

Project Management Software Tracker Tool Built Using ADF

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Abstract— Oracle Application Development Framework is an end-to-end Java EE framework that simplifies application development by providing out-of-the-box infrastructure services and a visual and declarative development experience. This paper reviews project tool built using Framework, project details in excel sheet which is been used from years as a tracker by the employees, daily updating of details and during weekly meetings. It is manually being updated and it is time consuming process so building a project tool that satisfies all project requirements as a project tracker software tool which comes with Oracle Application Development Framework as a front end. This proposed work focuses on building a tool with user friendly applications. This paper also shows you how to build a rich internet application that interacts with a database. The framework regards Web application development as a special type of software development project. The use of the framework should result in more effective Web application development and enable developers to write programs using runtime environment.

Key words: Oracle ADF, Java EE, Oracle Database, Project Management Tool, JDeveloper.

I. INTRODUCTION

In this project, ADF is implemented on local area network, which is called as Oracle Database 10g. The Engineering Department is asked to develop modules to make internal works easy. The module now developed is Project Management Software Tool. As Project Management is most important task carried whenever there is a need to Implement new concepts or for important discussions or for any decision making. For managing project first and foremost requirement is to check with the requirements of project, in engineering Department mainly focus on the SLA's (Service Level Agreement) – Quality, On Time Delivery, Responsiveness, Meetings. Based on the SLA and other supporting data, we try to focus on the quality and time taken by the Project deliverables. The form is designed for updating the follow up actions, add deliverables, to view new meeting, view action item status. All the data entered in the forms are stored in the database; this is most helpful part of the project. All the projects carried and their details can be fetched by the company at any time. This can be helpful for improving the upcoming activities.[2]

Application development Framework is implemented on intranet, called Oracle ADF developed using Oracle JDeveloper which acts as server to serve client browsers, deployed on the local intranet. This includes modules for Admin Section, Project Section and Meeting. Project management is the module mainly focused in this paper. As it plays very important role for the success of any organization, it need to be carried out more systematically and effectively. There are many important events carried out

throughout the project, which are all minutely noticed and implemented in this work.[3]

Purpose of Implementing Project Management into engineering department is to automate the procedure of Projects. To create a Project Management Tool That Suits The Engineering centre which satisfies the basic requirements of the company using project tracker, Storing all the needed information about all Projects, Deliverables, Revisions, meetings, Tracking the follow-ups of the particular meeting, Searching and modifying the details. Manually typing project details will take lot of time, but with the help of form the just need to feed in the details. All the other details of project is automatically displayed, responsible persons, due dates, creation of project, start date, end date, priority all this are just need to be selected. This module will save lot of time and human energy. All the details of projects and meeting carried out are stored in database hence they can be referred whenever it is needed.[4][5]

II. PROBLEM STATEMENT

The project details carried manually accounts for 70% of data loss after long periods. In such points discussed in meetings are written on piece of paper and attached in a file. Action assigned, responsible person for action are just kept as a record in a file and are not properly updated and hence cannot accurately judge the employee's capacity. These records after long time may get missed or lost then even they want to review old meetings they cannot do that. This in turn effects the growth of organization. The person will check the record and inform. This is tedious job.

With the use of this project management module the main advantage is each and every information about the project is stored in database. Points discussed, raised by, action items, responsible person, due date for action, received date, start date, target date, completion date of project and their priority everything can be stored in database. Whenever there is need for any particular Project and meeting details it can be got through Database. In this module the page is designed based on Projects, Project Deliverables, Employees, and Project meetings.[1]

III. METHODOLOGY

This module is built using the following software techniques. The coding is done in software Oracle JDeveloper, scripting language as Java script. Oracle Database 10g is used for database storage. Other Software interfaces used are listed below:

- Operating System: Windows 7.
- Web Server : Web Logic Server 12c.
- Environment : Oracle JDeveloper.
- Front End :Oracle Application Development Framework.

- Scripting : JavaScript.
- Backend : Oracle Database.
 - Browser :Internet Explorer, Google Chrome.

IV. PROPOSED SYSTEM

The proposed system is to add module is called Project Management. The proposed system is to maintain all the project Details separately, and to allow the users to search the details, update the details and to display the details. The proposed system should maintain Project Details, Deliverables, Revisions, Meeting Details, Minutes of all Meetings and Actions or follow-ups details. The proposed system should allow users to search the details based on date of meeting held, status of follow-ups, employee who organized. And update the details. The purpose of the proposed system is to enhance the performance of project.[6][7]

V. SYSTEM DESIGN

A. Module Description

This module design started with designing Master Page at the beginning. Master page is the main page of the project which remains same throughout the form navigations. Using master page all forms required for this project is designed. The admin section has panel list which has links associated to it, the links referred to respective page flows.[9]

The page flows follows up like this – Lookups, Business units, Departments, Employees, Meetings, Projects, Deliverables, Revisions, Members.

PMS_LOOKUPS: IS 'All lookups required for PMS application';

PMS_LOOKUPS.LOOKUP_TYPE: IS 'Lookup Type like Technology, Product Line';

PMS_LOOKUPS.LOOKUP_CODE: IS 'Lookup Code like R12, Fusion R1'; PMS_LOOKUPS.MEANING: IS 'Meaning of the lookup';

PMS_LOOKUPS.DESCRPTION: IS 'Description of the lookup';

PMS_BUSINESS_UNITS: IS 'List of all business units';

PMS_EMPLOYEES: IS 'The Employees table holds all the employees in the given organization';

PMS_PROJECTS: IS 'The Projects table holds all the project in the given organization';

PMS_PROJECTS.PROJECT_NAME: IS 'Project name';
 PMS_PROJ_DELIVERABLES: IS 'The Deliverables table holds all the deliverables for a given project';
 PMS_PROJ_REVISIONS: IS 'The revisions table holds all the revisions for a given project';
 PMS_PROJ_MEMBERS: IS 'The Members table holds all the members for a given deliverables';

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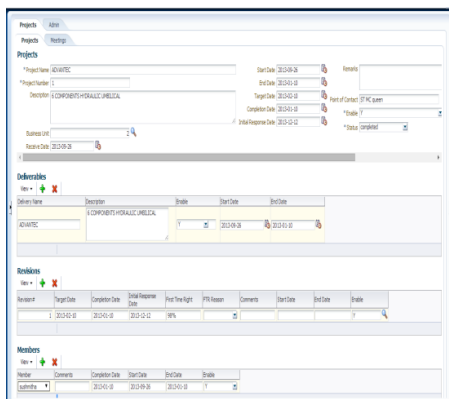


Fig. 1: Projects