



MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL

A Constituent Institution of Manipal University

Synopsis

Clearance Optimization Engine

**SUBMITTED
BY**

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130905580

Under the Guidance of:

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STORES TEAM
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DETAILS OF THE ORGANIZATION**POSTAL ADDRESS:**

Oracle India Pvt Ltd.
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Varthur Hobli,
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DETAILS OF THE EXTERNAL GUIDE

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DATE OF COMMENCEMENT OF PROJECT

4th January , 2017

PROJECT DURATION

6 Months



Oracle India Pvt. Ltd
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Oracle Technology Park
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Bangalore - 560 029, India
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CIN: U74899DL1993PTC051764

Private & Confidential

Ref: Oracle India/Project Trainee/RGBU-Bangalore

Dated : December 2, 2016

Hemasai Aishwarya V

Dear Hemasai

It is our pleasure to offer you an internship to work on a project with Oracle (the Company) & its group Companies.

Appointment

Your project location would be **Bangalore**

The duration of your internship will be from January 4, 2017 to June 30, 2017 during which you will work under the guidance of your Mentor. The start date of your internship will be as agreed between the Company and you and any extension of the internship will be based on mutual agreement.

Remuneration

Under this internship, you will be paid a stipend of **INR 26,000/-p.m.** to cover all expenses.

Relocation

You are entitled to a relocation amount of **10,000 INR**. Relocation expenses incurred by you can be reimbursed as against your travel expenses to Bangalore from the city of your college and return. Oracle reimburses you the 2nd AC train ticket fare against submission of original tickets.

In addition you are also eligible for a reimbursement of **15,000 INR** as against the Company provided boarding and lodging facility either at the Company's transit flat, or at a hotel of the Company's choice, for a maximum period of 30 days.

We are aware that as a part of your education curriculum you have to work on a project report and submit it to your college. We wish to inform you that the projects done at Oracle would be sole property of the company. Consequently, all rights to such project will remain solely with Oracle. You will be required to prepare a project report; a copy of which will be retained by us for our records and the other copy can be submitted to your college.

This formal agreement is subjected to the acceptance of the enclosed guidelines which are applicable during your project period.

Yours Sincerely,

For and on behalf of Oracle India Private Limited, IDC

Srihari Beldona
Vice President - Human Resources, India



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GUIDELINES FOR STUDENT TRAINEES

- Our normal working hours are 9.30a.m.to 6.00p.m., with a 30 minutes lunch break, Monday through Friday. However due to business exigency you may be required to work at different timings as prescribed by the Guide/Mentor from time to time.
- You will have to sign our standard 'Confidential Non-Disclosure Agreement'.
- Access card for entry into our office will be given for the duration of the project after which, you are expected to return the Access card.
- Any project carried out at our company will be our property and that you will not be allowed to keep with you in any format or mode & any part thereof. All rights to such project will remain solely with Oracle.
- You shall be required to prepare a project report and a copy of the report will be retained by us.
- If the project requires generation of source code, the same shall not be included in the project report, nor can you remove a copy of the source code from the office in any format or mode.
- We would nominate an internal guide/mentor, during the period of the project.
- Please note that by working on this project with Oracle you shall neither acquire the status of an employee nor a right to claim employment with Oracle.

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1. INTRODUCTION

1.1 GENERAL INTRODUCTION TO THE TOPIC

The Clearance Optimization Engine (COE) provides the What If RMI interface that Item Planning Configured for COE can access using the RPAS special expression. This allows the IP application to produce in-season price recommendations and forecasts that account for planned promotions and future markdowns in the product life cycle. The forecast includes a sales plan and an optimal price plan.

COE produces its recommendations during the weekly model run. The results of the model run are stored in the database. These results can be extracted using the sendback files. They are then available for use by IP.

Users have the ability to perform real-time What-If scenarios from within Item Planning and alter plans in order to see the results of those changes. The changes include planning a markdown, changing future prices, changing an order, changing the exit date, changing the salvage value, and changing the sell-through target.

1.2 ORGANIZATION

Oracle offers the industry's most complete and integrated suite of software applications for insight-driven retailing. Only Oracle provides all the key components like database, middleware, and applications to transform the retail business.

Oracle Retail is the result of Oracle's strategic acquisition of best-of-breed applications, as well as the realization of its long-term vision for the retail sector. These applications provide retailers in key vertical segments including fashion, grocery and hardliners with more insight, further integration, and greater value to drive customer relationships.

The future of retailing requires that business adapts to changing consumer needs and use intelligence to drive repeat shoppers at each channel. With Oracle Retail, retailers can keep pace with their customers and transform the way business is done. Only Oracle allows creating a

unified view of the information that delivers economic value to the whole business, from in-store operations to corporate strategy to supply chain and logistical management. Oracle does this by providing accurate, actionable information, fully integrated between store, merchandising, and financial systems. With the newest release of Oracle Retail, Oracle continues to transform the economics of retail by providing innovative leadership in technology and delivering measurable results for retailers of all sizes. Oracle Retail provides a user friendly application environment so that the customers are been provided with an easy working atmosphere.

1.3 AREA OF COMPUTER SCIENCE

Software Development:

The existing version of COE will be upgraded.

1.4 HARDWARE AND SOFTWARE REQUIREMENTS

HARDWARE SPECIFICATIONS:

- ☐Processor: Intel i5.
- ☐RAM volume: 8GB.
- ☐Hard Drive Volume: 500 GB.
- ☐

SOFTWARE REQUIREMENTS:

- Operating System: OBI Windows 7.
- Browser : Microsoft Internet Explorer 9.0 onwards

Oracle JavaScript Extension Toolkit (JET) :

Empowers developers by providing a modular open source toolkit based on modern JavaScript, CSS3 and HTML5 design and development principles.

- **Apache Ant :**

It is a Java based build tool from Apache Software Foundation. Apache Ant's build files are written in XML and they take advantage of being open standard, portable and easy to understand.

- **Oracle WebLogic Server 12c R2 :**

It is the industry's best application server for building and deploying enterprise Java EE applications with support for new features for lowering cost of operations, improving performance, enhancing scalability and supporting the Oracle Applications portfolio.

- **Lightweight User Interface (UI) Extensions (LUX):**

It is a collection of UI patterns, components, utilities, templates, and tools for building client-side applications. LUX relies on HTML, CSS, JavaScript, and WAI-ARIA.

2. NEED FOR THE PROJECT

COE 14.0.4 was supported on Oracle WebLogic Server 11g Release 1 (10.3.6) but COE 14.0.4 was integrated tested with IP-COE 16.0 which is on Oracle WebLogic Server 12c (12.2.1). Customer using planning 16.0 release and COE will have to both Weblogic 12c (12.2.1) and WebLogic 11g (10.3.6), which is an overhead. As COE 14.0.4 was only to certify COE in IE 11 and no tech upgrades, so for COE 14.0.5 release Oracle WebLogic Server will be upgraded to 12c (12.2.1) from 11g (10.3.6).

3.OBJECTIVE

To upgrade Oracle WebLogic Server from 11g (10.3.6) to 12c (12.2.1).

4.METHODOLOGY

COE 14.0.4 will be deployed in Oracle WebLogic Server 12c (12.2.1) and then all the required changes will be done from the application side to support this infrastructure change. This project will follow an Agile development cycle, where QA team will be testing the application and reporting issues which will be fixed and provided in the next code drops.

5.PROJECT SCHEDULE

Below is the tentative schedule for COE 14.0.5.

➤ ***January 2017***

- Tech Stack confirmation

➤ ***February 2017***

- Environments upgrade SRs

➤ ***March 2017***

- 1st Code drop (tentative)

➤ ***April 2017***

- Documentation
- 2nd Code drop

➤ ***May 2017***

- 3rd/ Final Code drop
- Submission of report & evaluation

➤ ***June 2017***

- Software Deployment

