for IT providers. The company uses computers to support its clients and promotion of their hosted services. BusyPoint plans to expand internationally and to upgrade its information procession system to meet new demands. This is where I started to develop an application for the BusyPoint company. The application will let employees manage client information easily, since the application is using a sql based database for client information storage.

Use case model, class diagram and sequence diagram

Here are the diagrams that were prepared for the application. The main point here is that the diagrams were only partly used for the application, since I had done a minor of changes to the application compared with the diagrams. I thought about doing a little bit different application. The main point of the application is that the employees will use it to manage client information, the scenario still remains the same, but the application is suited for the BusyPoint employees. The application would require to be linked to a website where a client could log in and type all the details required for the company, then the details would be dumped into the same application database. Then companie's employee

could log in to the application and see all the client's details. I haven't made the website part, since this assignment is not so wide.





The application

The application has been written using the net beans IDE program. Language that the application was written is java. Application has a database that was done using the derby implementation of the net beans program. A mysql server was hosted on my local machine using the xamp program.

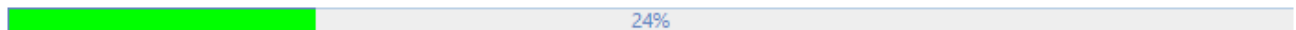
Design and Functionality

LaunchProgressBar.java

That's one of the classes that is used just at the start of the application. I thought about implementing a progress bar which would make the application look better to the eye.

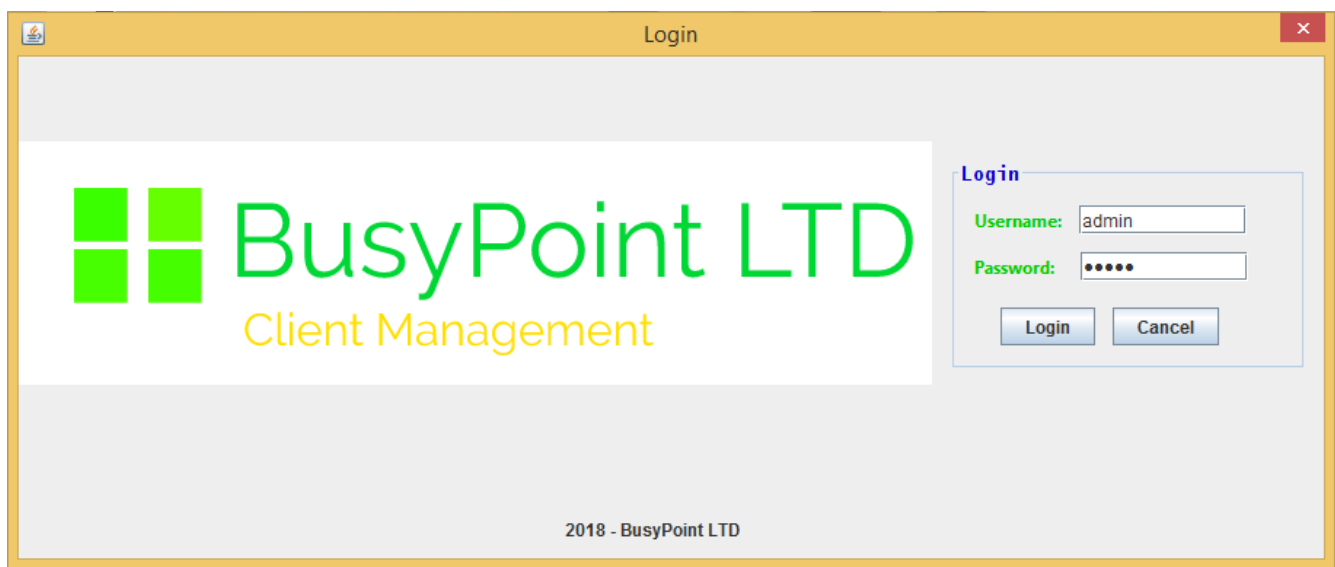


Please Wait...



I made a logo of the company as well, of course for the same reason as why I made the progress bar.

Login.java

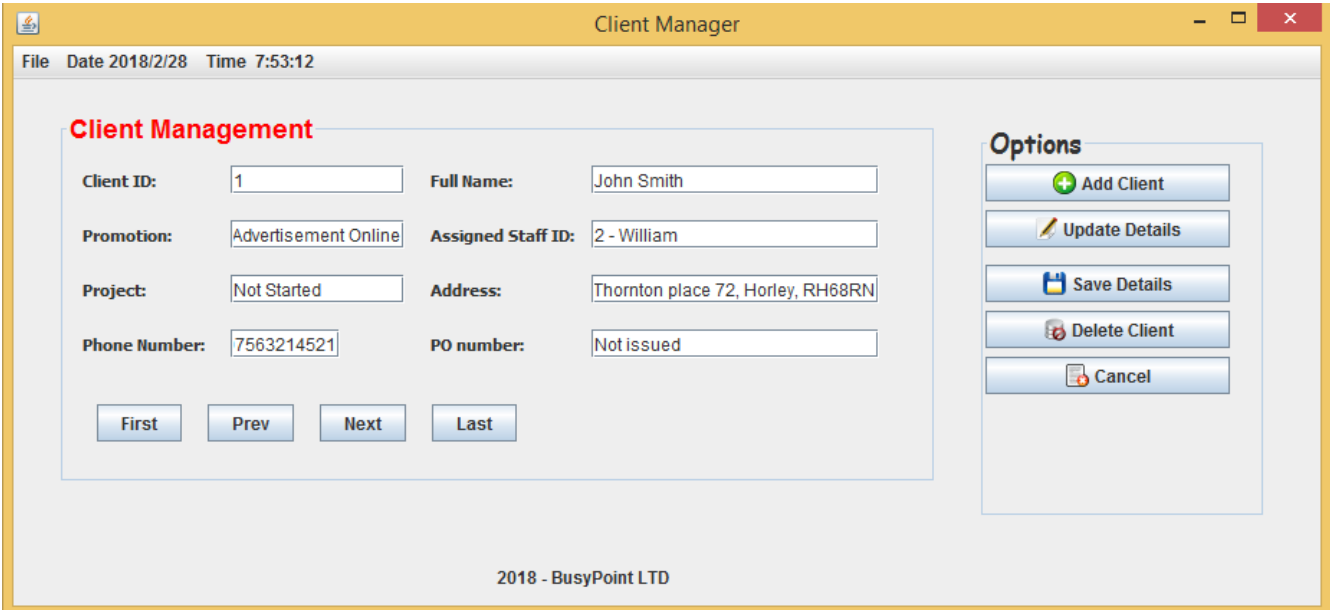


Login java class is simple and easy to use, just type in the login details and you are good to go. It won't work if it's not connected to the derby database. The main user is the admin.

Username: admin

Password: admin

“student.java”



The screenshot shows a Java Swing window titled "Client Manager". At the top, there is a menu bar with "File", "Date 2018/2/28", and "Time 7:53:12". The main content area is divided into two sections. On the left, under the heading "Client Management", there is a form with several input fields: "Client ID:" (containing "1"), "Full Name:" (containing "John Smith"), "Promotion:" (containing "Advertisement Online"), "Assigned Staff ID:" (containing "2 - William"), "Project:" (containing "Not Started"), "Address:" (containing "Thornton place 72, Horley, RH68RN"), "Phone Number:" (containing "7563214521"), and "PO number:" (containing "Not issued"). Below these fields are four buttons: "First", "Prev", "Next", and "Last". On the right, under the heading "Options", there are five buttons: "Add Client" (with a green plus icon), "Update Details" (with a pencil icon), "Save Details" (with a floppy disk icon), "Delete Client" (with a trash can icon), and "Cancel" (with a red X icon). At the bottom center of the window, it says "2018 - BusyPoint LTD".

This is the main window of the client management app. From here the user can edit and add client details. Using the jbuttons on the right you can easily do all the work.

The client information consists of:

- Client ID (A unique ID that every client is assigned to)
- Full name (Clients full name)
- Promotion (The promotion that client has chosen)
- Assigned Staff ID (This is the assigned staff member that is responsible for the client)
- Project (This is the project that company is doing for the client. In this case the project still haven't started.)

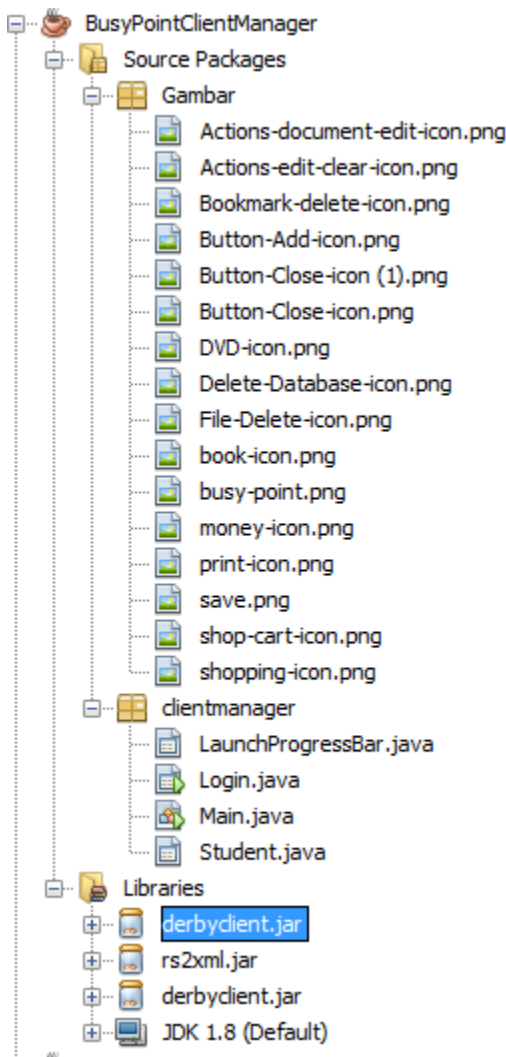
- Address (Client's address)
- Phone number (Client's phone number)
- PO Number (This is the PO number that is being issued to the client after the project is completed and a payment is required)

To view another client you just have to press the corresponding jbutton at the bottom of the app.

The application shows the current time and date. I implemented these since its quite usual to have a time and date in that kind of work application.

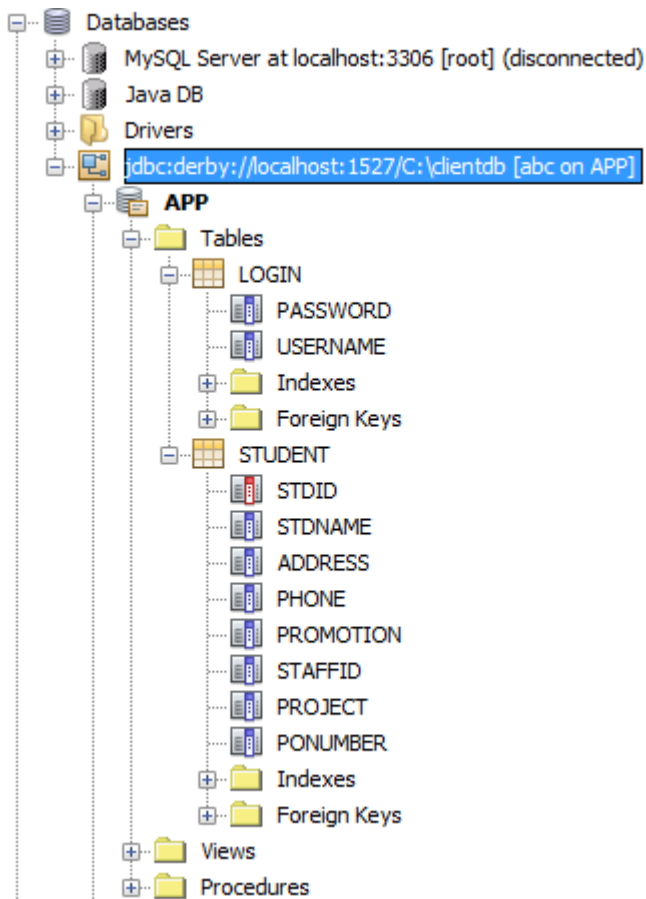
There's also a File option at the top left corner, that has two options: Close and Exit.

Other files



Here we can see are the files of the whole project. It contains the Gambar folder which has all the icons of the app. As well we can see the libraries used.

Database



The database is the folder "ClientDB", I had it stored in the C:/ disk. The database consists of: Student table, which is used for the clients information storage. The table Login is used for the username and password storage of the app.

The password for the database is:

Username: abc

Password: 123

The settings for the database can be set in login.java and student.java.