CP2013 ASSESSMENT TASK: **Project Part-1**

[Total awarded _____ out of 100 marks] ASSESSMENT TASK CRITERIA SHEET

The following is the list of items which are required to be completed in this assignment. Maximum possible marks are
given in brackets at the beginning of each item.

[_____/10 marks] Assignment is done in a group with 3-5 students.
Write group members here:
Zoe McIntosh: JavaScript/HTML/MySQL Programming zoe.mcintosh@my.jcu.edu.au
Steven Marks: Java/MySQL Programming steven.marks1@my.jcu.edu.au.
Daniel White: JavaScript/HTML/MySQL Programming daniel.white1@my.jcu.edu.au.
Adam McCormick: Java/MySQL Programming adam.mccormick@my.jcu.edu.au

[_____/5 marks] Assignment is completed using electronic copy of *this* document (available from LearnJCU).

[_____/5 marks] Assignment (*this* filled out document) is submitted to LearnJCU electronically. One submission per team.

[_____/10 marks] Project description for non-ICT-technical stakeholders and general audience.
Include project goals, deliverables, scope, major milestones, assumptions, constraints, and initial risks (if any). Write here: minimum **ONE** page, maximum **TWO** pages.

[___/2] Project goals, Justification for the project;
Client has requested a payroll system for their business, allowing for access, either by stand alone Application (App) or Web based platform by employees and the company.

Create a simple payroll system, with access to the system from either a Java based app or a standard HTML5 web browser using a Wordpress based CMS platform.

The system is to contain the following features to satisfy client demands:

1. Administration are able to add an employee
2. Administration are able to delete an employee.
3. Company will has three types of employees:
    - Salaried employees are paid monthly on last working day of month, and
    - Hourly employees submitted daily and paid on last day of working week with 1.5 rate of overtime when more than 8 hours are worked in a day, and
    - Commission are based on a percentage of submitted sale receipts with a salary component, paid fortnightly on last day of working week.
4. Input a time card.
5. Input a sales receipt.
6. Union Membership Deduction option.
7. Employees may be paid directly into bank account or by cheque, selectable by employee.
8. Payroll run each day to collate payments.
9. Administration are able to edit an employee (Project Specific variation).

Technical Specifications for system:
This will be accomplished using a Java Application and a JavaScript/HTML/CSS website on a Wordpress CMS platform. Both systems will share a common back-end utilizing a MySQL Database.

[___/2] Deliverables;

Alpha Release of the Payroll System will consist of a working edition of salaried, salaried plus commission and hours based workers with the option of union fee deduction interacting with a robust and accessible database by both applications.

[___/2] Major milestones and timeline;

Project Plan

Aligning with Extreme Programming practices we will be delivering milestones every two weeks.

Schedule	Milestone(s) to be delivered
Week 6	US001
Week 6	US002
Week 6	US003
Week 8	US004
Week 8	US005
Week 8	US006
Week 10	US007
Week 10	US008
Week 12	US009
Week 12	US010

[___/2] Assumptions and risks (***specific to the project***);

We shall be using Javascript and JQuery within a Wordpress environment. Team is unfamiliar with the extent of controls and operations of an database within the Wordpress environment. In addition team needs the database to be available for interaction with the Java App concurrent with the Web environment.

[___/2] Something specific for your project.

Project has added the ability to edit existing employee information including commission, type of pay, payment method, bank details, and union membership.

[_____/10 marks] Planning and scope of alpha-release.
Write here: Minimum **ONE** page, maximum **THREE** pages.

Project plan is to implement the existing code contained in section 3 of the textbook and then integrate the two platforms with the database progressively.

Team Members = 4. Hours per week = 3. Weeks of study = 10.
Points available are 120.

Number	User Story	Time Allocated
US001	Admin Can Add A New Employee	10
US002	Admin Can Delete An Employee	5
US003	Admin Edit Employee Details	15
US004	Admin/User Can Post a Timecard	15
US005	Admin/User Can Post a Commission Based Timecard	10
US006	Admin Can Change Commision percentage	5
US007	Admin Can Select Union Membership per Employee	10
US008	Admin Can Change Employees Payment Method	15
US009	Admin Can Change Employees Unions Due Rates	5
US010	Admin Runs the payroll for the day including pay disbursement.	30

Total 120 hours.

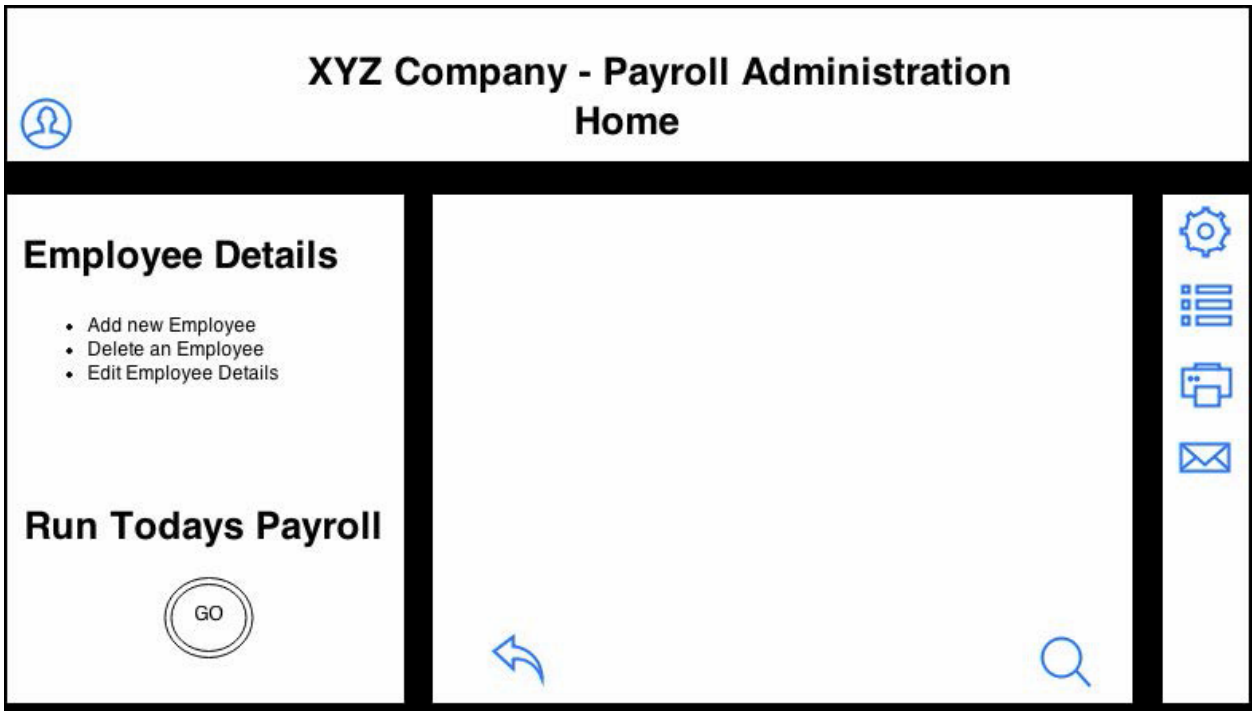
[_____/10 marks] Project sponsor/client/customer signed/agreed to the scope of the alpha-release.
Deleted as not a component of this assignment.

[_____/10 marks] Planning and scope of the final-release (Project audit at the end of CP3047/5047 subject).
Deleted as not a component of this assignment.

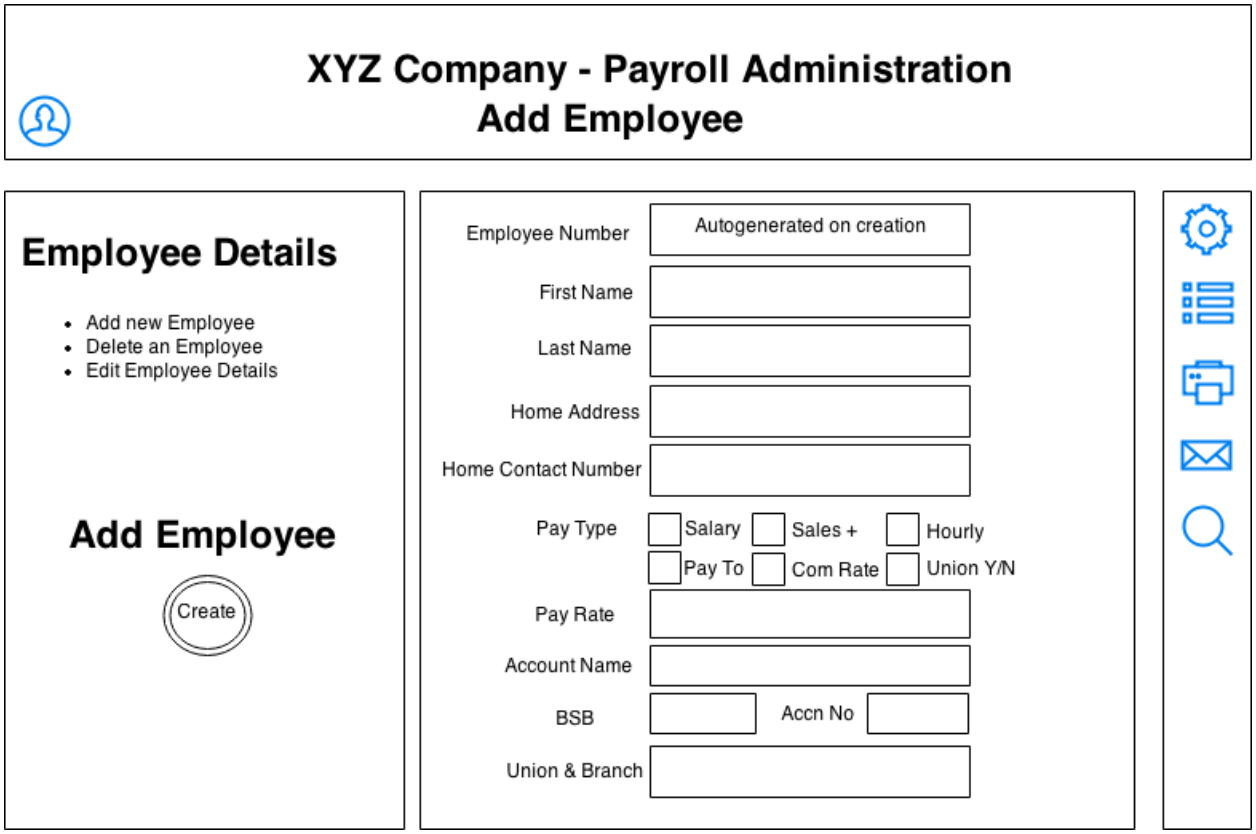
[_____/10 marks] Project sponsor/client/customer signed/agreed to the scope of the final-release.
Deleted as not a component of this assignment.

[_____/10 marks] ***High level*** **design for ICT-technical audience.** Write here: minimum **TWO** pages, maximum **FIVE**
pages.
[___/4 marks] Screen/User Interface ***logical layout*** designs;

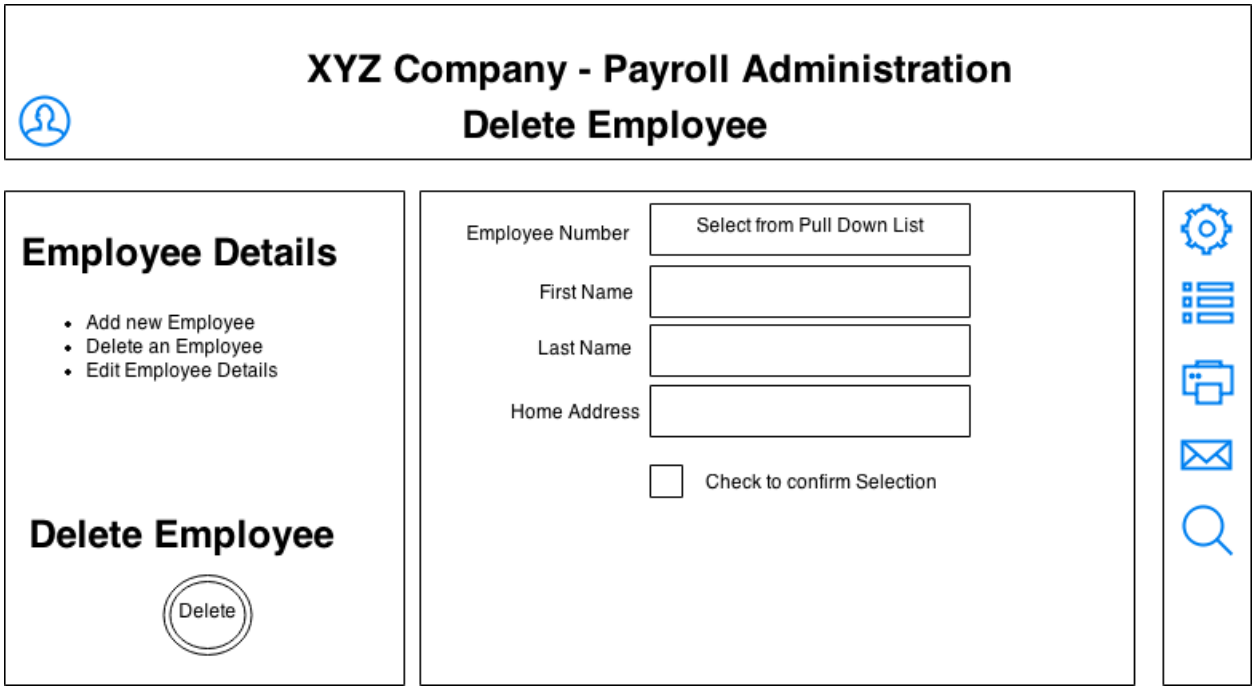
Screen 1 Admin Front Page



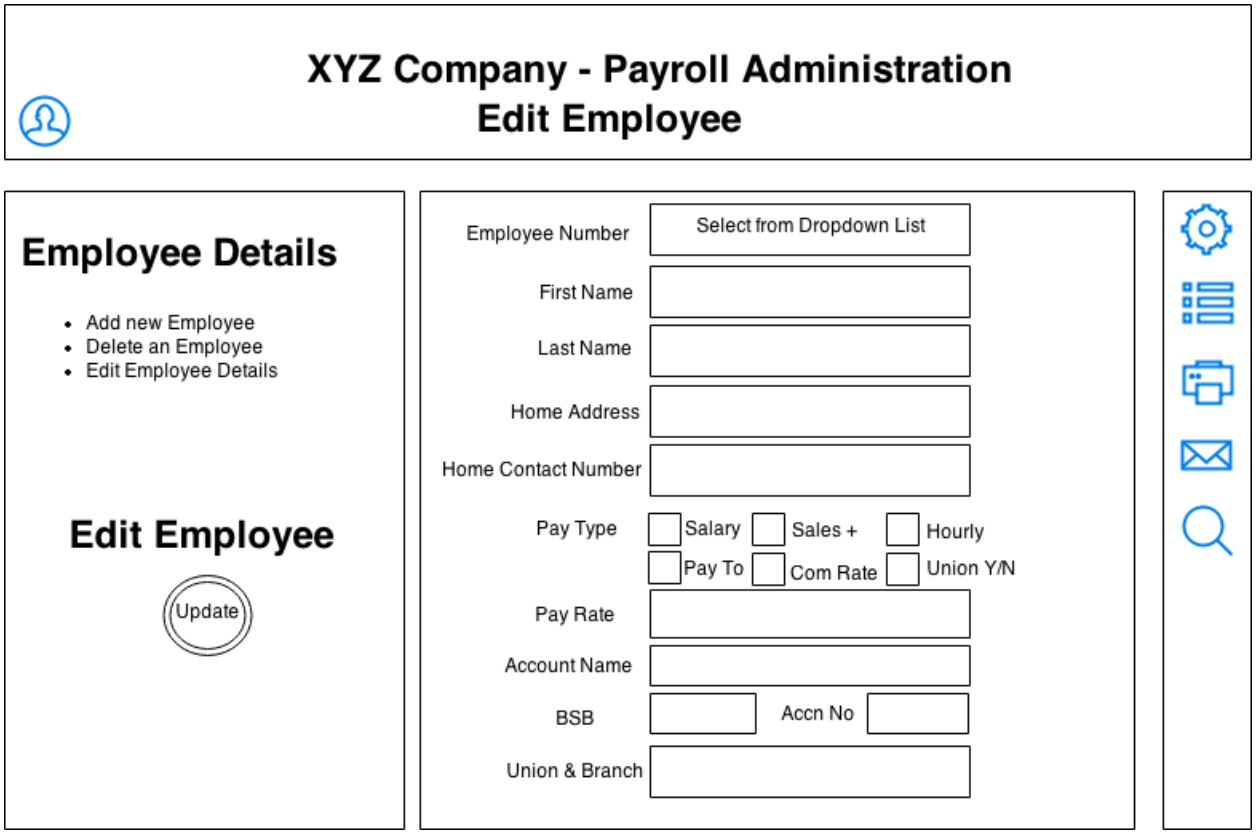
Screen 2 Add Employee Form



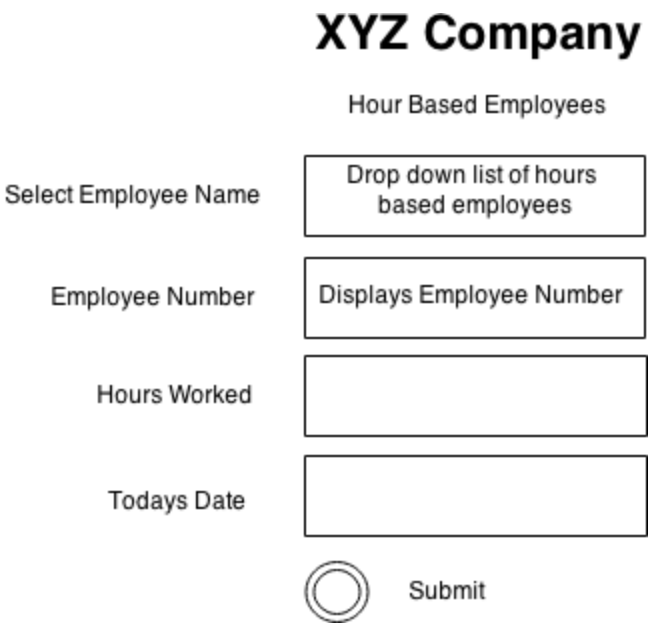
Screen 3 Administration Delete Employee Form



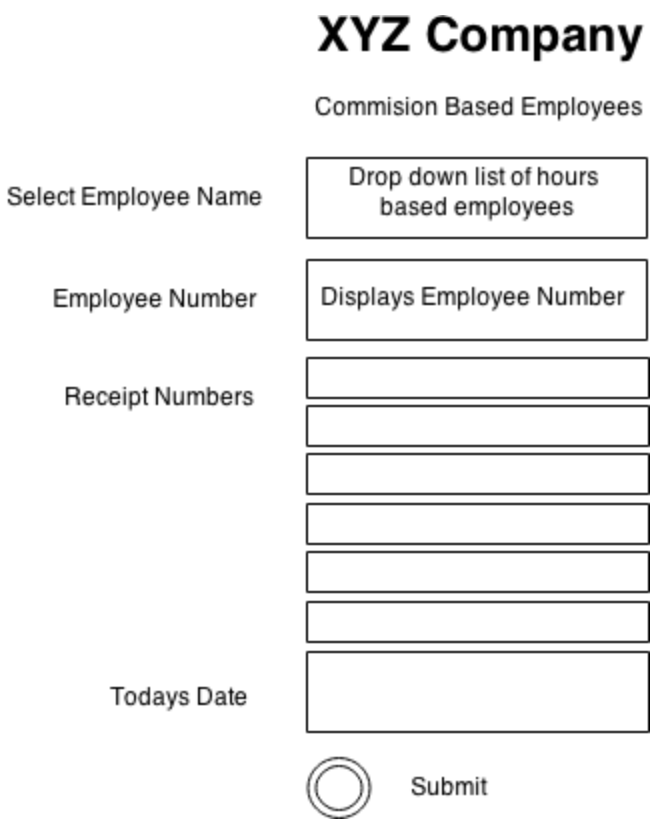
Screen 4 Administration Edit Employee Form



Screen 5 Hourly Employee Time Entry Form

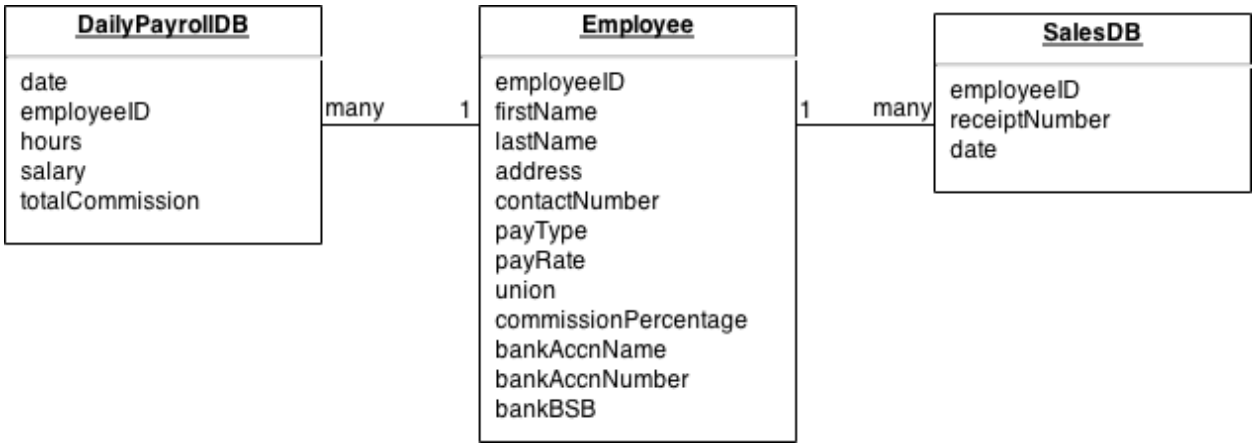


Screen 6 Commision Based Employee Sales Entry Form

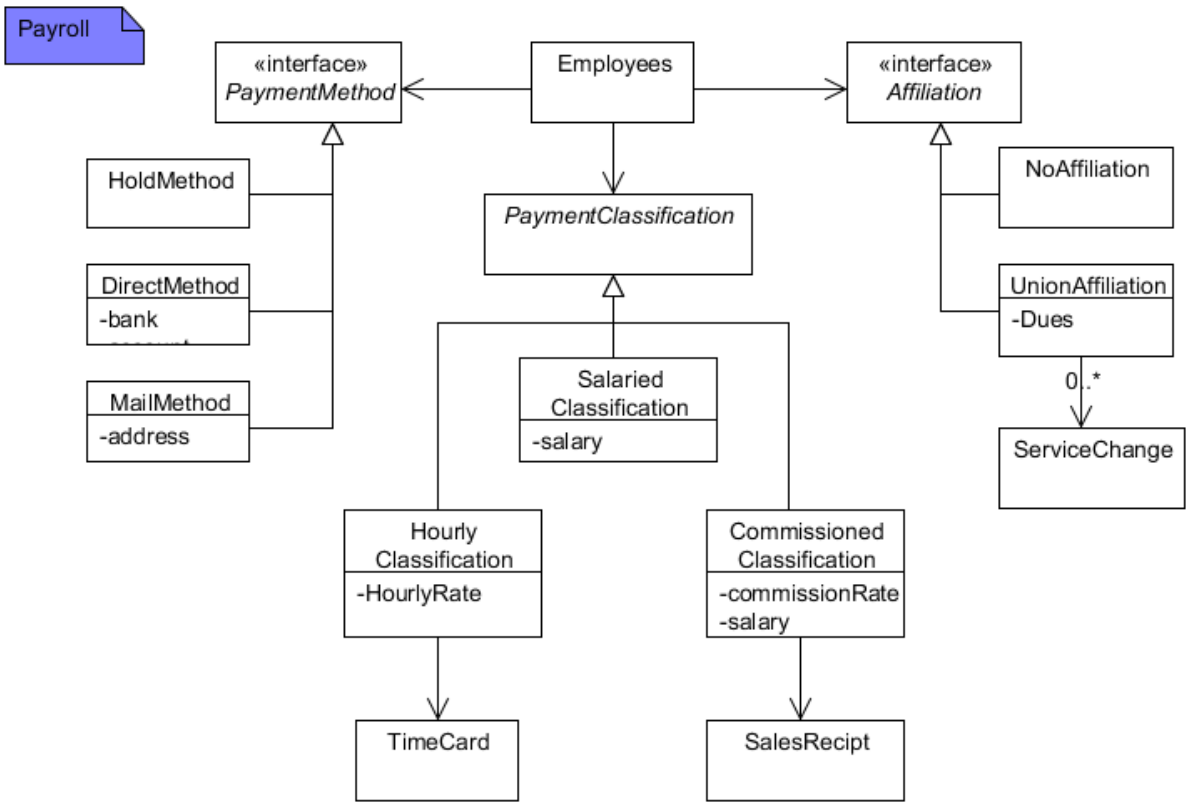


[___/4 marks] ERD, UML class diagram, domain model;

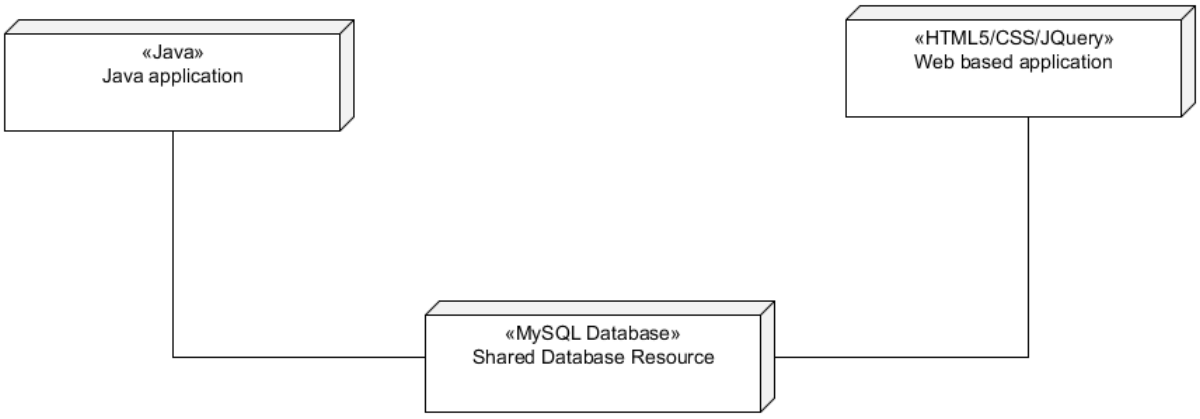
Entity Relationship Diagram



UML Class Diagram

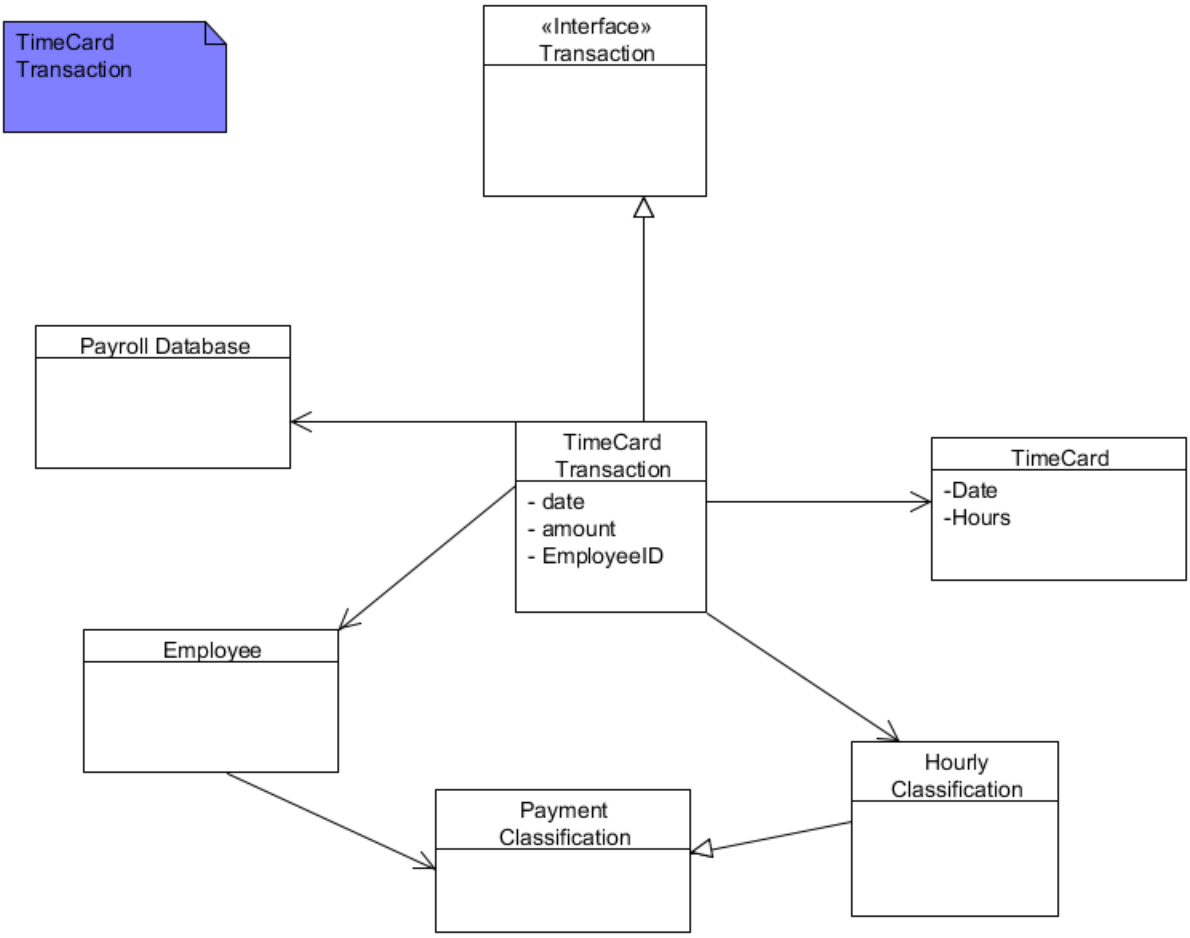


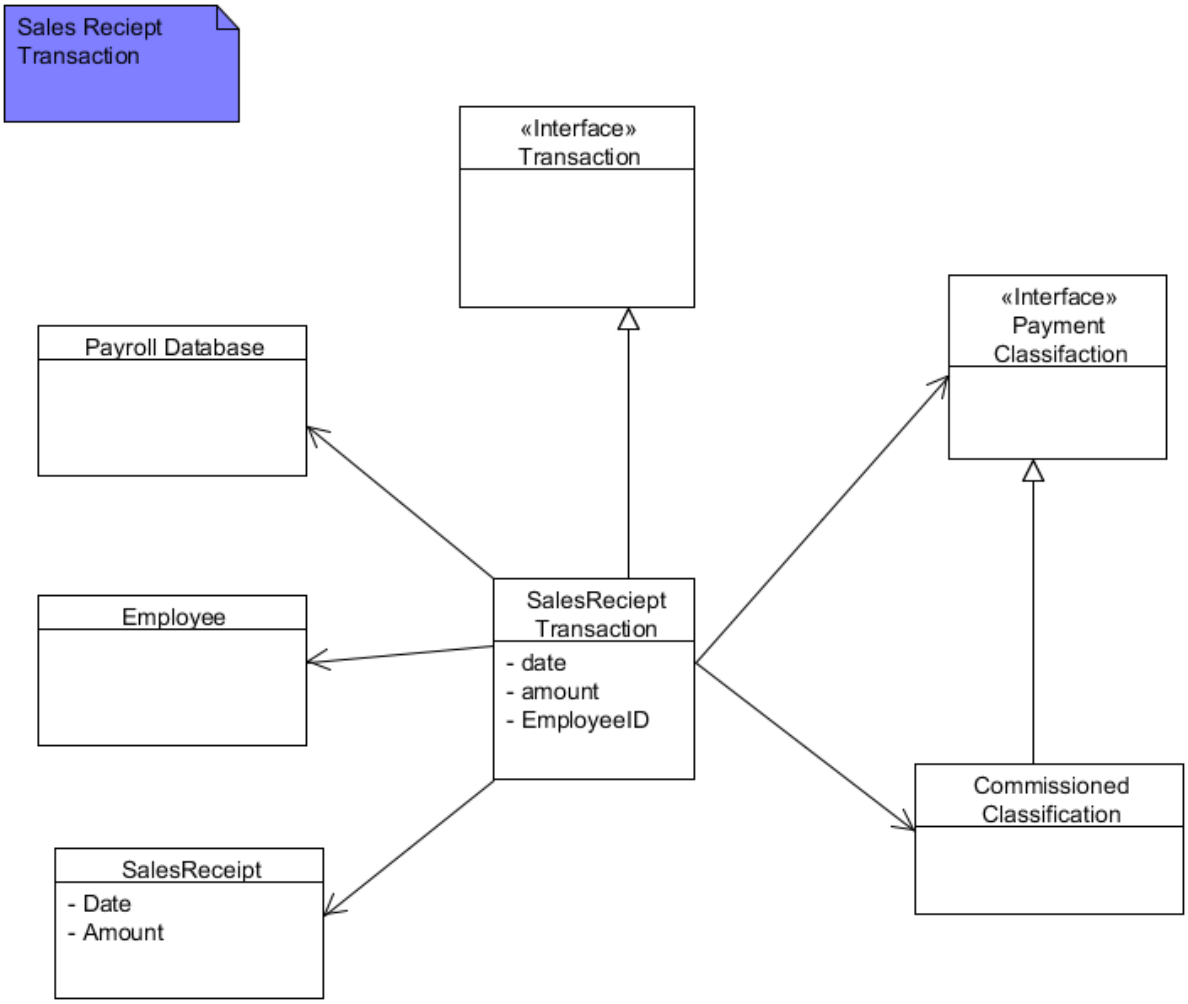
Domain Model

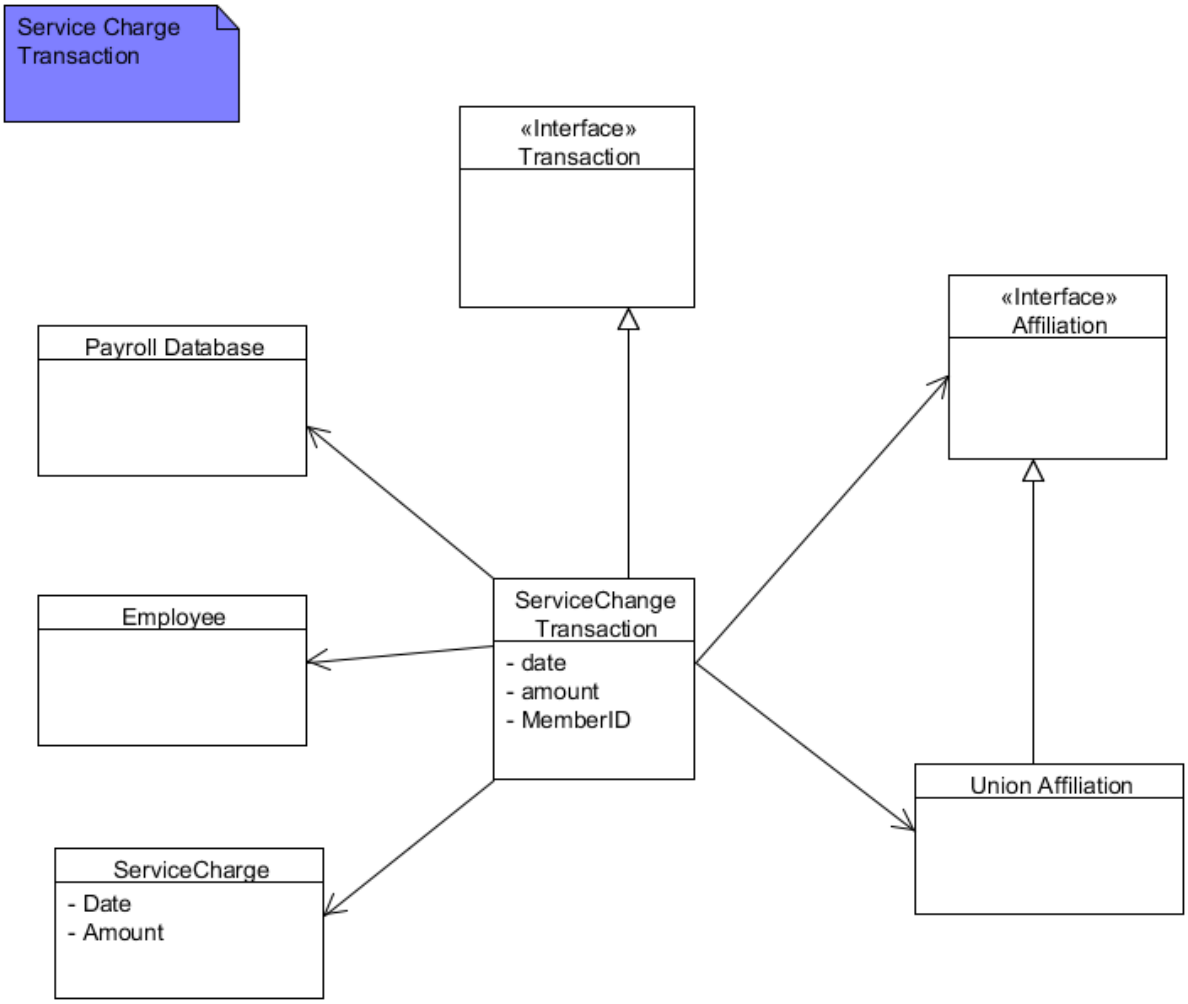


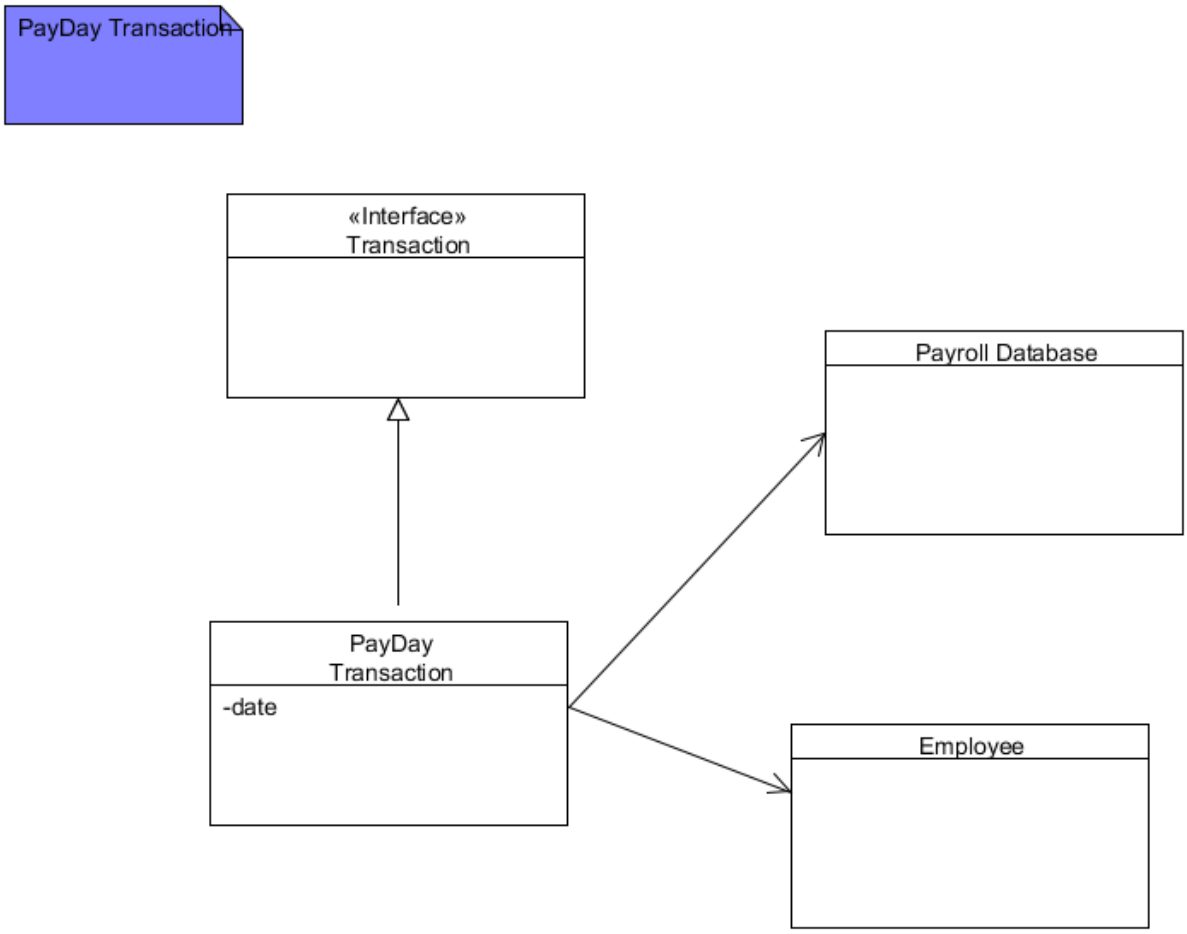
[___/2 marks] UML Deployment diagram, or other relevant UML diagrams

UML Diagrams

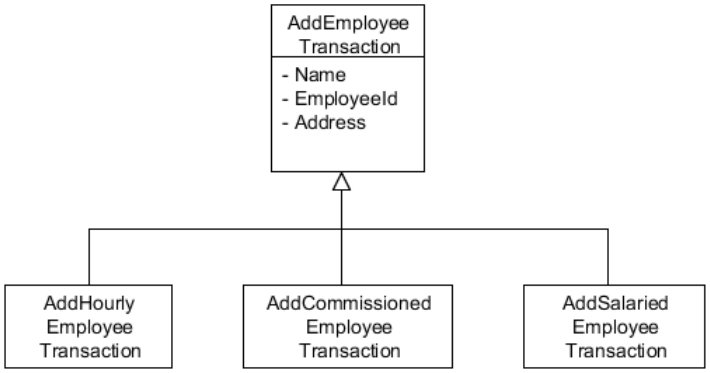



Sales Reciept
Transaction
«Interface»
Transaction
«Interface»
Payment
Classifaction
Payroll Database
Employee
SalesReciept
Transaction
- date
- amount
- EmployeeID
Commissioned
Classification
SalesReceipt
- Date
- Amount

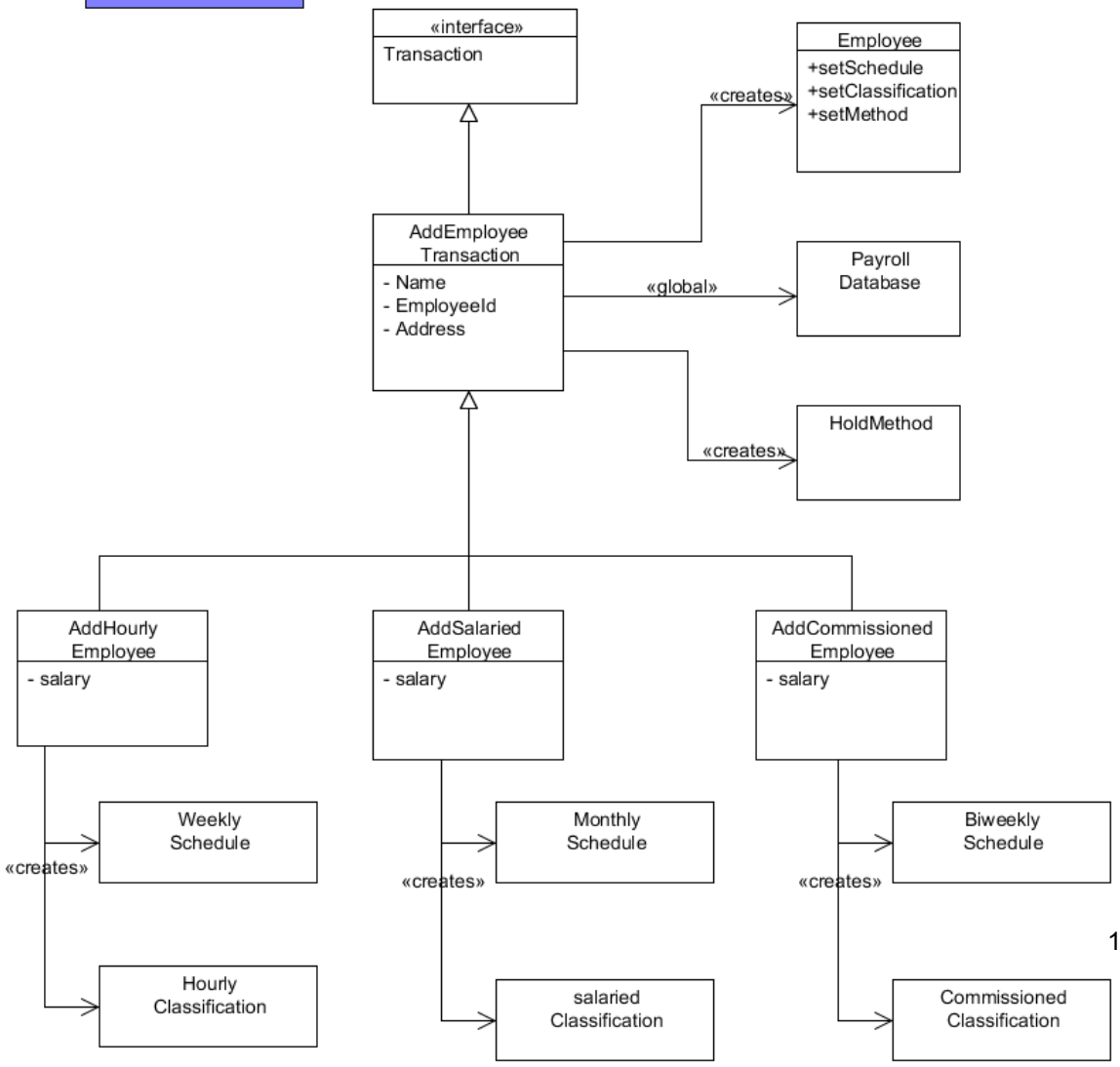

Service Charge Transaction
«Interface» Transaction
«Interface» Affiliation
Payroll Database
Employee
ServiceChange Transaction
- date
- amount
- MemberID
Union Affiliation
ServiceCharge
- Date
- Amount

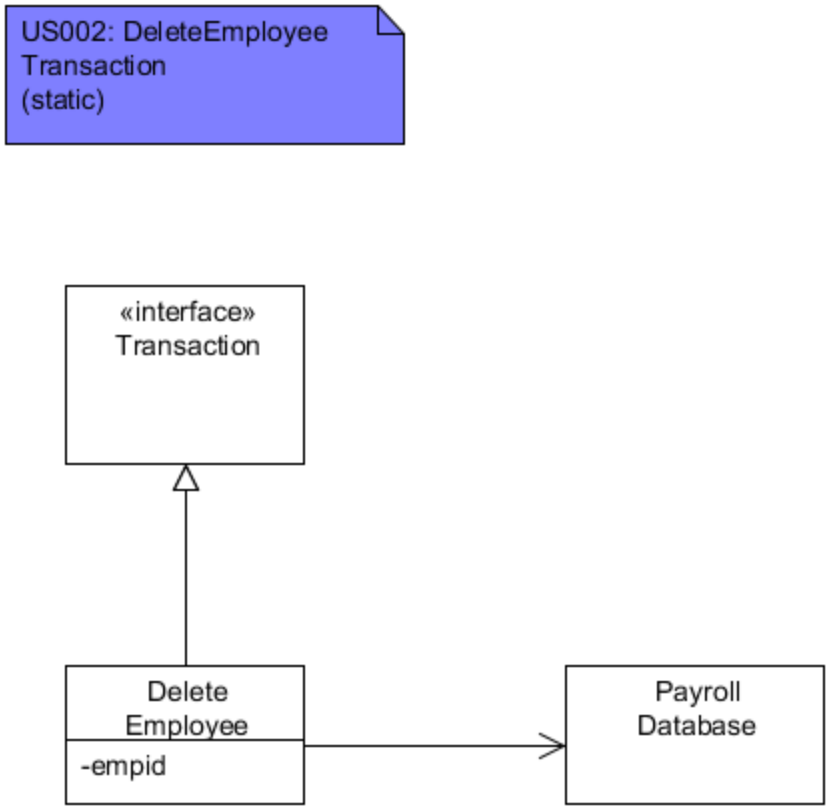

PayDay Transaction
«Interface»
Transaction
Payroll Database
PayDay
Transaction
-date
Employee

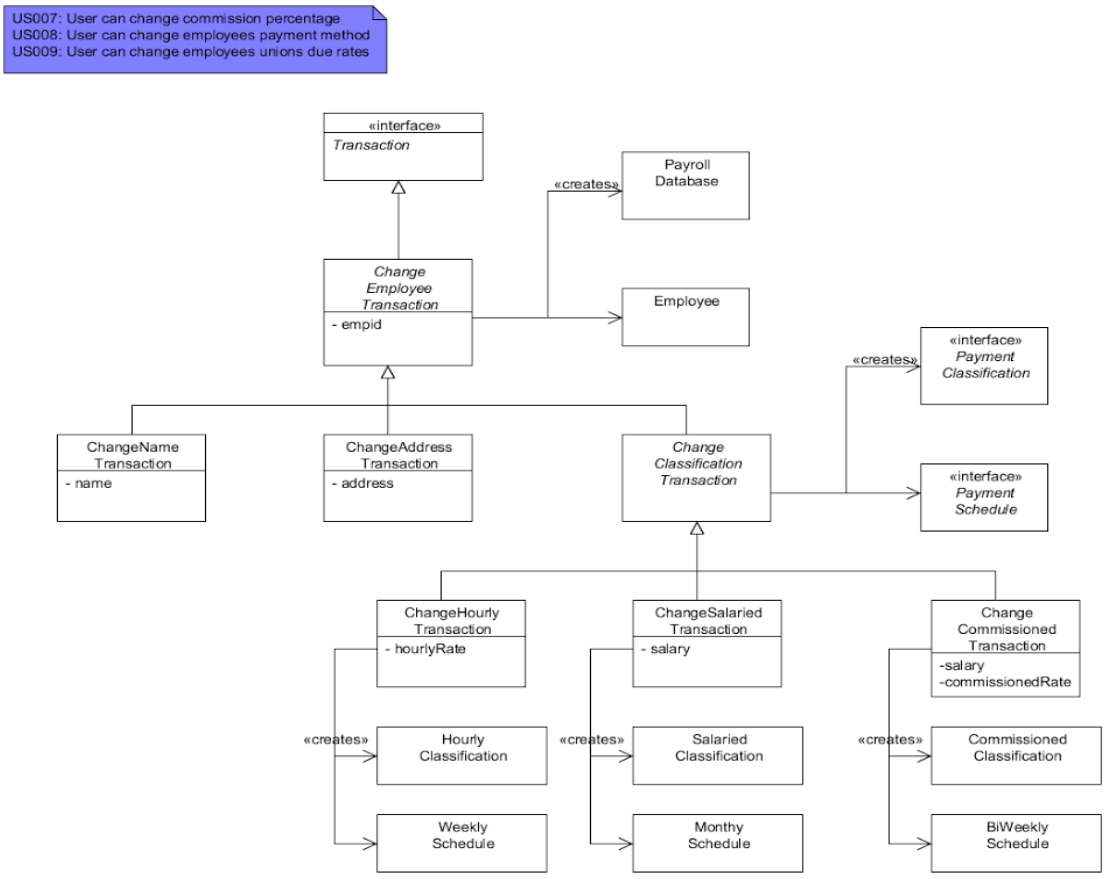
US001: AddEmployee Transaction (Dynamic Model)

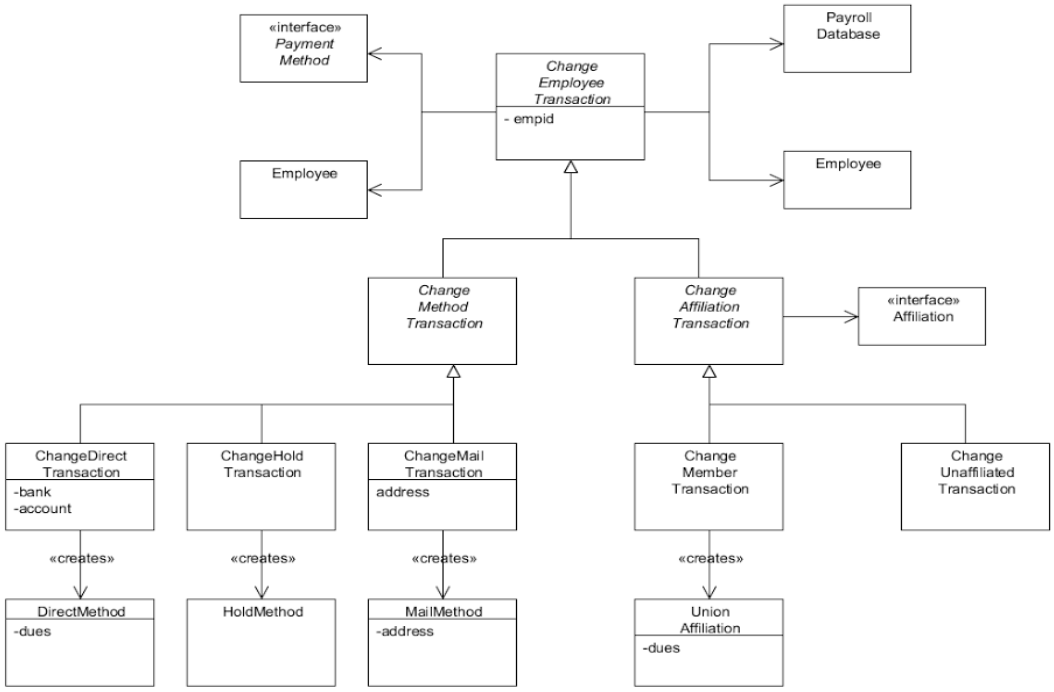


US001: AddEmployee Transaction (Static Model)




US002: DeleteEmployee
Transaction
(static)
«interface»
Transaction
Delete
Employee
-empid
Payroll
Database


US007: User can change commission percentage
US008: User can change employees payment method
US009: User can change employees unions due rates
«interface»
Transaction
Payroll Database
«creates»
Change Employee Transaction
- empid
Employee
«interface»
Payment Classification
«creates»
ChangeName Transaction
- name
ChangeAddress Transaction
- address
Change Classification Transaction
«interface»
Payment Schedule
ChangeHourly Transaction
- hourlyRate
ChangeSalaried Transaction
- salary
Change Commissioned Transaction
-salary
-commissionedRate
«creates»
Hourly Classification
Salaried Classification
Commissioned Classification
Weekly Schedule
Monthy Schedule
BiWeekly Schedule


«interface»
Payment Method
Payroll Database
Change Employee Transaction
- empid
Employee
Employee
Change Method Transaction
Change Affiliation Transaction
«interface»
Affiliation
ChangeDirect Transaction
-bank
-account
ChangeHold Transaction
ChangeMail Transaction
address
Change Member Transaction
Change Unaffiliated Transaction
«creates»
DirectMethod
-dues
HoldMethod
MailMethod
-address
Union Affiliation
-dues

[_/10 marks] Project development ICT infrastructure. This must include development environment, programming languages, source code repositories (Configuration Management), project collaboration tools, and development tools. Write here: minimum **ONE** page, maximum **TWO** pages.
[___/2 marks] **Configuration Management**/version control, e.g. git, github, heroku, bitbucket;

Version Control will be via GitHub repository, documentation control is by Google Documents. Established project folder and shared between team members on Google Drive.

Established GitHub repository stevenm0084/cp2013v2 with access enabled for each team member. Team members are using the Git App that simplifies the synchronizing of files for this project

[___/2 marks] **Programming language**/IDE,

Java using Eclipse IDE.

JavaScript,HTML,CSS using WebStorm from IntelliJ.

Wordpress from Wordpress.org.

MySQL to be edited using phpMyAdmin via XAMPP server.

[___/2 marks] **Testing** tools, data and procedures (what and how you are planning to test), e.g. junit;

Java testing to be built as per TDD standards within Agile practices.

JSLint to be used for JavaScript testing.

Manual tests for database from web platform and Java Application.

[___/2 marks] **Project Building** tools, e.g. how to set-up your development environment for a new team member;

New team members are to review the documents located on the Google Drive Shared project folder.

They are to download and install Eclipse from Oracle and the latest version of Webstorm from IntelliJ. The University has access to Webstorm so approach the instructor for a key for this program.

MySQL Server can be downloaded via Dreamspark using a University account.

XAMPP is downloadable from XAMPP.org and this includes the phpMyAdmin interface to edit MySQL database.

[___/2 marks] Something specific to your project and not covered by the above.

Team will be undertaking exercises in pair programming to trial method and assist in collaboration.

[_____/10 marks] Project release ICT infrastructure. All ICT infrastructure required for the alpha-release must be in place. For example, deployment tools, external server/hosting, domain names. Write here:
minimum **ONE** page,
maximum **TWO** pages.

[___/2 marks] **Release building** tools/procedures, e.g. git-push to heroku;

Release Build will be version controlled by GitHub.Release testing version to be pushed from Github to server prior to milestone notification. Each pushed element will have instructions on scope and use for proof of concept.

[___/2 marks] **Client testing** and access to release, e.g. domain name, domain hosting; **Client training document, and procedures**;

Customer interim release will be via downloadable from www.makaustralia.com/clients with a login and password enabled portal. Java Application will be presented as a downloadable application in .JAR format from the above address. Website interface will be hosted at same login protected location (http://www.makaustralia.com/clients/cp2013HelloWorld.html).

As each stage is released the applicable application and web page will be presented at this location for user review and testing. Feedback via email to team members is the path for communication for any issues or variations for this project.

[___/2 marks] **Release testing** tools, data and procedures (what and how you are planning to test);

Release testing to occur within week 12 prior to final submission. A manual suite of tests will be supplied to prove correct operation of each required element of the requested design.

[___/**4** marks] Something specific to your project and not covered by the above.

Hosting of active MySQL server for out of hours testing to be confirmed before final release.