

MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA245 – MINI PROJECT

PRO FORMA FOR THE APPROVAL OF THE THIRD SEMESTER MINI PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

1. Title of the Project : Javascript based Client for Cloud hosted Applications written in PL/SQL

2. Name of the Guide : Mr.Hydarali K

3. Number of the Student: MES20MCA-2005

4. Student Details

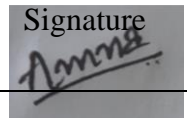
Name (in BLOCK LETTERS):

Roll Number

Signature

1. AMNA

05



Date:01/12/2021

Approval Status : Approved / Not Approved ____

Signature of
Committee Members

}

Comments of The Mini Project Guide

Dated

Signature Initial Submission

:

First Review :

Second Review :

Comments of The Project Coordinator

Dated

Signature Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of
HOD

JAVASCRIPT BASED CLIENT FOR CLOUD HOSTED APPLICATIONS WRITTEN IN PL/SQL

Amna

Introduction:

Itec Cloud architecture was designed to facilitate creating applications which can run from any pc in the cloud with 100% business code written in PL/SQL running on the database engine. It implements MVC architecture using a client written in Java , a middleware which is also written in Java along with PL/SQL packages. This project is to design a client using javascript which can run on any browser.

Objectives:

This project is to write a client in javascript to implement the same features existing in the java based client and to add additional features. This will be a universal client which can run in any browser running under any OS.

Problem Definition:

Persistence is a problem in web based applications. Once a connection is established, the connection is disconnected after getting all the required data from the server. In order to achieve this, a token has to be passed between the client and the server on every command packet.

In the current client, a new program can be called only after returning to the menu. The new client will allow running programs in parallel and to allow the user to switch between programs.

Basic Functionalities:

In the age of cloud computing , this project has high relevance. Writing an interactive application to run the browser is very cumbersome. Inorder to reduce the work required to develop an application,the command set provided by ItecCloud is very helpful. Since the existing client is a stand alone application, a user has to download the application.

Tools / Platform, Hardware and Software Requirements:

Javascript programs can be written using any editor. Testing can be done using any browser. Modern browsers have very good debugging facilities. Since javascript is not a typed language, side effects of using dynamic variables exists. However , the debugging facility is very powerful and hence the side effects can be easily detected.