

SRS DOCUMENT ON UNIVERSITY MANAGEMENT SYSTEM

FROM:-

**NAME : GURUCHARAN RAO
SECTION : K18TG
REG.NO : 11804634
ROLL NO : 04
COLLEGE : LPU**

I. INTRODUCTION

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Purpose:-

The main objective of this document is to illustrate the requirements of the project University Management System .This document describes the FUNCTIONAL AND NON FUNCTIONAL REQUIREMENTS.

Provides the visibility in the design and provide the information needed for software support .The document gives the detailed description of both functional and non-functional requirements proposed by the client.

## **A. Document Conventions, Definitions:-**

The following are the list of conventions and acronyms used in this documentation.

- Administrator: - A login id representing a user with user administration privileges to the software.
- User: - A general login id assigned to users.

- Client: - Intended users for the software.
- SQL:-Structured Query Language used to retrieve or store the information in the database.
- ASP''- Active Server Pages: A Webpage formatted on the server and delivered to the browser
- User Interface Layer: - The section of the assignment referring to what the user interacts with directly.
- Application layer: - This section referring the the Web Server where all computations are completed.

## **Product Feature:-**

There are three types of different user who will be using this product

So, every one ha the different interfaces to use the interface..

- University chancellor. who will be acting as the administrator

- Faculty Members who are second level users accessing UMS.
- Students of the university who will be accessing the UMS online

The features that are available to the administrator are:

- Can create or delete the account.
- Can view the accounts.
- Can change the password.
- Can hide any kind of feature from both users.

**The features that are available to the faculty are:**

- ✓ Can mark the attendance of the students online.
- ✓ Can create the continuous assessments for the students.
- ✓ Can view the online attendance off the students.
- ✓ Can submit the questions papers online.
- ✓ Can upload marks, assignments, reading material for the students.

The features that are available to the Students are:

- Can view the different types of the reading material and assignments are available in their account.
- Can pay their fees by online mode.

- Can view their marks as well as attendance.

User classes and characteristics:-

There are various by various users for kind of user for the product .Usually web products are visited by various user for different reasons visited different reasons.

The user includes:-

- Chancellor who will be acting as the controller and he will have all the privileges of administrator.
- Faculty members who will be using the above features by accessing the UMS online.

## **Typical non-functional requirements Include:**

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- **Usability.**
- How difficult will it be for users to use this product? Example: *People with no understanding of local language must be able to use the product.*

- **Security.**

- What authorization levels does a system provide? How protected is a system from data breaches.
- **Reliability.**
- How prone is a system to failure?
Example: *The database update process must roll back all related updates when any update fails.*
- **Performance.**
- How fast does a system respond to user interactions? Example: The front-page load time must be no more than 2 seconds for users that access the website using an LTE mobile connection.
- **Availability**
- . What period of time is the system available to use its full functions?
Example: New module deployment mustn't impact front page, product

pages, and check out pages availability and mustn't take longer than one hour.

- Scalability.
- How can system grow without negative effect on its performance.
Example: *The website attendancy limit must be scalable enough to support 200,000 users at a time.*

- Capacity Requirements -
- how many times do they operate the process per day?

REDUNDANCY:

Informally, a software system is redundant when it performs the same functionality through the execution of different elements.

SUPPORTIBILITY:

Supportability is the degree to which system design characteristics and planned logistics resources meet system requirements.

ACCURACY REQUIREMENTS:

Being 100% accurate may involve lots of checking and double checking (to ensure that the data is correct)

FUNCTIONAL REQUIREMENTS:

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#### **User Login :**

User logs into system using existing profile.

Profile username and password is input requirements.

#### **Content Sharing (Upload Files) :**

Purpose A user wants to share some data (pdf).The file to be shared.

#### **Discussion Thread :**



A user wants to start a discussion on a particular topic

## **Content Sharing (Download Files) :**

User Any user of the academic portal.

## **Search Result :**

Input Data The keyword.

## **Blog Thread:**

Title and body of the Blog and the forum in which the user wants to have the blog.

## **Notifications :**

User enables the notifications from settings.

## **Survey:**

Title and body of the survey and the forum in which the user wants to have the blog.

## **FAQ, Time Table and Conference/Seminar Info :**

The keyword.

### **Central mail system:**

Accessed from ums navigation

### **Examination system:**

Accessed from examination keyword status.

### **Security and welfare;**

Input data keyword.

### **Know your authority:**

From important links we can accesss it.

### **Learning Management System:**

To download and upload the assignments.

### **Change password:**

From keyword change password in navigation bar.

## **Placement services:**

From keyword.

## **My profile:**

From input data keyword.

## **Relationship Management System:**

To file any complain against the faculty or hostel services or enquiry.

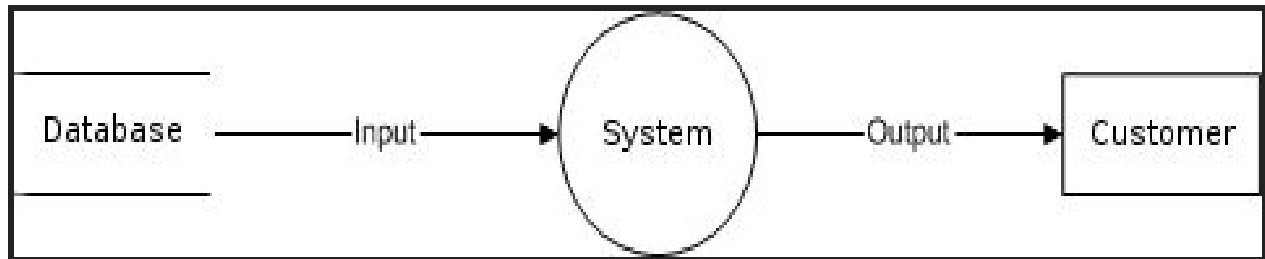
## **Security and welfare:**

From the top of navigation bar.

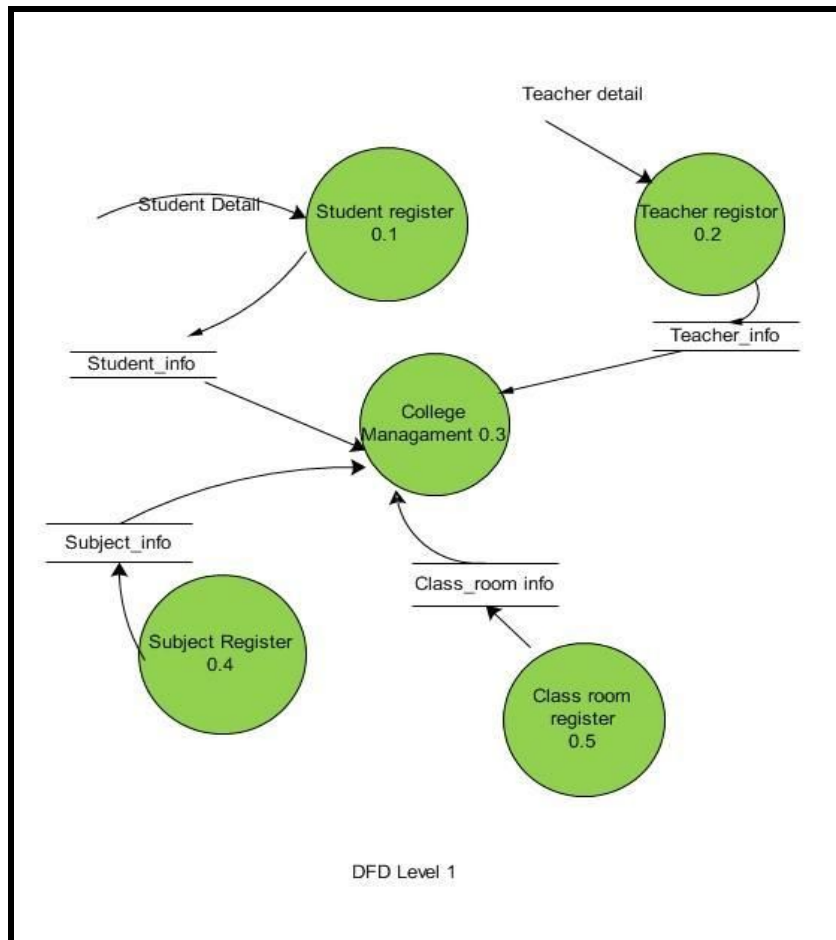
## **Finance management system:**

For the purpose of accesing the details on fee structure and pending fee.ACCESSED THROUGH KEYWORD.

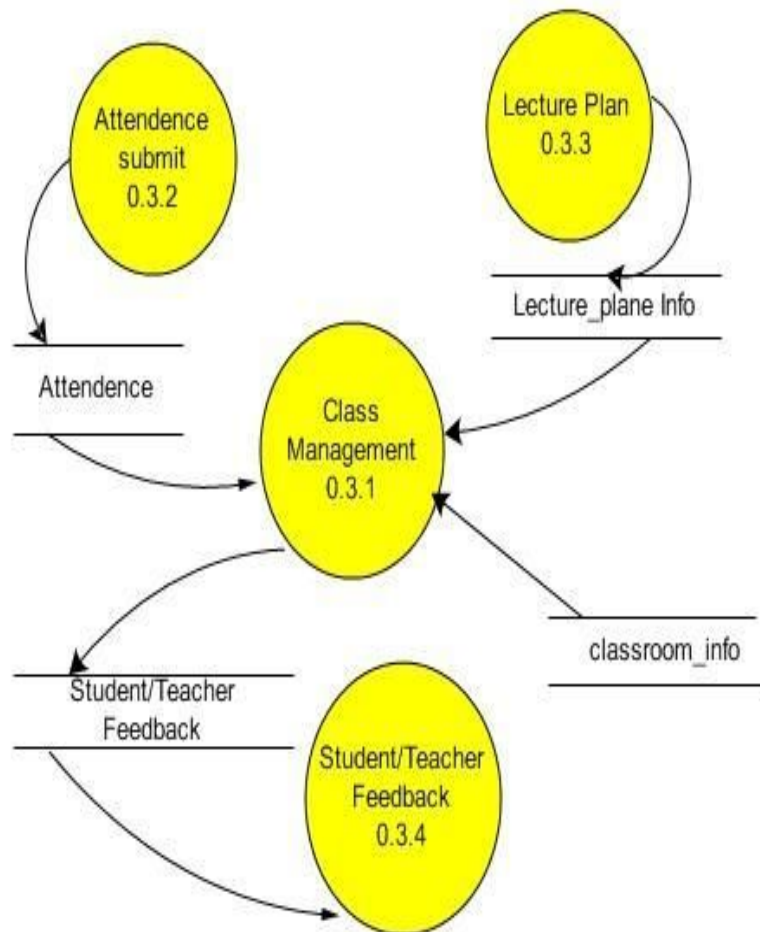
## **Data Flow Diagram :**



## DFD LEVEL 1:

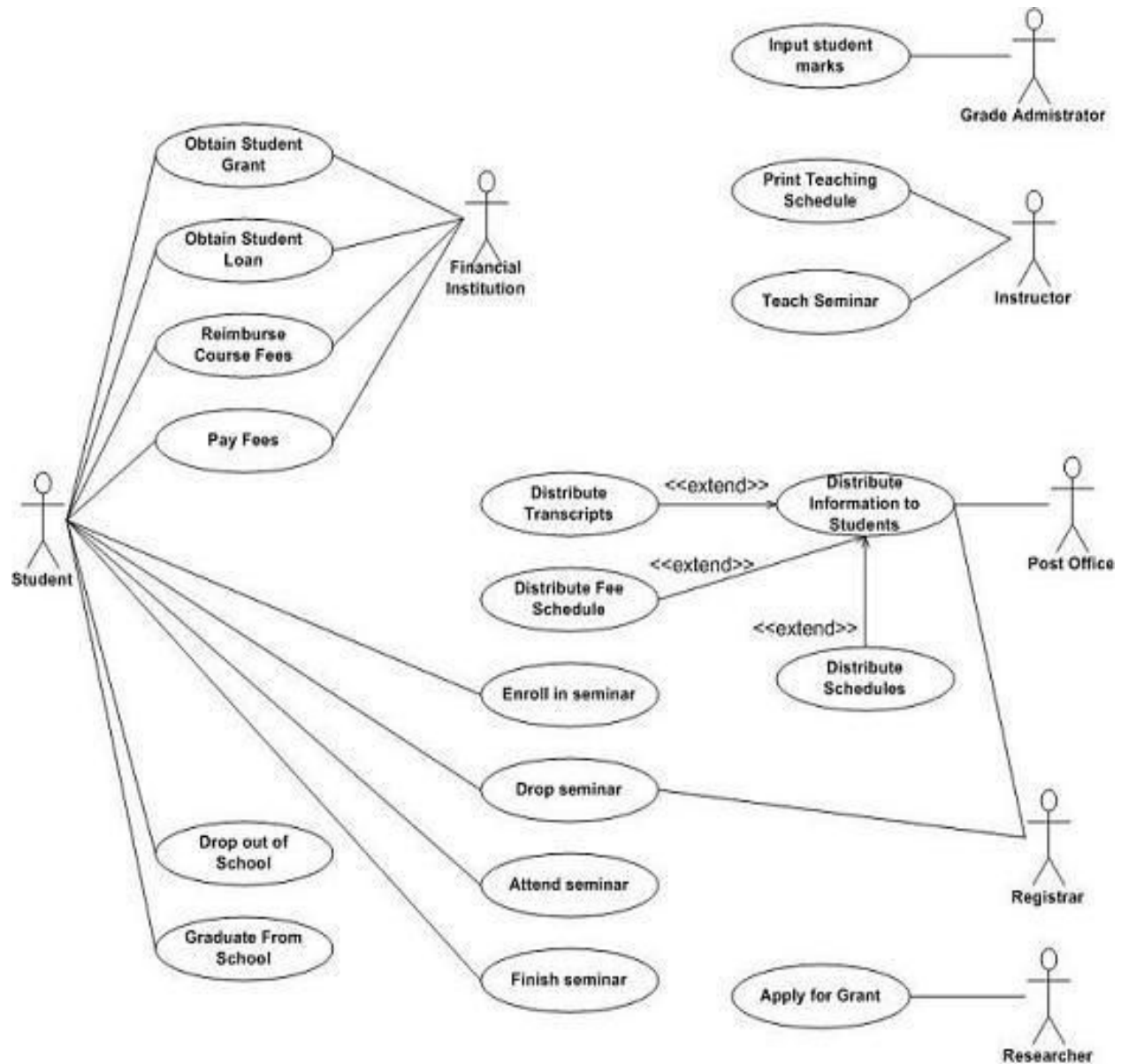


## DFD LEVEL 2:



DFD Level 2

# USE CASE DIAGRAM:





# Test Cases:

**Test Case :1**

**System:** university management system

**Designed by:** self-test

**Executed by:** self-test

**04/11/2019**

**Short Description:** Test the Login service

**Test Case Name:** Login

**Subsystem:** Login

**Design Date:** 04/11/2019

**Execution date:**

**Pre- Conditions:**

The user should be already signup in the website.

| STEPS | Action                    | Expected System Response                                                          | Status | Comment |
|-------|---------------------------|-----------------------------------------------------------------------------------|--------|---------|
| 1     | Click the 'LOG IN' button | The system displays a message asking the user to enter the User name and password | Pass   |         |



|   |                                                                            |                                                             |      |                                                                                         |
|---|----------------------------------------------------------------------------|-------------------------------------------------------------|------|-----------------------------------------------------------------------------------------|
| 2 | Enter<br>Password: rockguru<br>Enter<br>username: 11804634                 | The system displays a message of successful Login.          | Pass | Check the databases                                                                     |
| 3 | Check post-condition 1                                                     |                                                             |      |                                                                                         |
| 4 | Repeat 1 and<br>Enter<br>Password: rockguru<br>Enter<br>username: rockguru | The system will show a message Invalid Password and user id | fail | Because the user id and the password related the user id is not present in the database |
| 5 | Check post-condition 2                                                     |                                                             |      |                                                                                         |

Post Conditions:

- 1.Go to the homepage
- 2.Go to the log in page

**Test to pass:** - User should enter a registered email id and password should match with the saved password.

**Test to Fail:** - If user will enter a not registered email id or password will be incorrect

|                                                                    |                                            |
|--------------------------------------------------------------------|--------------------------------------------|
| <b>Test Case :2</b>                                                | <b>Test Case Name: learning management</b> |
| <b>System:university management</b>                                | <b>Subsystem: assignment</b>               |
| <b>Designed by: self-test</b>                                      | <b>Design Date: 04/11/2019</b>             |
| <b>Executed by: self-test</b>                                      | <b>Execution date: 04/11/2019</b>          |
| <b>Short Description: LEARNING MANAGEMENT(assignment download)</b> |                                            |

| Pre-Conditions:<br>The student should be already login in the website and in home. |                                   |                                                    |        |                           |
|------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------|--------|---------------------------|
| STEPS                                                                              | Action                            | Expected System Response                           | Status | Comment                   |
| 1                                                                                  | Click on the UMS NAVIGATION.      | The system displays the option list                | Pass   | Check the databases       |
| 2                                                                                  | Select the required options.(LMS) | The system provides several notes.                 | Pass   | Many options will appear  |
| 3                                                                                  | Enter on assignments.             | The system takes data from the user.               | Pass   | Check the databases       |
| 4                                                                                  | Click the assignment download.    | The system provides the notes of required subject. | pass   | takes place               |
| 5                                                                                  | Repeat 1                          | The system does not show the details               | Fail   | If there is any problems. |

|                                                                     |
|---------------------------------------------------------------------|
| Post Conditions:<br>1.Go to the homepage<br>2.Go to the log in page |
|---------------------------------------------------------------------|

**Test to pass:** - User must login and enter the enter the details.

**Test to fail:** - If user does not enter the details the system does not respond.

|                                                  |                                     |
|--------------------------------------------------|-------------------------------------|
| <b>Test Case :3</b>                              | <b>Test Case Name: RELATIONSHIP</b> |
| <b>MANAGEMENT</b>                                |                                     |
| <b>System:university management</b>              | <b>Subsystem: RMS</b>               |
| <b>Designed by: self-test</b>                    | <b>Design Date: 04/11/2019</b>      |
| <b>Executed by: self-test</b>                    | <b>Execution date: 04/11/2019</b>   |
| <b>Short Description:RELATIONSHIP MANAGEMENT</b> |                                     |

| Pre-Conditions:<br>The student should be already login in the website and in home. |                                   |                                        |        |                                        |
|------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|--------|----------------------------------------|
| STEPS                                                                              | Action                            | Expected System Response               | Status | Comment                                |
| 1                                                                                  | Click on the UMS NAVIGATION.      | The system displays the option list    | Pass   | Check the databases                    |
| 2                                                                                  | Select the required options.(RMS) | The system provides several notes.     | Pass   | Options appear in navigation           |
| 3                                                                                  | Enter on LOG REQUEST/VIEW STATUS. | The system takes data from the user.   | Pass   | Check the databases                    |
| 4                                                                                  | Click on the I AGREE button       | The system takes you to the next page. | pass   | Verifies to take to next page.         |
| 5                                                                                  | Repeat 1                          | The system does not show the details   | Fail   | If the user failed to press on I AGREE |

|                                          |
|------------------------------------------|
| Post Conditions:<br>1.Go to the homepage |
|------------------------------------------|

2.Go to the log in page

**Test to pass:** - User must login and enter the details.

**Test to fail:** - If user does not enter the details the system does not respond.

**Test Case :4**

**Test Case Name: Fee payment**

**System: UNIVERSITY MANAGEMENT SYSTEM Subsystem: online payment**

**Designed by: self-test**

**Design Date: 04/11/2019**

**Executed by: self-test**

**Execution date: 04/11/2019**

**Short Description: FEE TRANSACTION**

Pre-Conditions:

The student should be already login in the website and in home.

| STEPS | Action                   | Expected System Response             | Status | Comment                                                 |
|-------|--------------------------|--------------------------------------|--------|---------------------------------------------------------|
| 1     | Click on the Payment     | The system displays the option list  | Pass   | Check the databases                                     |
| 2     | Select the debit cards   | The system provides several notes    | Pass   | Check the databases                                     |
| 3     | Enter debit card details | The system takes data from the user  | Pass   | Check the databases                                     |
| 4     | Click the next           | The system provides the digital bill | pass   | Transaction takes place                                 |
| 5     | Repeat 1                 | The system does not show the details | Fail   | Because the user did not select the proper credentials. |

Post Conditions:

1. Click on “complete payment”.

**Test to pass:** - User must login and enter the details.

**Test to fail:** - If user does not enter the details the system does not respond.

**Test Case :5**

**Test Case Name: EXAMINATION SYSTEM**

**System:university management**

**Subsystem: EXAM REGISTER**

**Designed by: self-test**

**Design Date: 03/11/2019**

**Executed by: self-test**

**Execution date: 03/11/2019**

**Short Description:EXAMINATION REGISTRATION.**

Pre-Conditions:

The student should be already login in the website and in home.

| STEPS | Action                                           | Expected System Response               | Status | Comment                                |
|-------|--------------------------------------------------|----------------------------------------|--------|----------------------------------------|
| 1     | Click on the UMS NAVIGATION.                     | The system displays the option list    | Pass   | Check the databases                    |
| 2     | Select the required options.(EXAMINATION SYSTEM) | The system provides several notes.     | Pass   | Options appear in navigation           |
| 3     | Enter on EXAM REGISTRATION.                      | The system takes data from the user.   | Pass   | Check the databases                    |
| 4     | Click on the I AGREE button.                     | The system takes you to the next page. | pass   | Verifies to take to next page.         |
| 5     | Repeat 1                                         | The system does not show the details   | Fail   | If the user failed to press on I AGREE |

Post Conditions:

- 1.Go to the homepage
- 2.Go to the log in page

**Test to pass:** - User must login and enter the details.

**Test to fail:** - If user does not enter the details the system does not respond.

## **References:**

1.<http://www.UMS.LPU.in>

2.<http://www.Scribd.com>

3.<http://www.en.wikipedia.org/wiki/SRS.html>

THANKYOU