



EMP TRANSFER MANAGEMENT

E-PROJECT SEMESTER 2 - APTECH LEARNING

EMPLOYEE MANAGEMENT SYSTEM

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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.

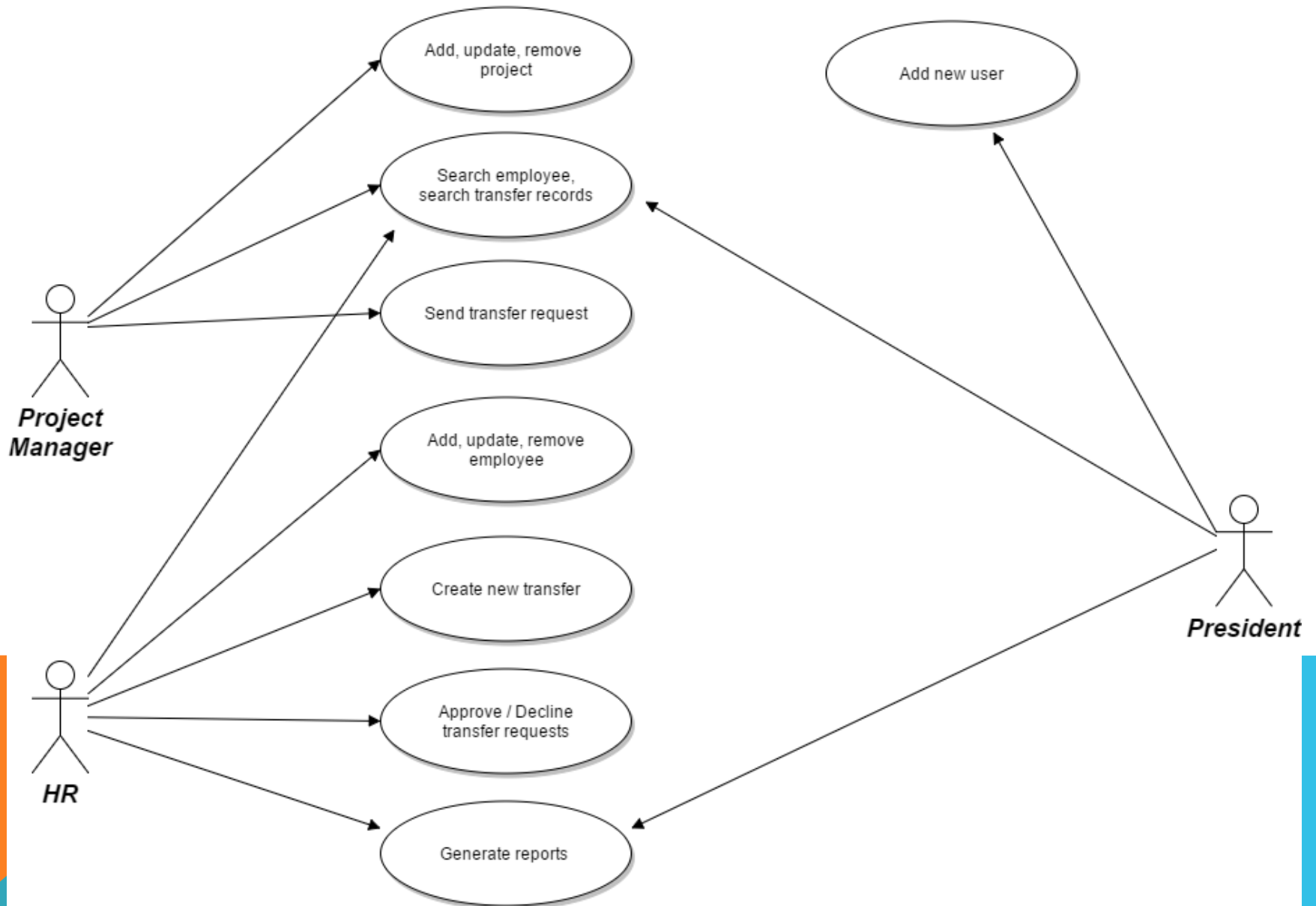
President can Add user, do search operations, generate reports

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

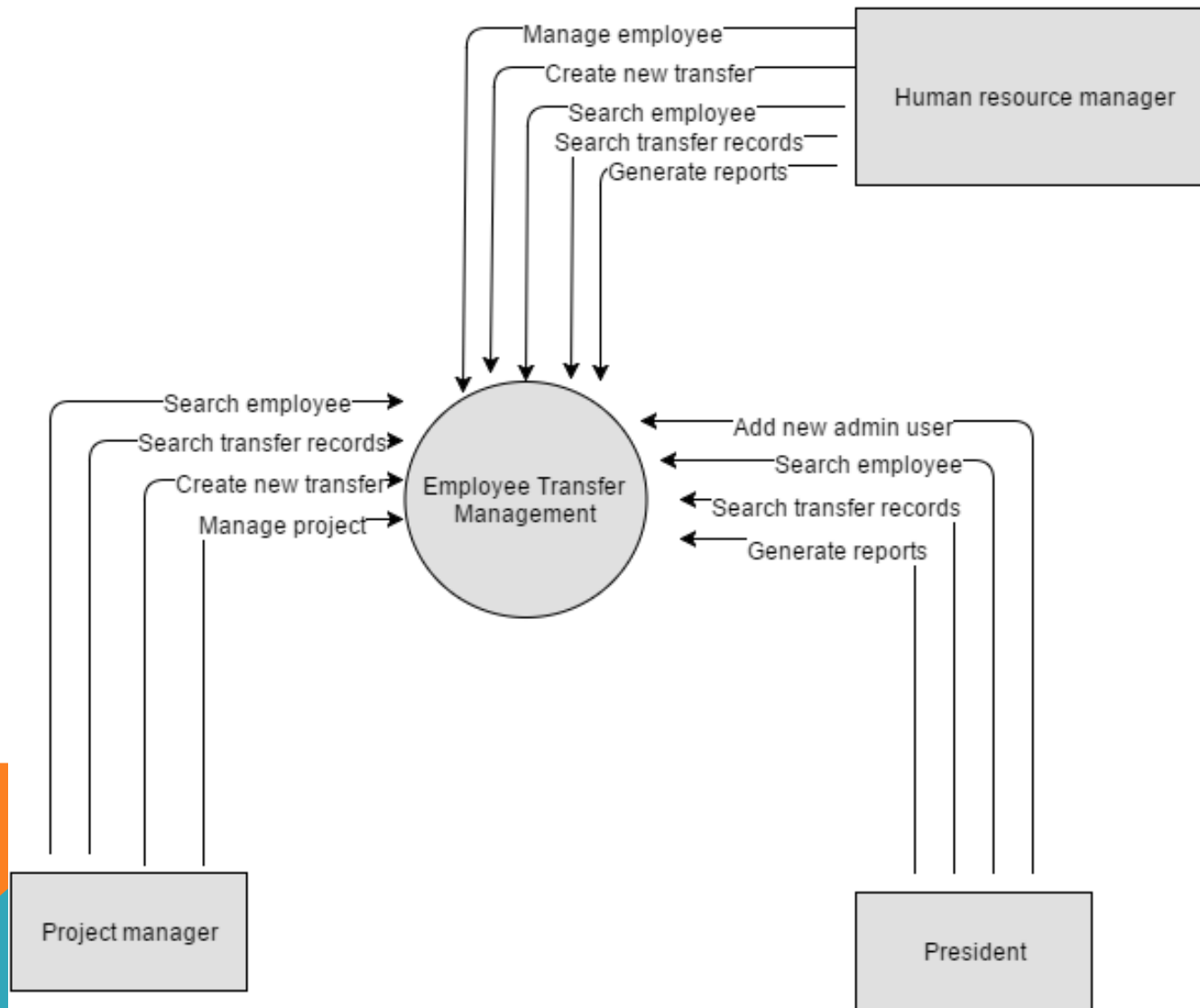
Project Manager can manage project, do search operations, request transfers



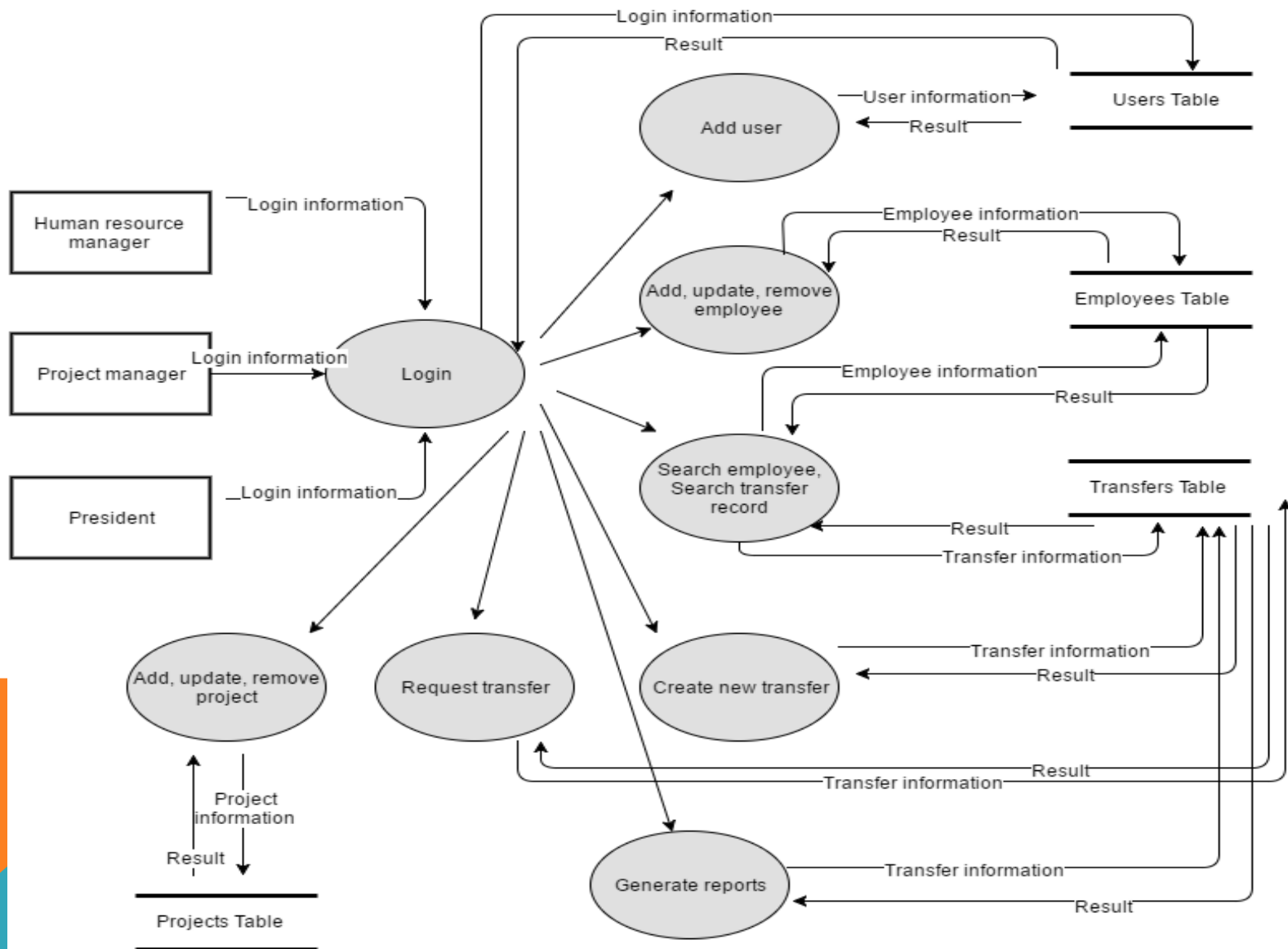
USE CASE DIAGRAM



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



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

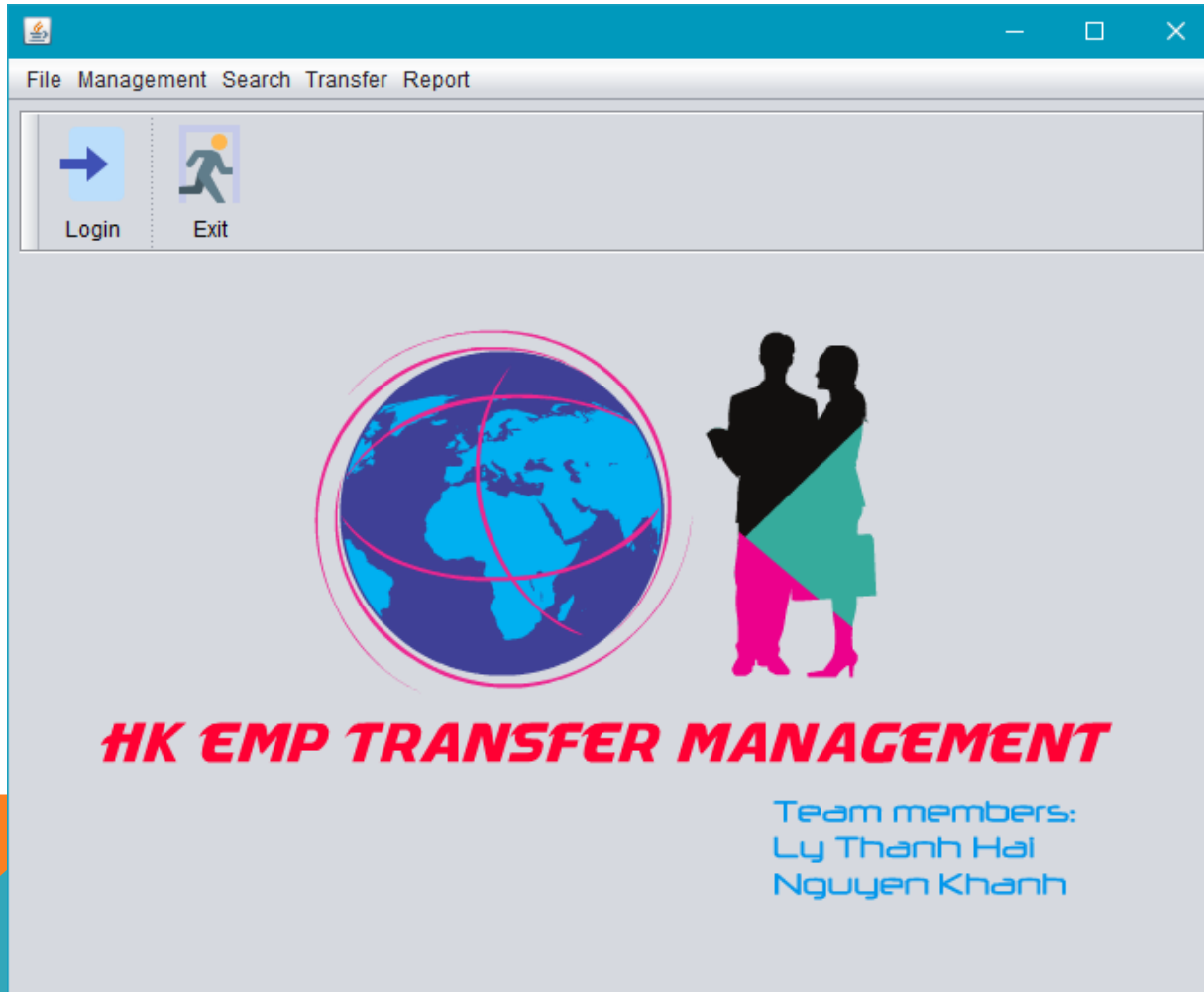
Step 2B: If you are not recognized as PM in database

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



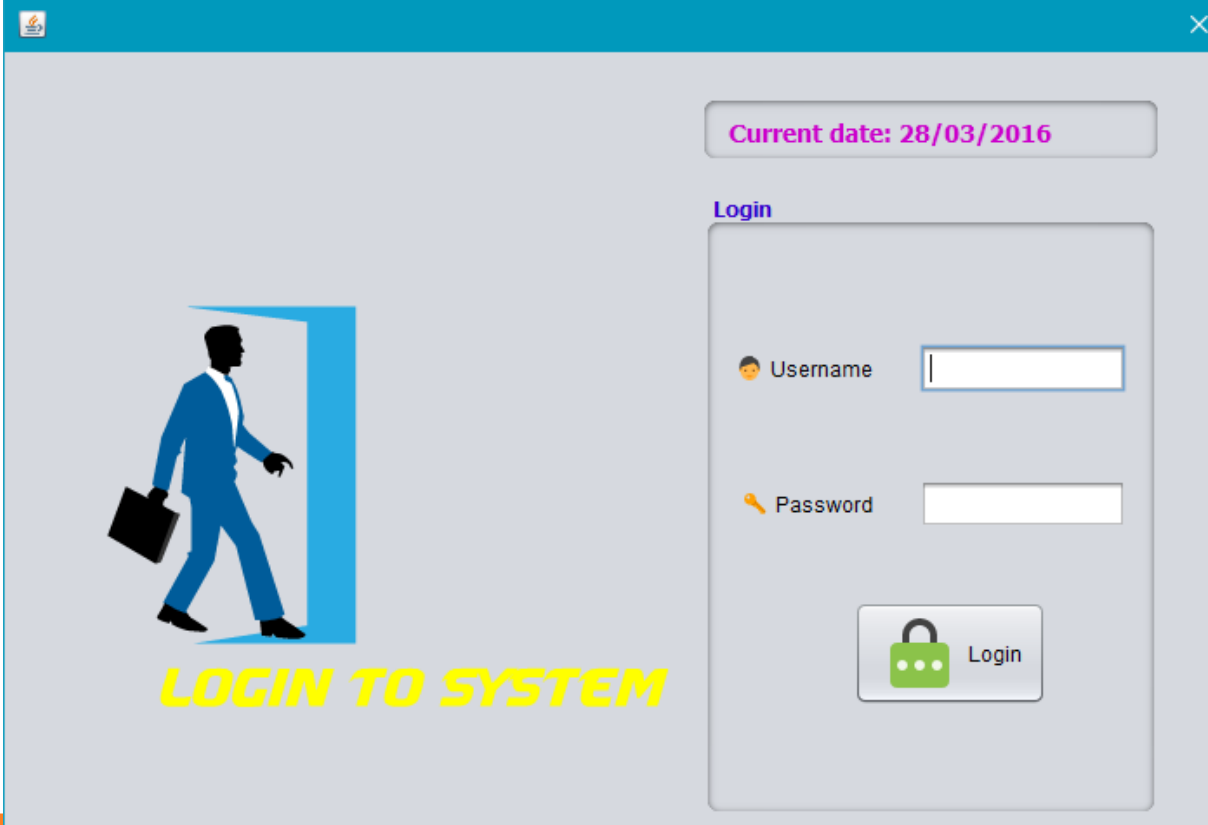
SCREENSHOTS

Main Form




SCREENSHOTS


Login Form





Current date: 28/03/2016

Login

 Username

 Password

 Login



LOGIN TO SYSTEM

SCREENSHOTS

Add User Form

Add A New User


Username *


Password *

Verify Password *

Role ▼

EMP ID *

 Add

 Cancel

SCREENSHOTS

Manage Employee Form

The screenshot shows a web application interface for managing employees. It features a search bar, a set of command buttons (Add, Save Edit, Delete), a form for entering employee details, and a table listing existing employees.

Search

EMP001

Commands

- Add
- Save Edit
- Delete

Employee Information

Name:

Email:

Phone:

Address:

Skill: ☐ Java ☐ .NET ☐ HTML5 ☐ SQL

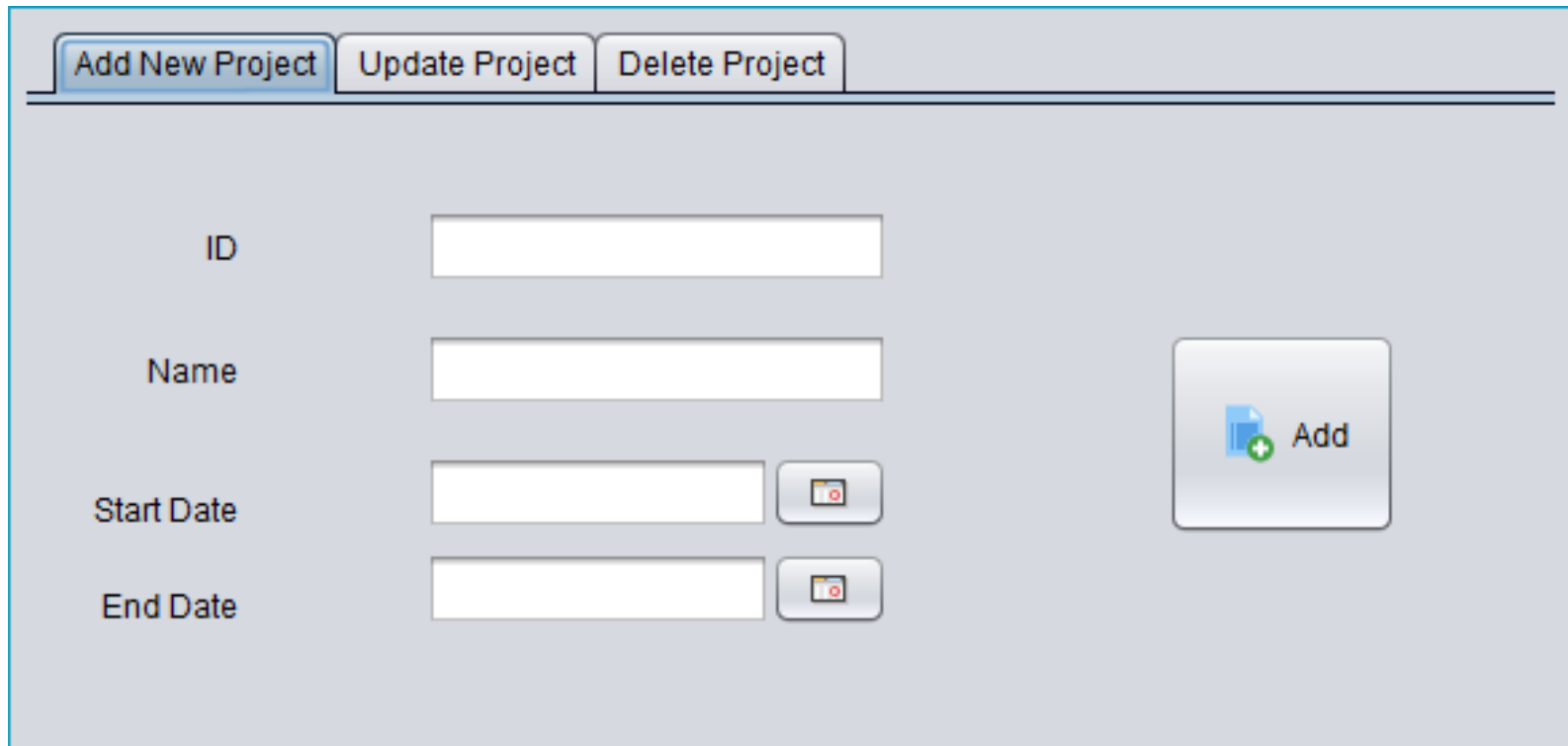
Current status:

Position:

ID	Name	Position	Skill
EMP001	a	Trưởng phòng	Java .Net HTM...
EMP002	c	Kế toán	Java .Net
EMP003	d	Giám đốc	Java .Net HTM...
EMP004	e	Trưởng phòng	Java .Net
EMP005	a	Giám đốc	
EMP007	h	Thủ quỹ	Java .Net

SCREENSHOTS


Manage Project Form



The screenshot displays a web-based form for managing projects. At the top, there is a horizontal bar containing three buttons: "Add New Project" (highlighted with a blue border), "Update Project", and "Delete Project". Below this bar, the form is organized into two main sections. On the left, there are four labeled input fields: "ID", "Name", "Start Date", and "End Date". Each of these fields is followed by a small calendar icon, indicating that date pickers are used for the "Start Date" and "End Date" fields. On the right side of the form, there is a large, light gray button with a blue document icon and a green plus sign, labeled "Add". The entire form is set against a light gray background.

SCREENSHOTS

Search Employee Form



Search by: ☒ All ☐ EMPID ☐ Name ☐ Project ID ☐ Free on

ID	Name	Position	Skill	Current Pro...	Start Date	End Date
EMP004	e	Trưởng phò...	Java .Net	Project 2	2016-03-20...	2016-03-30...
EMP001	a	Trưởng phò...	Java .Net H...			
EMP002	c	Kế toán	Java .Net			
EMP003	d	Giám đốc	Java .Net H...			
EMP005	a	Giám đốc				
EMP007	h	Thủ quỹ	Java .Net			

Employee Detail

ID: EMP002

Name: c

Skill: ☒ Java ☒ .NET ☐ HTML 5 ☐ SQL

Current Project:

From date:

To date:

Email: c

Phone: c

Transfer History


id	employ...	fromPr...	toProje...	status	approv...	startDa...	endDate
TRF003	EMP002	PRJ001	PRJ002	Approv...		2016-0...	2016-0...

Transfer

Project ID:

Start Date:

End Date:

 Request

☐ I've read these information carefully and want to recruit this employee to my project.

SCREENSHOTS

Search Record Form

The screenshot shows a web application window titled "Search Record" with a close button in the top right corner. The form is divided into two main sections: "Search Term" and "Search By".

Search Term: A text input field is located next to a "Search" button with a magnifying glass icon.

Search By: This section contains two groups of radio buttons. The first group has four options: "EMPID" (selected), "From Project", "To Project", and "All". The second group has one option: "Date".

Date Selection: Below the "Date" radio button, there are two rows of date pickers. The first row is labeled "From Date" and the second row is labeled "To Date". Each label is followed by a text input field and a small calendar icon.

Result: Below the search options, there is a section titled "Result" containing a table with the following headers: "Transfer ID", "EMPID", "From Project", "To Project", "Status", "Approve By", "Start Date", and "End Date". The table body is currently empty.

Close Button: A "Close" button with a red 'X' icon is located in the bottom right corner of the window.

SCREENSHOTS

New Transfer Form

Create A New Transfer

Find Employee:

Search By

☒ Free from date **To date**

☒ Current Project ID

☐ Skill ☐ Java ☐ SQL

☐ .NET ☐ HTML

☐ All Free at Today

Note: Only PM can Request, only HR can Approve

Request / Approval

To Project

Employee list **Moved**

SCREENSHOTS

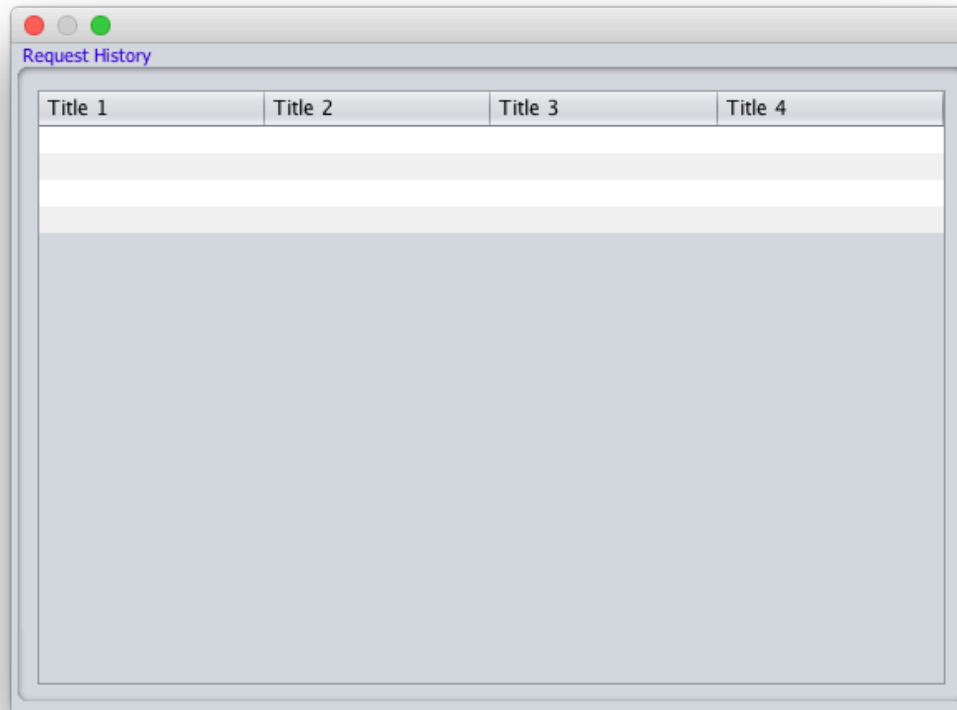
Transfer Approval Form

The screenshot shows a software window titled "Transfer Approval Form" with a blue header bar. On the left, a "Command" panel contains three buttons: "Approve" (with a green checkmark icon), "Decline" (with a red 'X' icon), and "Cancel" (with a red circle and slash icon). The main area is titled "Transfer History" and features a filter section with the text "Show:" followed by four radio buttons: "All Transfer", "Pending Transfer" (which is selected), "Approved Transfer", and "Declined Transfer". Below the filter is a table with the following data:

ID	Employee ID	From Proje...	To Project ID	Status	Approved by	Start Date	End Date
TRF014	EMP004		PRJ002	Pending		2017-01-0...	2017-01-0...
TRF030	EMP005	PRJ001	PRJ002	Pending		2016-05-1...	2016-05-1...

SCREENSHOTS

Transfer Request Log Form

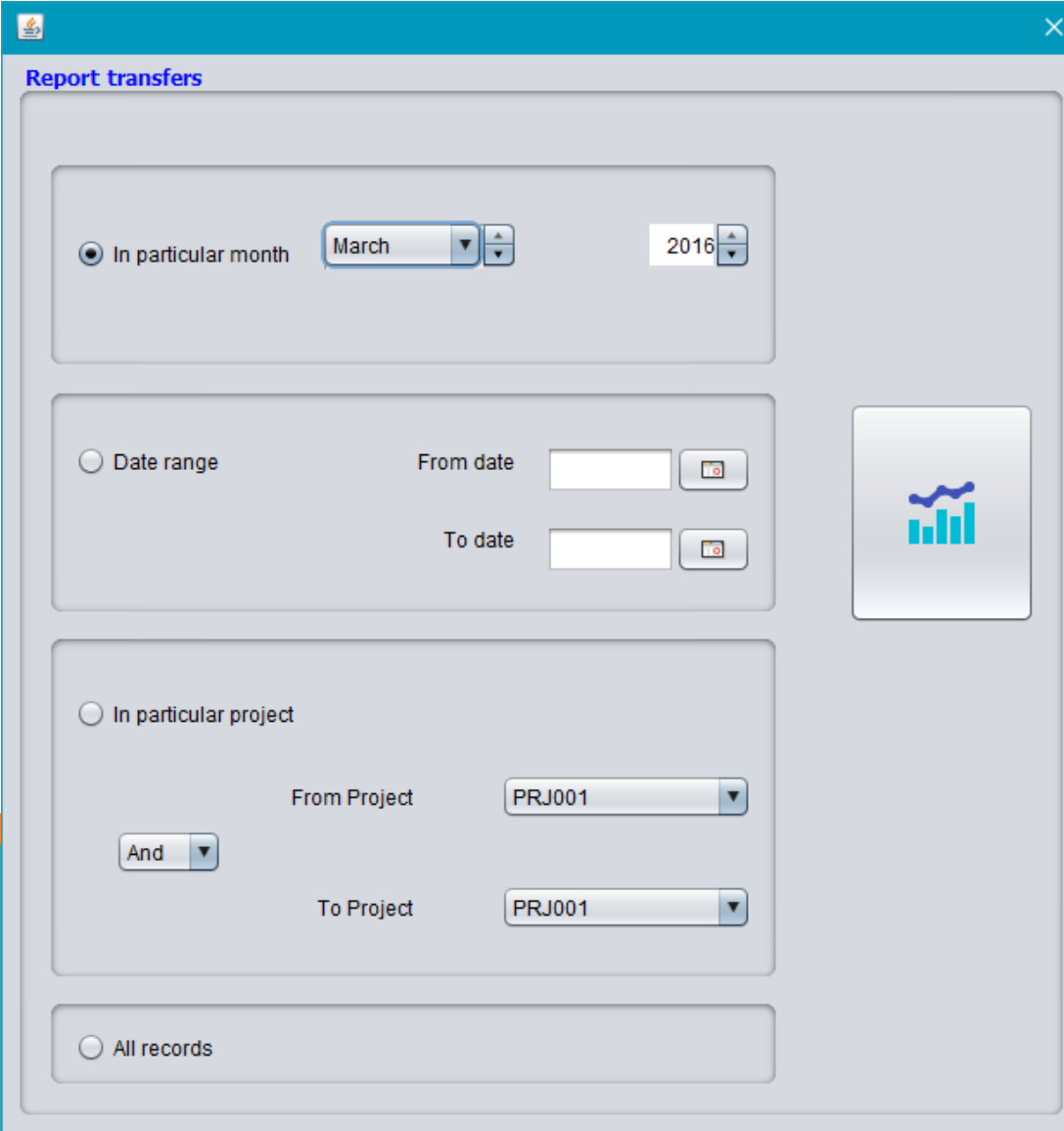


The screenshot shows a window titled "Request History" with a table containing four columns: "Title 1", "Title 2", "Title 3", and "Title 4". The table has three rows of data, with the first row highlighted in light gray. The window has a standard macOS-style title bar with red, yellow, and green buttons.

Title 1	Title 2	Title 3	Title 4

SCREENSHOTS

Generate Report Form



The screenshot shows a web application window titled "Report transfers" with a close button in the top right corner. The form contains four radio button options for filtering data:

- ☒ In particular month: A dropdown menu shows "March" and a year selector shows "2016".
- ☐ Date range: Two date input fields labeled "From date" and "To date", each with a calendar icon.
- ☐ In particular project: A dropdown menu shows "PRJ001". Below it, an "And" dropdown menu is followed by another "To Project" dropdown menu also showing "PRJ001".
- ☐ All records

On the right side of the form, there is a square button with a blue bar chart icon.

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!

