APRIL 26, 2016

EMPLOYEE INFORMATION PORTAL

SAI DINESH VALLAMSETTI

SPRING-2016

Sponsor Evaluation:

MSIT Student Internship (INFT6993) Final Evaluation

(To be filled out by the internship sponsor or supervisor upon completion of the internship)

Student's First Name: <u>Sai Dinesh</u> Last Name: <u>Vallamsetti</u>

Dear Sponsor/Supervisor of INFT6993 Internship Project,

Thank you for taking the time to work with the above ATU student in the fall 2015 semester.

Your candid assessment of the internship project and the performance of the student would be most appreciated. Information on this evaluation will be used to help the student intern improve professional performance and will serve as a component of the student's grade of this course. Please make specific suggestions about qualities that need to be emphasized and ways that the intern can improve. For other feedback or comments that may not be expressed by this evaluation form, you are welcomed to provide by the following contact.

Thank you,

Matt Brown, Ph.D.
Associate Professor
Computer & Information Science
Arkansas Tech University
Russellville, AR 72801

hbrown11@atu.edu
(479) 356-2161

1. **How well prepared was the intern for this job?**

   excellent   poor
   ✓5   4   3   2   1

2. **How effectively was the *project proposal* and *final product* presented to you?**

   very effectively   not effectively
   ✓5   4   3   2   1

3. **How and how often were you informed with the project progress or status?**

   ☐ email   ☐ phone   ☑ meeting   ☐ informal talk   ☐ constant/direct supervision
   ☐ once/week   ☐ once/two weeks   ☐ once/month   ☐ once/semester   ☐ not informed

4. **How satisfied are you with the interaction you had with the student this semester?**

very satisfied   not satisfied

5   4   3   2   1

5. **Does the student actually complete the project as you expect?**

☑ yes   ☐ no, it's _____ % completed according to the proposal.

6. **Do you think the student has demonstrated that they can execute his/her professional responsibilities in a disciplined and ethical manner?**

fully   poorly

5   4   3   2   1

7. **How satisfied are you with the project the student has completed?**

very satisfied   not satisfied

5   4   3   2   1

8. **Based on this experience, would you be interested in having another ATU student intern in the future?**

☑ yes   ☐ no

9. **Using a scale between 0 and 100, what overall score range would you give to this project/student?**

☑ 90 - 100   ☐ 80 - 89   ☐ 70 - 79   ☐ 60 - 69   ☐ below 60

10. **What recommendation or suggestion, if any, would you make about our internship program?**

_____

_____

_____

_____

_____

11. Any other comments you would care to share would be most appreciated.

_____

_____

_____

_____

_____

_____

Sponsor or Company Supervisor of the project:

Company or Organization or Office Name: Idealogix, LLC

Job Title: Officer

Name (Print): Dilip Vadlamudi

Contact Phone#: (317)218-9952

E-mail: dilip@idealogix.us

Signature: _____   04 / 25 / 2016

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Project and Sponsor Description:

"Employee Information Portal" serves as a web portal to save, modify and retrieve the employee information of an organization. Pyramid Technology Solutions is an organization which provide resources for many leading clients throughout the country. Earlier they used excel sheet to maintain their employee information. Now they wanted to maintain the information in an organized and flexible way which reduces the human effort. Idealogix Llc is a start-up organization located in Indianapolis. Idealogix Llc provide technical support to Pyramid Technology Solutions.

Proposal and Plan:

The proposal was to develop a web portal using Java J2EE as a core technology, HTML, xhtml, xml and JSP for the front end, Oracle/ MySQL as a back end and Apache tomcat Server as a Web application Server. Project is implemented in agile methodology.

Technologies and Frameworks Used:

- Java 7, J2EE, JSF and Spring MVC
- HTML5, XML, CSS3, XHTML and JSP
- SQL

Tools Used:

- Eclipse Mars.2
- Oracle SQL Developer, MySQL Workbench, MySQL Server 5.5.40
- CSS generator.

Third –Party Support:

- Primefaces.

Report 1:

Progress Report 1 for INFT6993 Internship

◼ **The name of your project:**
   Employee Information Portal

◼ **Is there any significant change or modification to your original project proposal or plan?**
   No

◼ **Based on your original plan, what percentage of your total project has been completed?**
   35%

◼ **How many times have you reported or presented to your sponsor regarding the project status?**

As a developer, my responsibility is to report to my project manager and my project manager will report to my sponsor.

- **How often do you contact or meet your sponsor regarding the project?**
  Rarely, only if necessary.

- **What's the average number of hours you spend on the project each day, Mon ~ Fri**
  6-8, 40

- **Write the technology, tools, books, articles, equipment's, or concepts that you used in the project but not learned from classes.**
  JSP's, Servlets, Struts, Spring MVC, JavaScript
  Apache Tomcat Server, Eclipse, Junit, Maven
  Java T Point, SCJP book, YouTube

- **Do you write journal or log regularly about your project? How often?**
  Weekly Once

- **Describe your major accomplishment of the project so far.**
  Collected and sorted requirements and started design implementation. (Extend this part for more details, if necessary)

- **Any special (technical and non-technical) difficulties or problems happened to your project?**
  None

- **Do you expect any changes for the project to continue? What are they?**
  None

- **Do you think you can complete the project by April 27, 2016? Why or Why not?**
  Yes, as everything is going as per project schedule/plan.

- **Other details about the project progress that are not reported in the above sections?**
  None

■ Copy and attach here the Project Schedule table from your project plan (i.e., section B) and write a percentage (%) at the end of each line of task to indicate the amount of work that has been completed as of today.

1	Requirement Gathering and Analyzing.	100%	80	01-19-2016	02-01-2016
2	Preparing the design and Test Cases	50 %	120	02-02-2016	02-23-2016
3	Development		160	02-24-2016	03-25-2016
4	Development and Integration		160	03-28-2016	04-29-2016
5	Test Case Execution		80	05-01-2016	05-15-2016
6	Release			05-16-2016	

Report 2:

Progress Report 2 for INFT6993 Internship

■ **The name or topic of your project:**
Employee Information Portal

■ **Based on your original plan and the previous progress report, is there any more significant change or modification that occurs to your project?**
We were planning to use oracle 11 g XE instead of MYSQL

■ **According to your original plan, what percentage of your project has been completed at this stage?**
60%

■ **How many times have you reported or presented to your sponsor regarding the project progress since last progress report?**
One time.

■ **Do you have meetings with your sponsor for discussion? What date?**
No

■ **What's the average number of hours you spend on the project each day, Mon ~ Fri?**
6-8, 40

■ **Any findings or experience about the project that worth documenting here?**
Using Advanced/Latest Concepts, tools and plugins like MVC Framework, Hibernate, Maven.

■ **Describe your major accomplishment of the project since last progress report.**
Completed the GUI part.

■ **Does your project encounter special (technical and non-technical) difficulties or problems recently?**
Due to limited budget and less man power, lots of work being assigned, but feeling good to learn new things.

- **Do you travel because of the need of project? When and where?**
  No

- **Do you expect any changes for the project to continue? What are they?**
  Yes, there might be significant changes in the Project Schedule (Beginning and Projected dates of completion) and the client is ok with it as he needs it by end of May 2016.

- **Do you think you can complete the project by April 27, 2016? including your project portfolio with a final report and presentation?**
  Yes

- **The final presentation should be given to the class and instructor on April 27, 2016. Have you informed your sponsor about this presentation and started organizing material and making a plan for it?**
  Yes

- **Other details about the project progress that are not reported in the above sections?**
  None

- **Copy and attach here the Project Schedule table from your project plan (i.e., section B) and write an updated percentage (%) at the end of each line of task to indicate the amount of work that has been completed as of today.**

No	Task Description	Product/Document Completed	Total Effort (hours)	Begin Date	Projected Date of Completion
1	Requirement Gathering and Analyzing.	100 %	80	01-19-2016	02-01-2016

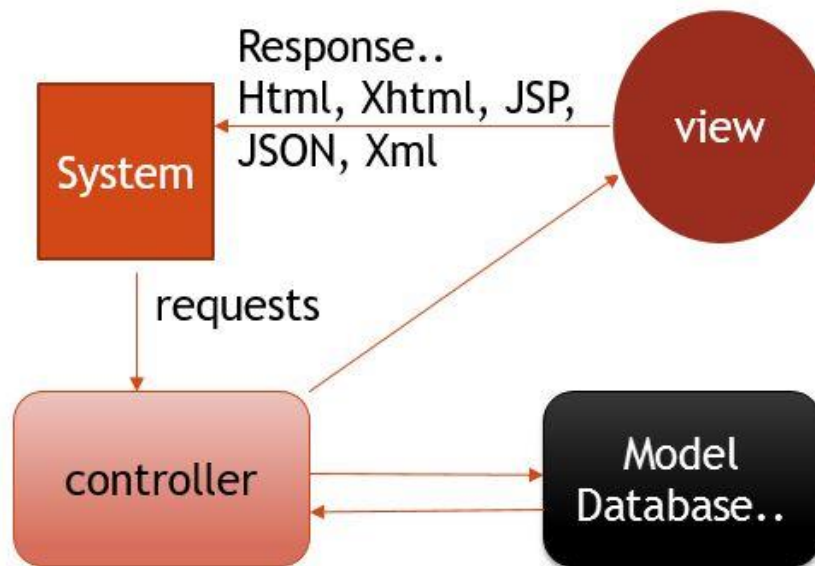|					
2	Preparing the design and Test Cases	100 %	120	02-02-2016	02-23-2016
3	Development	60 %	160	02-24-2016	03-25-2016
4	Development and Integration	90%	160	03-28-2016	04-29-2016
5	Testing		80	05-01-2016	05-15-2016
6	Release			05-16-2016	

Technology:

JSF - Java Server Faces

Advantages:

- Implements MVC Architecture
- Flexible for Web-based UI Interfaces
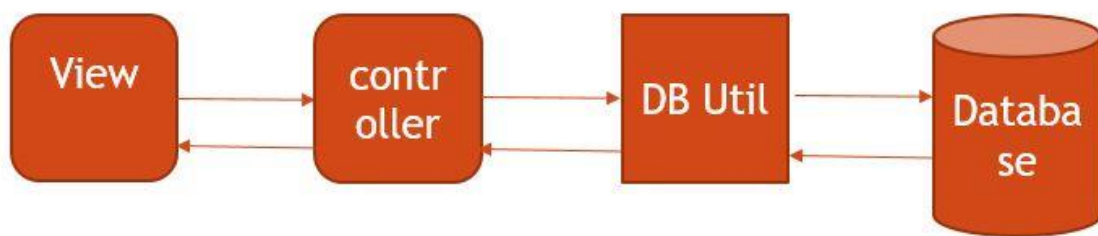- Data Transfer is easy.
- Secured[MVC]
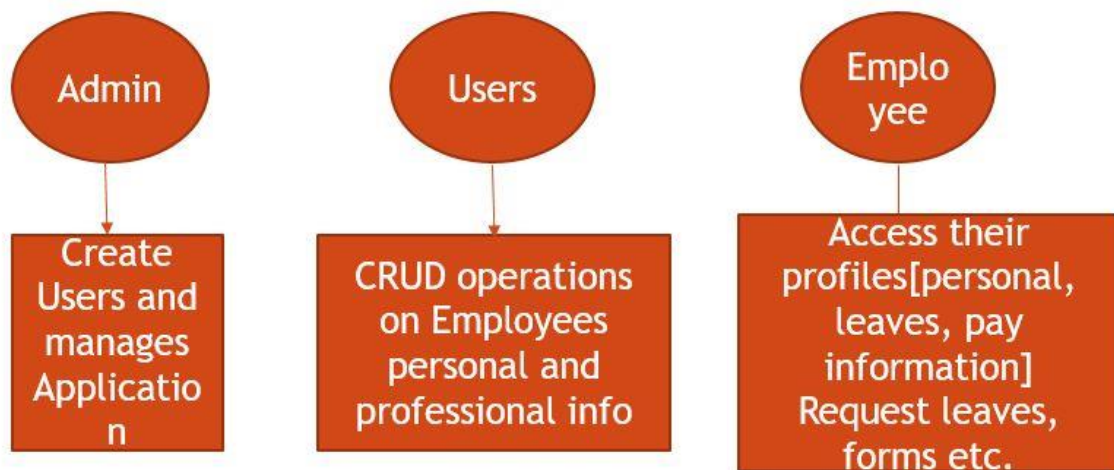
- Standard HTML inputs.

MVC Diagram:

- User send requests from view layer to controller
- Controller interacts with Model.
- Model is where data persist
- Model sends response to controller
- Controller send the response to view.
- View renders the data to users in the form of HTML, XHTML and JSP.

JSF-Flow

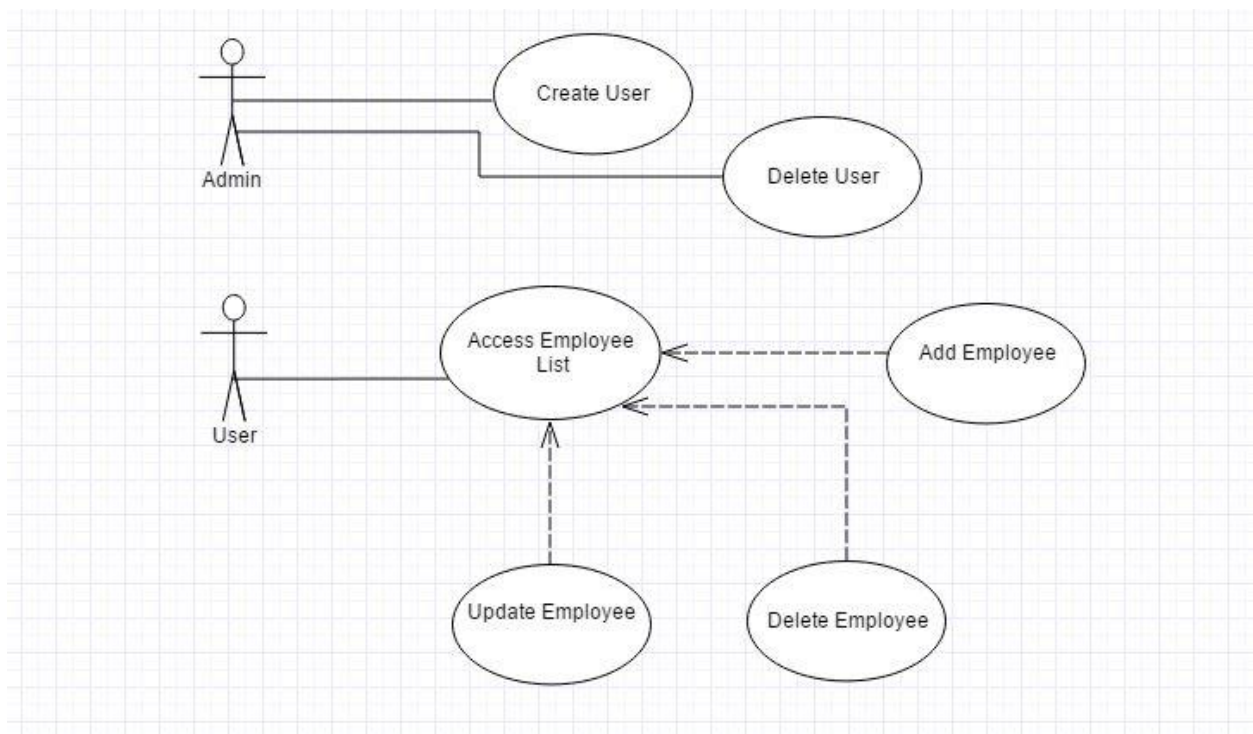Db Utility class serves as an interface between Controller and database.

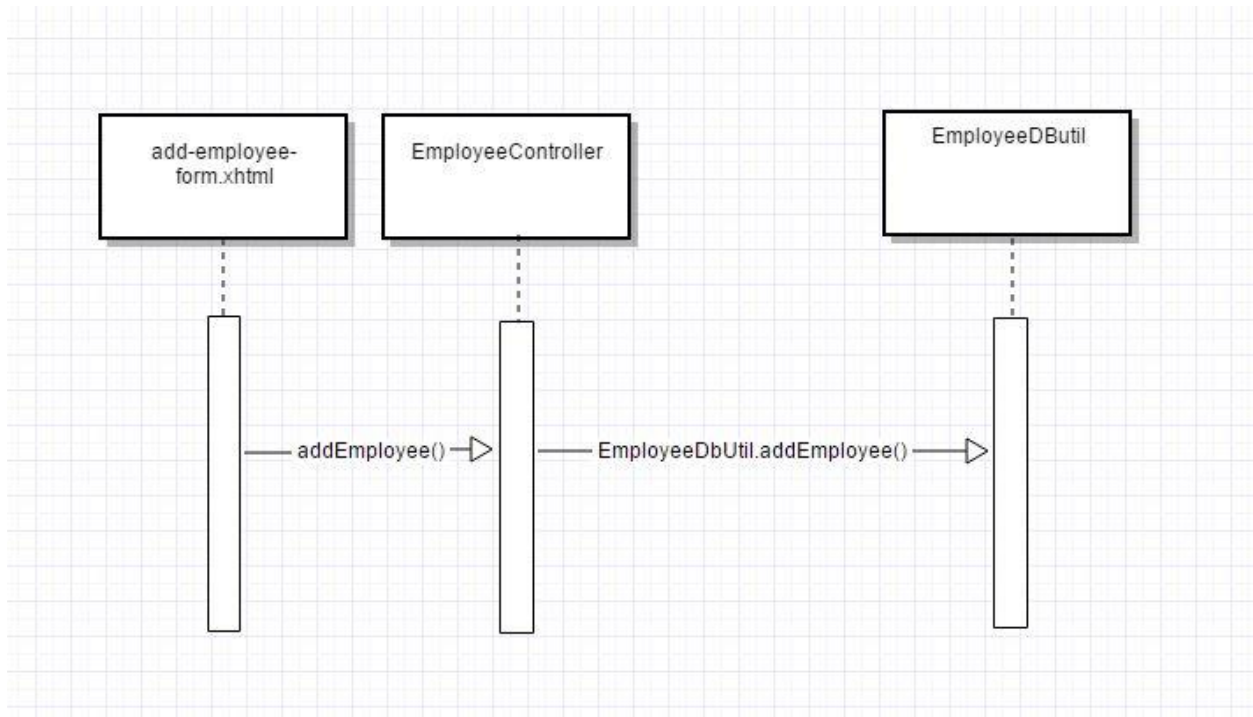**Project Users and Responsibilities:**

- Admin Creates users and manages application
- Users manages CRUD operations on employees, Create employee, update and delete employees.
- Employee can access their personal Information, request leave, forms and pay Stubs.

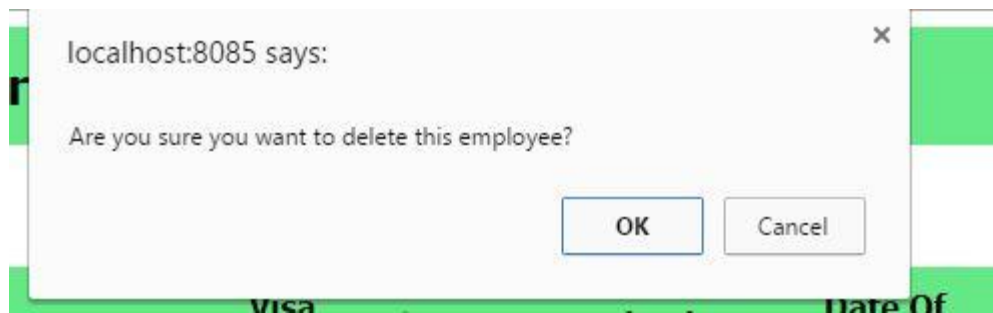## UML Diagrams:

1.0 Use-Case:

2.0 Sequence Diagram

Code Snippets and Screen Shots:

1.0 Validations:

VISA   Date Of

```
<h:inputText value="#{employee.lastName}" id="lastName"
    required="true" requiredMessage="LastName is mandatory." />
<h:message for="lastName" style="color:red"/>
```

Add Employee

Pts Id:*		Pts_ID field is mandatory.
FirstName:*		FirstName is mandatory.
LastName:*		LastName is mandatory.
Email:*		Email is mandatory.
VisaType:*		VisaType is mandatory.
Contact:*		Contact Info is mandatory.
Technology:*		Technology field is mandatory.
DateOfBirth:*		Date Of Birth field is mandatory.
Date Of Joining:*		Date Of Joining field is mandatory.
Date Of Leaving:*		Date Of Leaving field is mandatory.

Save

2.0 CRUD Operations:

```xml
        <h:column>

            <f:facet name="header">Pts Id</f:facet>


        #{tempEmployee.ptsId}
    </h:column>

        <h:column>

            <f:facet name="header">First Name</f:facet>


        #{tempEmployee.firstName}
    </h:column>
```

```java
public void loadEmployees() {

    logger.info("Loading employees");

    employees.clear();

    try {

        // get all Employees from database
        employees = employeeDbUtil.getEmployees();
```

```java
public Employee(String ptsId, String firstName, String lastName, String email, String visaType, String contact,
        String technology, String dateOfBirth, String dateOfJoining, String dateOfLeaving) {
    this.ptsId = ptsId;
    this.firstName = firstName;
    this.lastName = lastName;
    this.email = email;
    this.visaType = visaType;
    this.contact = contact;
    this.technology = technology;
    this.dateOfBirth = dateOfBirth;
    this.dateOfJoining = dateOfJoining;
    this.dateOfLeaving = dateOfLeaving;
}
```

PTS-Employee Information Portal

Add Employee

Pts Id	First Name	Last Name	Email	Visa Type	Contact	Technology	Date Of Birth	Date Of Joining	Date Of Leaving	Update/Delete
pts1235	Prasad	Gali	prasad.gali@gmail.com	H1B	317-749-6250	Data Warehousing	1984-11-12	2016-02-11	2016-02-11	Update | Delete
pts1236	Rama Raju	Gottimukkala	ramaraju.gottimukkala@hotmail.com	H1B	317-603-4819	Java	1987-02-06	2016-26-01	2016-02-05	Update | Delete
pts1238	Bharath	Maheshwaran	bharath.maheshwaran@hotmail.com	H1B	317-749-6548	Java	1985-05-06	2016-20-01	2016-01-04	Update | Delete
pts1234	Sai Dinesh	Vallamsetti	svallamsetti@atu.edu	F1	479-747-7482	JAVA	1992-10-25	1995-10-25	1995-10-02	Update | Delete
pts1237	nishanth	vongati	nishanth.vongati@gmail.com	H1B	657-225-2621	UI	1989-11-04	2016-01-03	2016-01-04	Update | Delete

Update Employee

Pts Id: pts1235

First name: Prasad

Last name: Gali

Email: prasad.gali@gmail.com

Visa Type: H1B

Contact: 317-749-6250

Technology: Data Warehousing

Date Of Birth: 1984-11-12

Date Of Joining: 2016-02-11

Date Of Leaving: 2016-02-11

Save

Back to List

```
try {
    myConn = getConnection();

    String sql = "update employee_details "
            + " set first_name=?, last_name=?, email=?, visa_type=?, contact=?, technology=?,"
            + " date_of_birth=?, date_of_joining=?, date_of_leaving=? "
            + " where pts_id=?";

    myStmt = myConn.prepareStatement(sql);

    myStmt.setString(1,theEmployee.getFirstName());
    myStmt.setString(2,theEmployee.getLastName());
    myStmt.setString(3,theEmployee.getEmail());
    myStmt.setString(4,theEmployee.getVisaType());
    myStmt.setString(5,theEmployee.getContact());
    myStmt.setString(6,theEmployee.getTechnology());
    myStmt.setString(7,theEmployee.getDateOfBirth());
    myStmt.setString(8,theEmployee.getDateOfJoining());
    myStmt.setString(9,theEmployee.getDateOfLeaving());
    myStmt.setString(10,theEmployee.getPtsId());
```

3.0 DB Calls:

pts_id	first_name	last_name	email	visa_type	contact	technology	date_of_birth	date_of_joining
pts1234	Sai Dinesh	Vallamsetti	svallamsetti@atu.edu	F1	479-747-7482	JAVA	1992-10-25	1995-10-25
pts1235	Prasad	Gali	prasad.gali@gmail.com	H1B	317-749-6250	Data Warehousing	1984-11-12	2016-02-11
pts1236	Rama Raju	Gottimukkala	ramaraju.gottimukkala@hotmail.com	H1B	317-603-4819	Java	1987-02-06	2016-26-01
pts1237	nishanth	vongati	nishanth.vongati@gmail.com	H1B	657-225-2621	UI	1989-11-04	2016-01-03
pts1238	Bharath	Maheshwaran	bharath.maheshwaran@hotmail.com	H1B	317-749-6548	Java	1985-05-06	2016-20-01
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
<Context>

    <Resource name="jdbc/pts_employee_info"
              auth="Container" type="javax.sql.DataSource"
                  maxActive="20" maxIdle="5" maxWait="10000"
                  username="root" password="test123"
                  driverClassName="com.mysql.jdbc.Driver"
                  url="jdbc:mysql://localhost:3306/pts_employee_info"/>
</Context>
```

	FIRSTNAME	LASTNAME	USERNAME	PASSWORD
1	2 sai	Dinesh	svallamsetti	a6ea7a96503e718937530265a02a3884

4.0 Maven Installations:

m2e connector for jaxws-maven-plugin	0.0.1.201505100425	com.coderplus.m2e.jaxws.feature.group
m2e connector for the Maven Dependency Plugin	0.0.4.201410161303	com.ianbrandt.tools.m2e.mdp.feature.fea...

Status:

The project is under integration phase where each module developed is being integrated.

Future Works:

Impressive CSS can be added, adding JavaScript framework functionality can enhance the application. Using Angular JS can convert the whole project into "Single page Application" which reduces the code complexity and provides feasibility to users. Stored Procedures also enhances the data side functionality.

INFT Courses:

INFT 5203, 5303

Things Learned:

Java, J2EE, JSF, Maven.

Conclusion:

Contributed my knowledge in developing a secure and reliable web application which improved the client time and human efforts.

Implementing the CRUD operations is a challenging task, from which I got scope to learn, explore many new technologies and frameworks. Gained good hands-on and also professional experience. Improved coding and debugging skills.