EMP TRANSFER MANAGEMENT

E-PROJECT SEMESTER 2 – APTECH LEARNING

EMPLOYEE MANAGEMENT SYSTEM

Submitted by:

Ly Thanh Hai

Nguyen Khanh

PROJECT PROFILE

Project title	Employee Transfer Management
Developed for	HK Corporation
Project description	This application provide management of employee transfers
Type of application	Intranet (Multi User System)
Tools	Netbeans, SQL Server 2014

ABOUT THE SOFTWARE

'EMP Transfer Management' is software belong to HK Corporation, which help the leader of company can manage the transfer of employee between projects. It offers various function such as create/update/remove employee, create/request/ approve transfers. It also have ability to generate report of transfer in particular need.

REQUIREMENT ATTRIBUTES

Functional	Description
Login	User need to have an user account in database in order to login to application.
Manage function	Admin can add, update, delete employee and project
Search function	Search employee, search transfer records
Manage transfer	Request, approve, create new transfer
Generate report	Export statistic to Pdf file

SYSTEM USER

The user of EMP Transfer Management reside at three roles:

- President

- Project Manager

- Human Resource Manager

All have different access to the Software functions.

President can Add user, do search operations, generate reports

Human Resource can manage employee, do search operations, create or approve transfer, generate reports

Project Manager can manage project, do search operations, request transfers
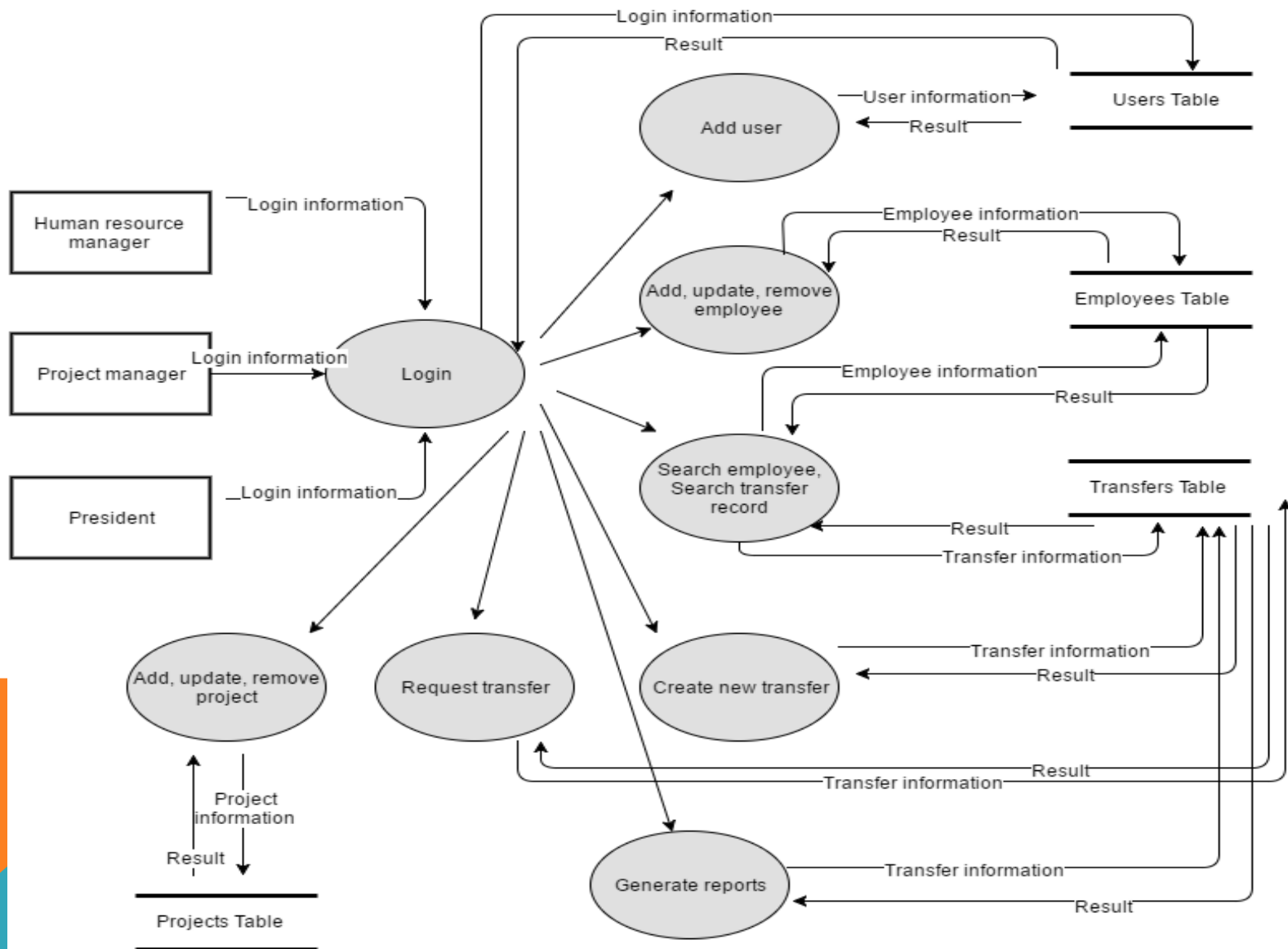
USE CASE DIAGRAM
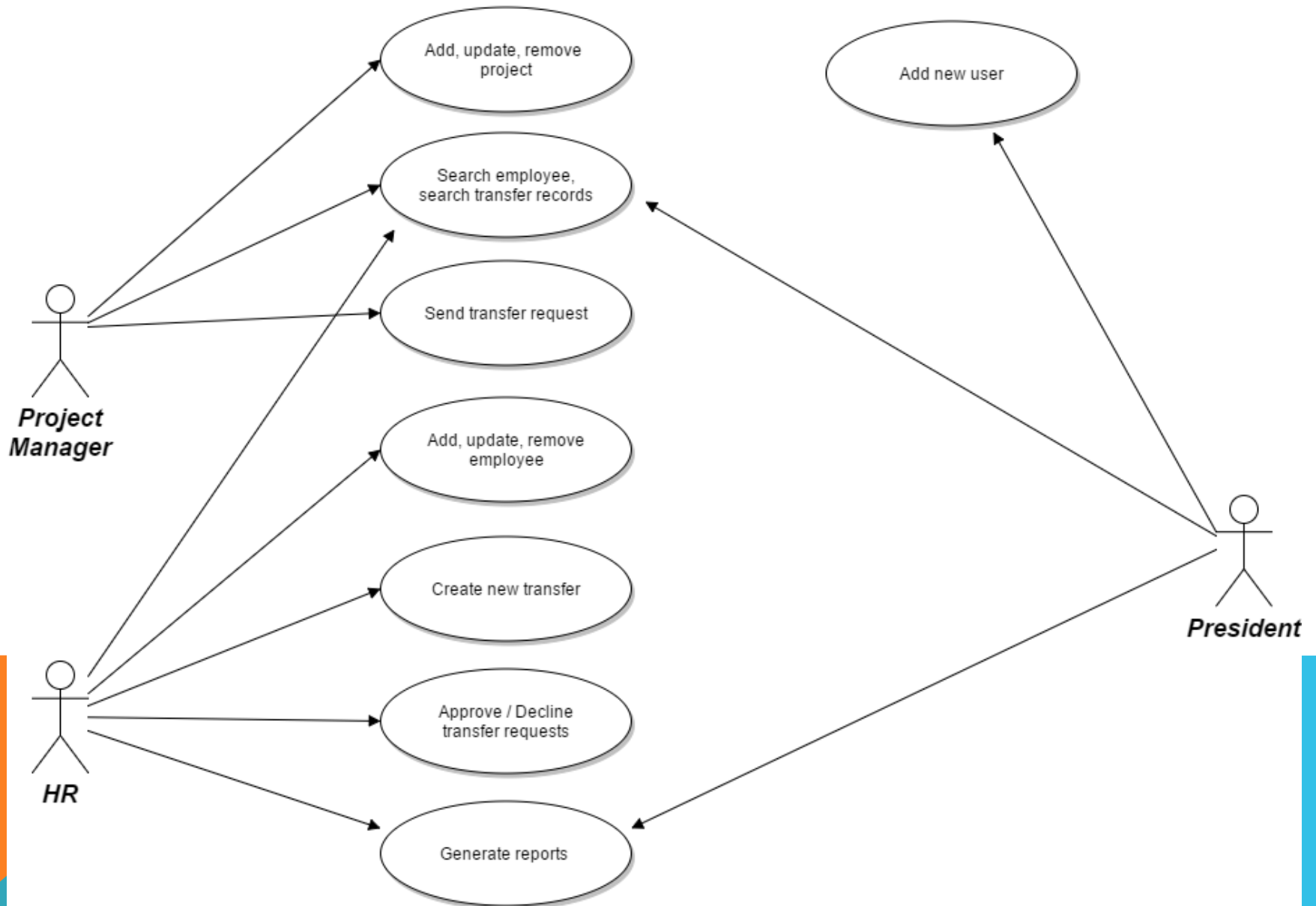
DATA FLOW DIAGRAM
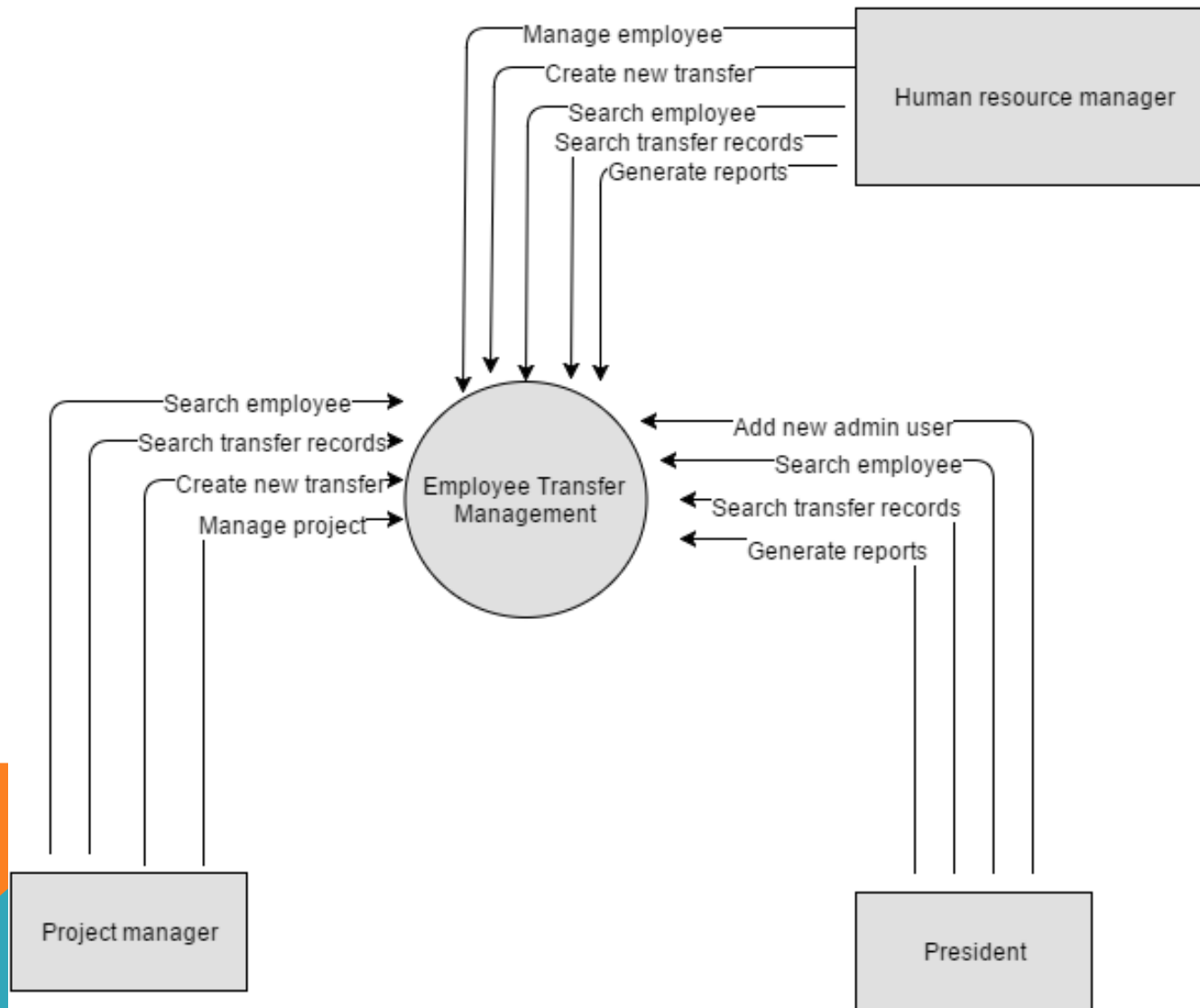
DATA FLOW DIAGRAM LEVEL 1

SYSTEM ANALYSIS

Technology used:

◆ Java

◆ Swing

◆ JDBC

◆ MVC (Model – View – Control) Architecture

◆ iText (Library for creating and manipulating PDF in Java)

◆ Cryptography (Encryption used for Login and manage user)

SYSTEM DESIGN Database Relationship

Employees

Column Name	Data Type	Allow Nulls
id	char(6)	☐
name	nvarchar(50)	☐
email	nvarchar(50)	☐
phone	nvarchar(50)	☑
address	nvarchar(50)	☑
skill	nvarchar(50)	☑
position	nvarchar(50)	☑
isDeleted	bit	☐
		☐

Transfers

Column Name	Data Type	Allow Nulls
id	char(6)	☐
employeeId	char(6)	☐
fromProjectId	char(6)	☑
toProjectId	char(6)	☑
status	nvarchar(50)	☐
approvedBy	nvarchar(50)	☑
startDate	datetime	☐
endDate	datetime	☐
		☐

Users

Column Name	Data Type	Allow Nulls
id	char(6)	☐
username	nvarchar(50)	☐
password	nvarchar(50)	☐
role	nvarchar(50)	☐
salt	char(12)	☐
		☐

Projects

Column Name	Data Type	Allow Nulls
id	char(6)	☐
name	nvarchar(50)	☐
startDate	datetime	☐
endDate	datetime	☐
isDeleted	bit	☐
		☐

SYSTEM DESIGN Procedural Design

Algorithm for President

Step 1: Open the application

Step 2A: If you are recognized as President in database

Step 2A-1: After successfully login, the user can access their desire right to the application.

Step 2A-2: can manage user by adding a new user

Step 2A-3: can see list of employees by Search employee function

Step 2A-4: can see list of transfer records by Search record function

Step 2A-5: can generate reports

Step 2B: If you are not recognized as President in database

Step 2B-1: contact the people have the right to create president account

SYSTEM DESIGN Procedural Design

Algorithm for Human Resource

Step 1: Open the application

Step 2A: If you are recognized as HR in database

Step 2A-1: After successfully login, the user can access their desire right to the application.

Step 2A-2: can manage employee by add, update, delete employee

Step 2A-3: can see list of employees/record by Search employee/record function

Step 2A-4: can see list of requested transfer, approve/deny request, or create new transfer

Step 2A-5: can generate reports

Step 2B: If you are not recognized as HR in database

Step 2B-1: contact the president with your employee code

SYSTEM DESIGN Procedural Design

Algorithm for Project Manager

Step 1: Open the application

Step 2A: If you are recognized as PM in database

> Step 2A-1: After successfully login, the user can access their desire right to the application.

> Step 2A-2: can manage project by add, update, delete employee

> Step 2A-3: can see list of employees/record by Search employee/record function

> Step 2A-4: can request new transfers

Step 2B: If you are not recognized as PM in database

> Step 2B-1: contact the president with your employee code
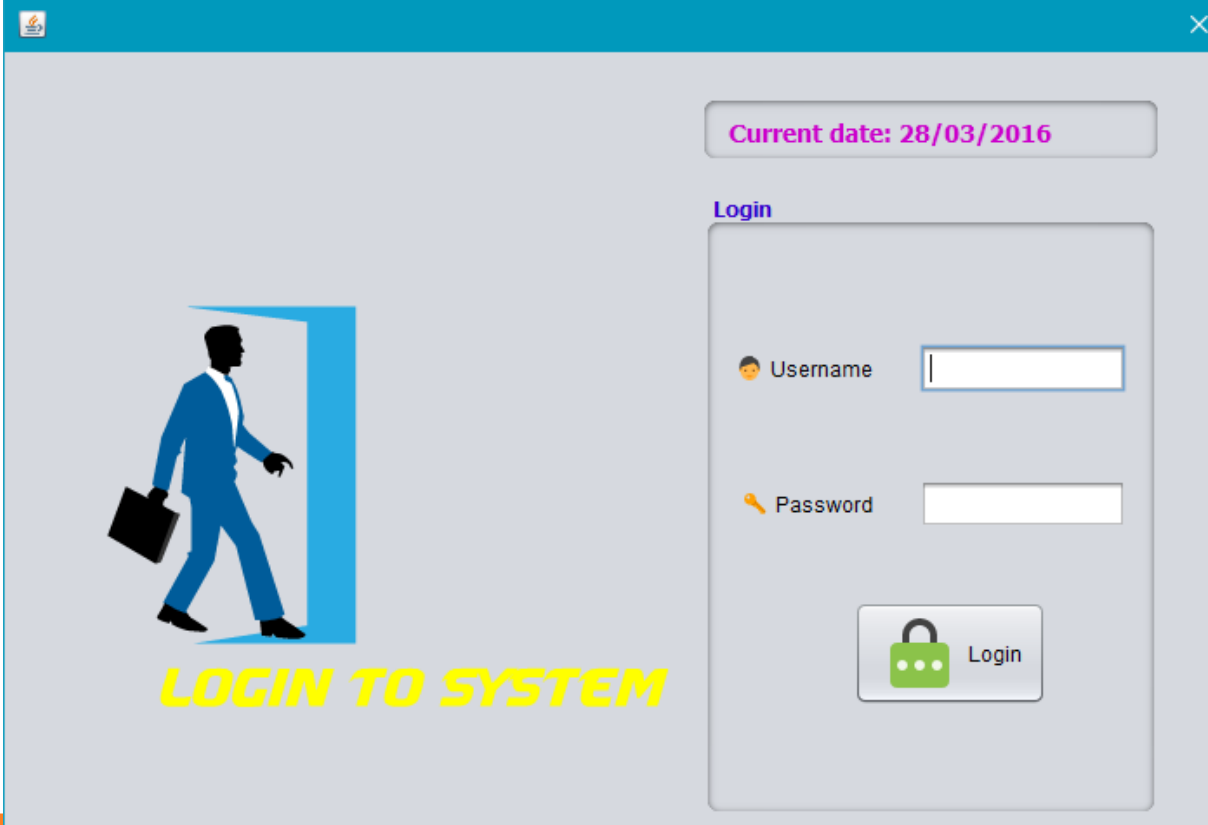
SCREENSHOTS Main Form
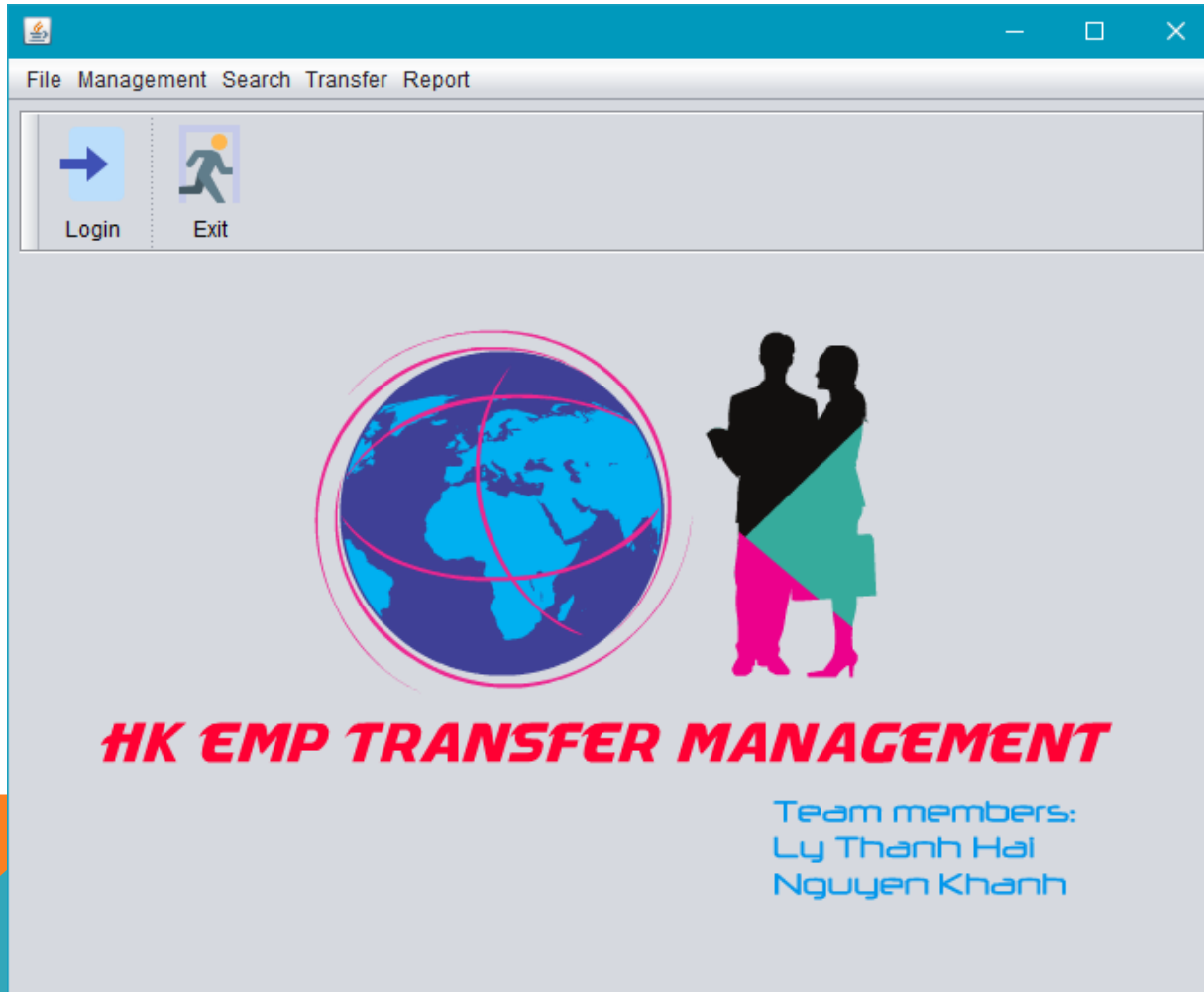
SCREENSHOTS Login Form

SCREENSHOTS Add User Form

SCREENSHOTS Manage Employee Form
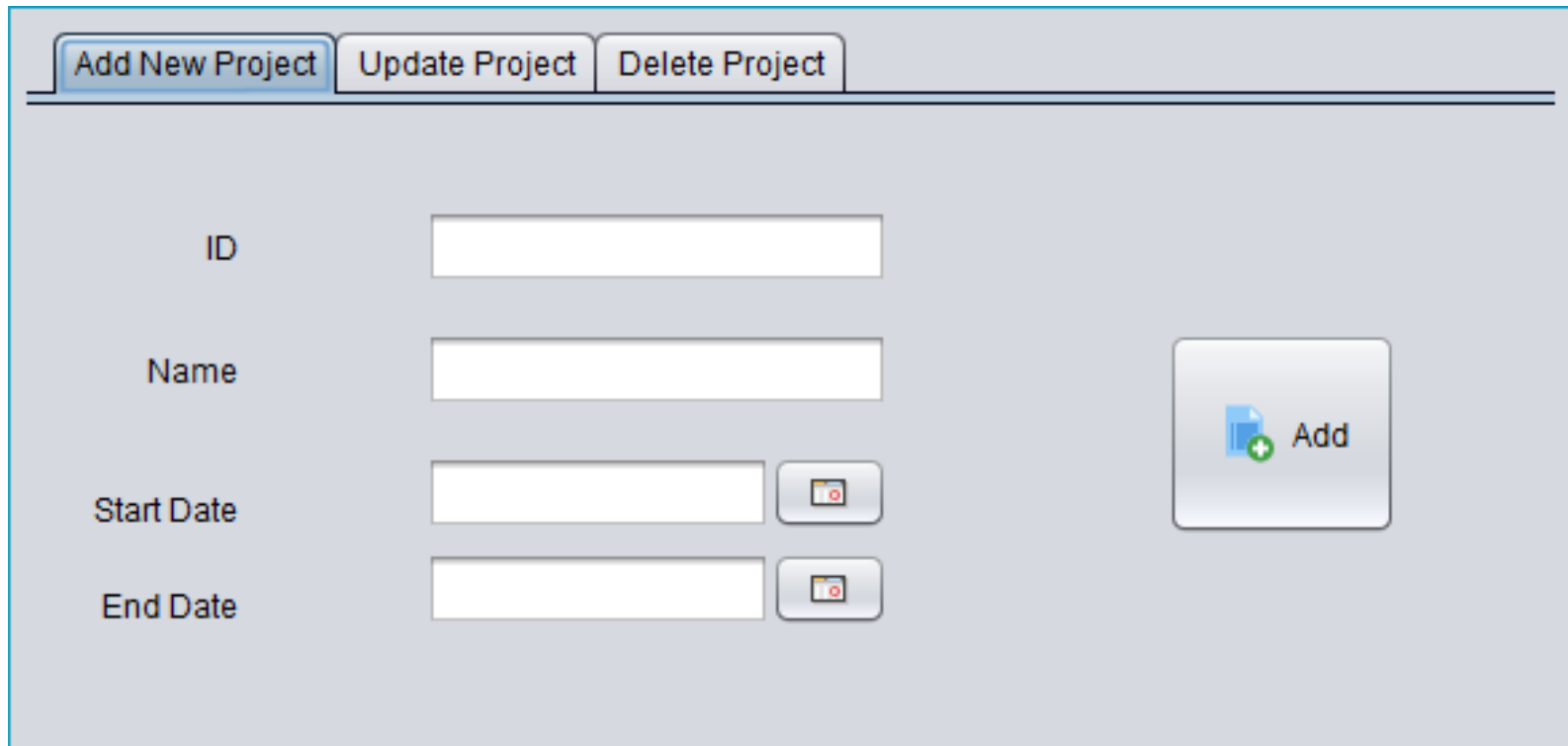
SCREENSHOTS Manage Project Form

SCREENSHOTS Search Employee Form

SCREENSHOTS Search Record Form

SCREENSHOTS New Transfer Form

SCREENSHOTS Transfer Approval Form

SCREENSHOTS Transfer Request Log Form
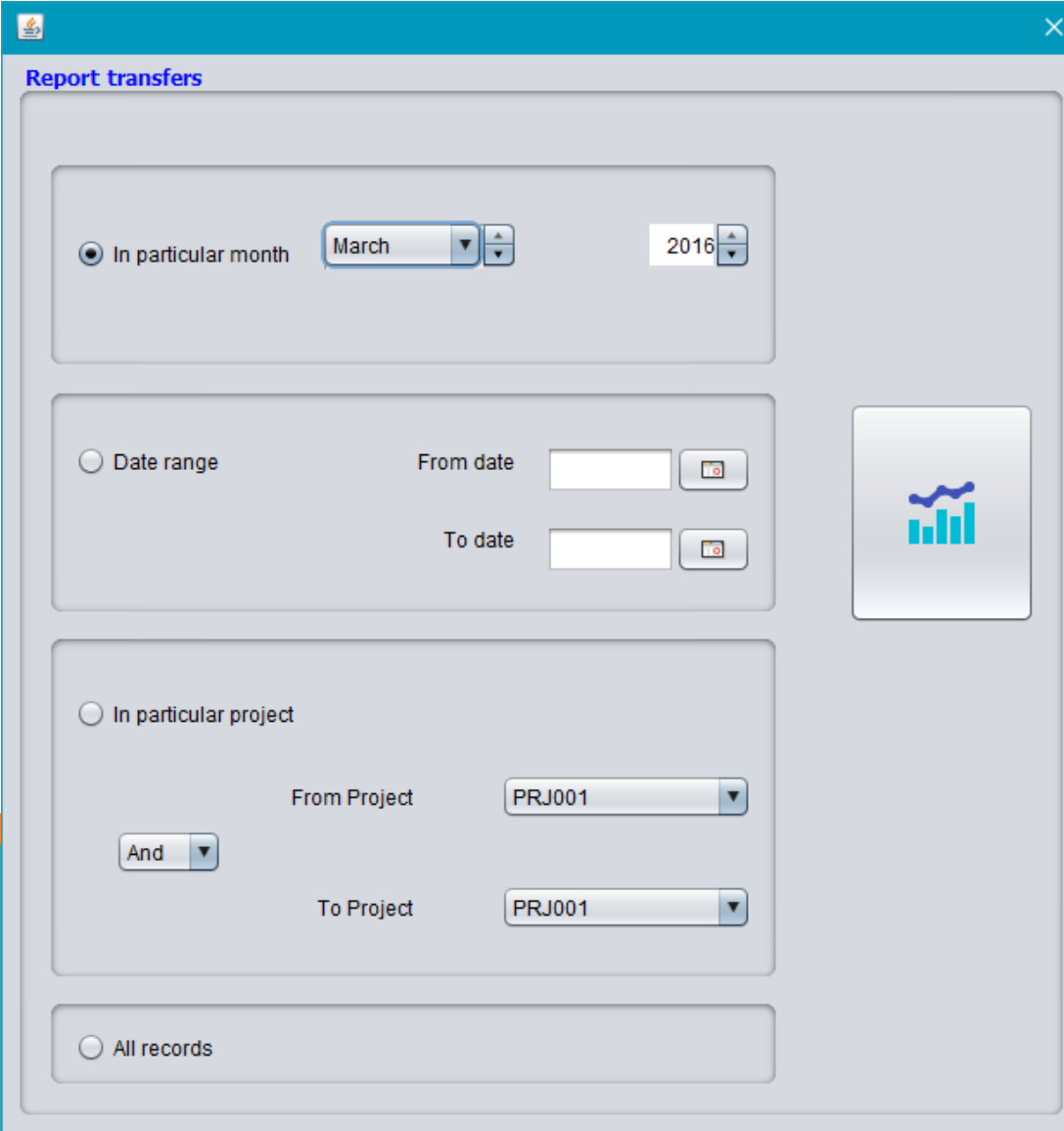
SCREENSHOTS Generate Report Form

LIMITATION AND FUTURE ENHANCEMENT

Limitation

EMP Transfer Management is limited to process transfer of one department only, there is no transfer between locations, departments

EMP Transfer Management is currently only offline desktop application, does not work on Internet

Enhancement

EMP Transfer Management will be handed up to all departments of HK Corporations

EMP Transfer Management will become web application, work on Server and Client over Internet

Thank you!