

CHAPTER 1

1. INTRODUCTION

1.1 Problem statement

The problem of the system is that there was no web applications available for existing system, and that existing system are only accessing the database source and doesn't provide access for external data source Excel book. And another problem is that it was not more interactive with user. In the existing system, the report is built only using these excel and it was difficult for the admin to build a report based on a set of queries. And there was no direct connection to build a report from excel and database. These problems lead to lot of human errors and to overcome these problems, this web application is developed from scratch.

CHAPTER 2

SYSTEM ANALYSIS

2.1 Existing System

In existing system only database can be accessed. The existing report system will allow data to come from tables, views, or stored procedures within the report builder. It doesn't provide access for external data source excel book.

2.2 Proposed System

To overcome the existing system, Report Builder Application can provide the functionalities to insert a new student record, store all the student records in the user interface form and provide the data reports using Excel inputs and reports can be retrieved in various formats such as doc file, pdf file and Excel file. By this Application all the information stored in the database will be in a uniform manner.

2.3 System Architecture

System Architecture of the application starts with the super admin and staff who interacts with the server through the frontend. This server connects with the database.

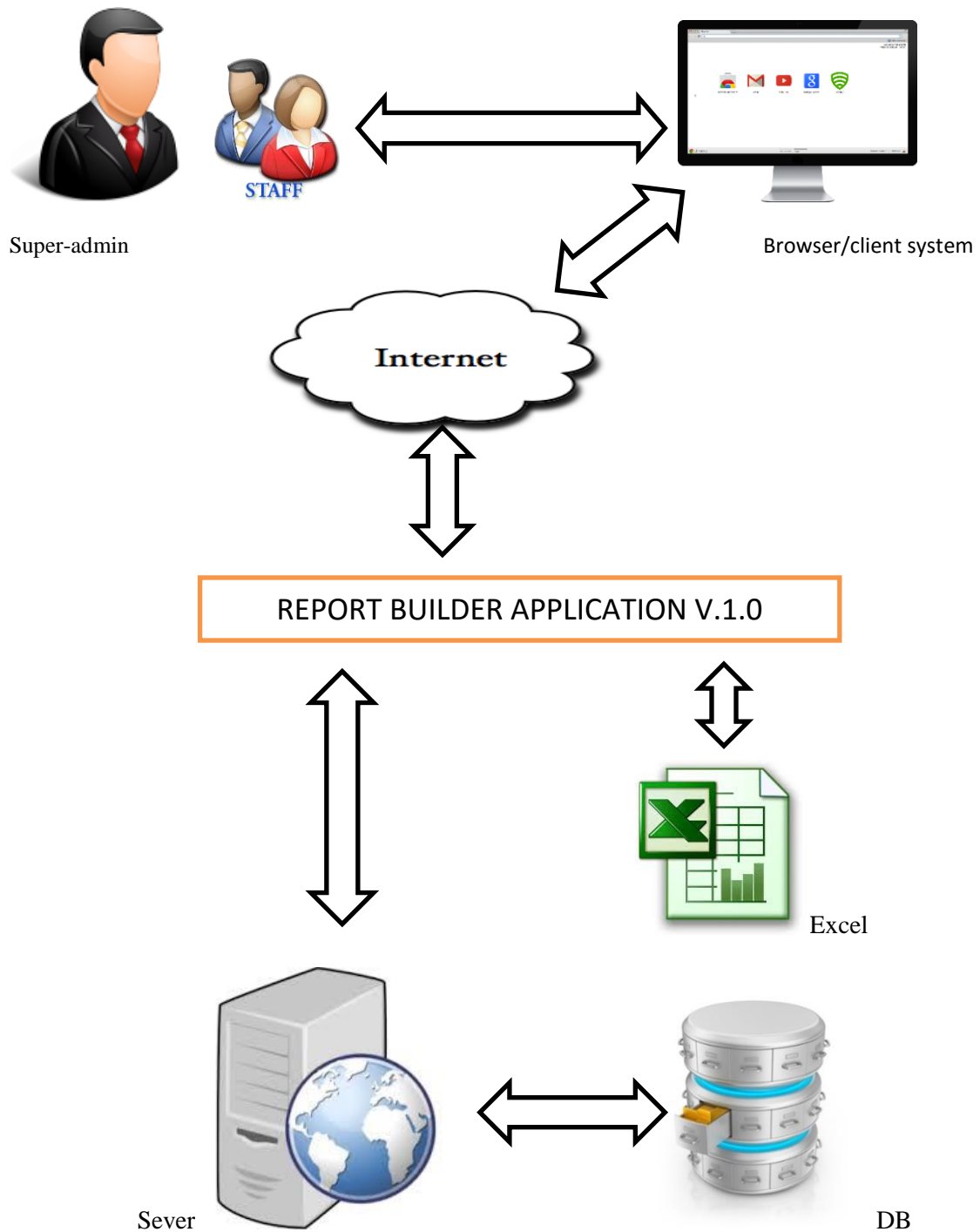


FIG 2.3.1: System Architecture

2.4 Subsystem Description

Subsystem description describes how the components is further divided into subcomponents and relationships and interaction between the subcomponents.

Subsystem of this tool are described below

- Manage students
- Reports
- Load Excel file
- Manage staff

1. MANAGE STUDENTS:

In this module super admin has full privilege of adding new student to all the departments, modifying student information, further updates or deletion can be done only by the super admin. Staffs can also view the student record of their respective department and based on the privileging rights given by the super admin to the staff. Staff can modify or delete the student record from the database.

2. REPORTS:

Reports are customized document. There are predefined categories based on that the information needed, the data's are retrieved from the database and that can be generated as a report and also based on the user requirement. The categories can be customized and the data are retrieved as per the requirement from the database and the reports are generated the different types of charts are generated from the report and the user can select type of the chart according to their wish. The generated report can be downloaded in the various formats like pdf, excel and csv. Super admin can able to view all the department records whereas staffs can view only their privileged departments. Super admin can able to generate the report from all the departments, staff can generate the report only from their department.

3. LOAD EXCEL FILE:

This module can be accessed by both super admin and staffs. Here reports are generated from the external excel file. Once the user login into the system can only able access this module. Even the data from the excel file can be customized as per the requirement and the report are generated based on the data required.

4. MANAGE STAFF:

This module fully controlled by super admin. To manage all the staff login process and giving access privilege is done super admin using in this module. Access privilege in the sense each staff may belong to one department there is no need of accessing other department process or information. So cut down those privilege super admin will give the access privilege to only the department they belong to. So the staff cannot access other department. This process is done by the super admin. Super admin may able to give access privilege to one or more department if there is need of accessing. Super admin can also change there or modify the access privilege whenever is a need.

2.5 Functional requirements

2.5.1 Data description

The data that have been used in this system are described over here.

2.5.1.1 Data objects

Data object that compile to system are:

DATA OBJECT FIELD

ADMISSION_NO
ADMISSION_DATE
ADMISSION_QUOTA

ADMISSION_DETAILS DESCRIPTION

Admission number
Date of admission
Admission quota

DATA OBJECT FIELD

ADMISSION_NO
STU_ROLLNO
STU_FIRSTNAME
STU_LASTNAME
STU_GENDER
STU_DOB
STU_RELIGION
STU_COMMUNITY
STU_MOTHER MAIDEN NAME
STU_MOTHER NAME
STU_FATHER NAME
STU_PARENT_INCOME
STU_NATIONALITY
STU_BLOOD_GROUP
STU_MOTHER_TONGUE
STU_LANGUAGE_KNOWN1
STU_LANGUAGE_KNOWN2

STUDENT PERSONAL DETAILS DESCRIPTION

Admission number for student
Student unique roll no
Student first name
Student last name
Student gender
Student date of birth
Student religion
Student community
Student mother maiden name
Student mother name
Student father name
Student parent's income
Student nationality
Student blood group
Student mother tongue
Student language known 1
Student language known 2

**DATA OBJECT
FIELD**

STU_ROLLNO
STU_EMAIL
STU_PARENT_EMAIL
STU_MOBILE
STU_PARENT_MOBILE
STU_ALTER_MOBILE
PRESENT_HOUSENO
PRESENT_STREET
PRESENT_AREA
PRESENT_CITY
PRESENT_DISTRICT
PRESENT_STATE
PRESENT_COUNTRY
PRESENT_PINCODE
PERMANENT_HOUSENO
PERMANENT_STREET
PERMANENT_AREA
PERMANENT_CITY
PERMANENT_DISTRICT
PERMANENT_STATE
PERMANENT_COUNTRY
PERMANENT_PINCODE

**STUDENT CONTACT DETAILS
DESCRIPTION**

Student unique roll no
Student personal email id
Student parent email id
Student personal mobile number
Student parents' mobile number
Student alternative mobile
Student present address house number
Student present address street
Student present address area or landmark
Student present address city
Student present address district
Student present address state
Student present address country
Student present address pin code
Student permanent address house no
Student permanent address street
Student permanent address area or landmark
Student permanent address city
Student permanent address district
Student permanent address state
Student permanent address country
Student permanent address pin code

**DATA OBJECT
FIELD**

STU_ROLLNO
STU_REGNO
STU_DEGREE
STU_COURSE
STU_BRANCH
STU_SECTION
STU_BATCH
STU_COURSE_TYPE
STU_JOIN_MODE

**STUDENT CURRENT COURSE
DETAILS
DESCRIPTION**

Student unique identity roll no
Student unique university register number
Student currently pursuing degree
Student currently pursuing course
Student currently pursuing branch
Student section
Student batch year
Student course type
Student join mode for regular or lateral entry

**DATA OBJECT
FIELD**

STU_ROLLNO
PREV_DEGREE
PREV_COURSE
PREV_BRANCH
YEAR_OF_PASSING
COURSE_TYPE
INSTITUTE NAME
BOARD OF EDUCATION/UNIVERSITY
NAME
CGPA/MARK OBTAINED
TOTAL CGPA/MARK
PERCENTAGE

**STUDENT PREVIOUS ACADEMIC
DETAILS
DESCRIPTION**

Student unique identity roll no
Student previous studied degree
Student previous studied course
Student previous studied branch
Year of passing previous degree
Previous course type
Previous institute name
Previous degree board of education
Previous degree cgpa or mark obtained
Total cgpa or mark for previous degree
Percentage of previous degree

**DATA OBJECT
FIELD**

REMARK_ID
STU_ROLLNO
REMARK_DATE
REMARK_STAFF
REMARK_REASON
MET_STAFF
DATE_OF_MET

**STUDENT BLACK MARK DETAILS
DESCRIPTION**

Remark unique id
Student unique roll no
Remark given date
Staff name who given remark for student
Remark reason
Student met staff yes or no
Remark student date of met to staff

**DATA OBJECT
FIELD**

DEGREE_ID
DEGREE_NAME

**DEGREE DETAILS
DESCRIPTION**

Degree unique id
Degree name

**DATA OBJECT
FIELD**

COURSE_ID
DEGREE_ID
COURSE_NAME

**COURSE DETAILS
DESCRIPTION**

Course unique id
Degree unique id
Course name

**DATA OBJECT
FIELD**

BRANCH_ID
COURSE_ID
BRANCH_NAME

**BRANCH DETAILS
DESCRIPTION**

Branch unique id
Course unique id
Branch name

**DATA OBJECT
FIELD**

STAFF_ID
STAFF_NAME
STAFF_GENDER
STAFF_DOB
PRESENT ADDRESS
PERMANAENT ADDRESS
STAFF_EMAIL
STAFF_MOBILE
STAFF_DESIGNATION
STAFF_DEPT
STAFF_DOJ
STAFF_QUALIFICATION

**STAFF DETAILS
DESCRIPTION**

Staff unique identity number
Staff name
Staff gender
Staff date of birth
Present address for staff
Permanent address for staff
Staff unique personal email
Staff contact mobile number
Staff designation HOD or staffs
Staff department
Date of joins in staff
Qualification for staff

**DATA OBJECT
FIELD**

STAFF_ID
USERNAME
PASSWORD

**LOGIN_INFO DETAILS
DESCRIPTION**

Staff unique identity id
Staff username for login
Staff password for login

**DATA OBJECT
FIELD**

ID
STAFF_ID
PERMISSION
MODULE

**ACCESS RIGHTS_INFO DETAILS
DESCRIPTION**

Unique permission id
Unique identity id for staff
Access permissions for staff
Access permission belongs to modules

2.6 NON – FUNCTIONAL REQUIREMENTS

Non-functional requirements define the needs in terms of performance, reliability, security, maintainability, and portability

Performance requirements

Performance requirements define acceptable response times for the system functionality, this system can transfer register information from application to database in 5 seconds.

Reliability

This application can be used for any number of systems and provide good efficiency.

Security

This system provides high security by authorizing staffs using their user id

Maintainability

This application is being developed in PHP. So, it is easy to maintain.

Portability

This software is easily transferred to another environment, including install ability.

2.6.1 Hardware Specification

Client side (minimum required)

- Processor : Pentium 4
- RAM : 1 GB
- Disk space : 40 GB

Server side (minimum required)

- Processor : Intel Xeon
- RAM : 4 GB
- Disk space : 100 GB

2.6.2 Software Specification

Client side (minimum required)

- Front End : HTML
- Back End : MYSQL
- Scripting Language : JavaScript and jQuery
- Framework : BOOTSTRAP
- Operating System : Windows XP SP3

Server side (minimum required)

- Business Logic : PHP
- Server : Apache Tomcat 6.0
- Operating System : LINUX

CHAPTER 3

SYSTEM DESIGN

3.1 DATA MODEL

3.1.1 E-R DIAGRAM

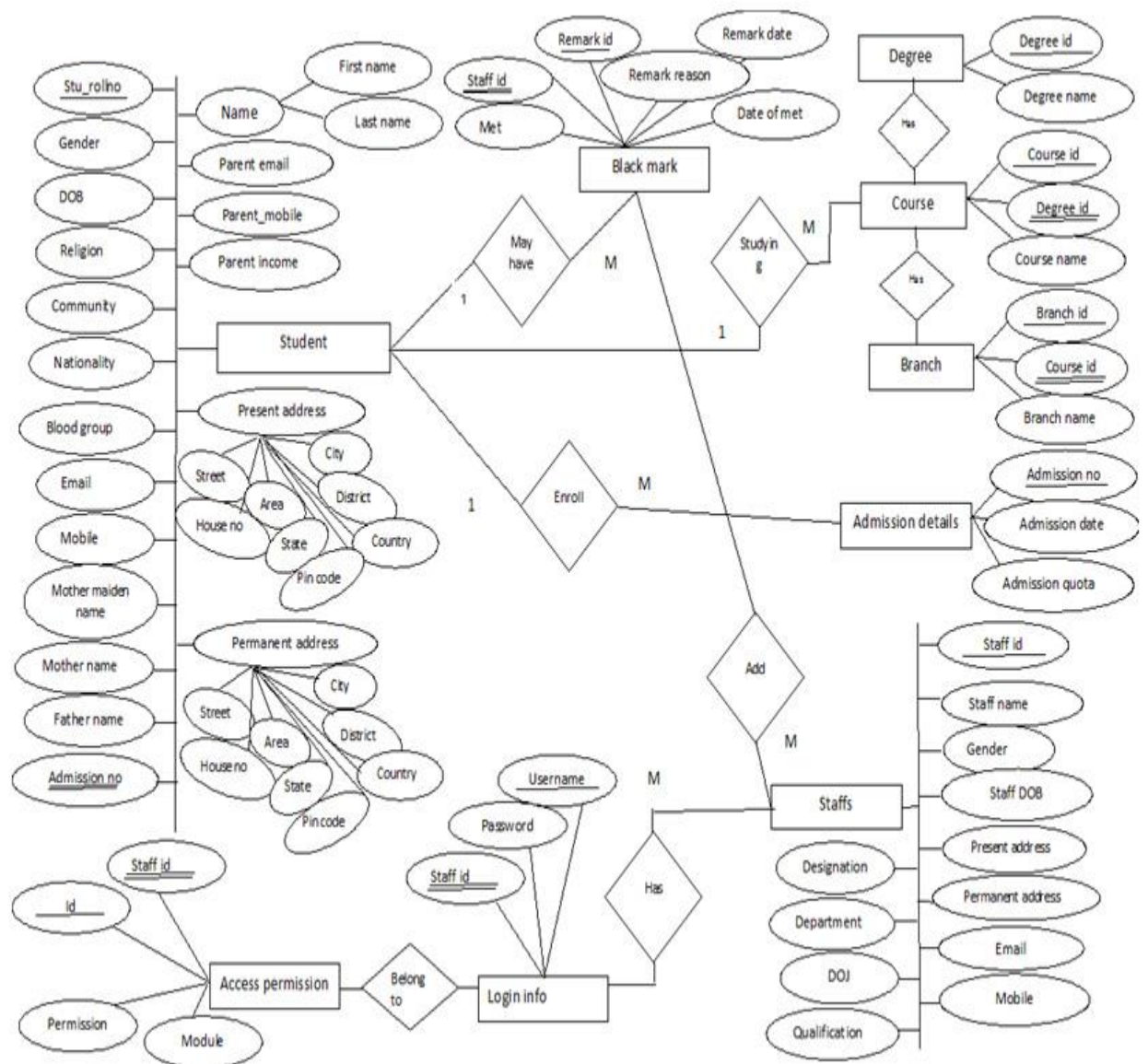


Fig 3.1.1 E-R Diagram

3.1.2 TABLE DESIGN:

3.1.2.1 ADMISSION_DETAILS:

FIELDS	DATATYPE	CONSTRAINTS
admission_no	INTEGER	PRIMARY KEY
admission_date	DATE	NOTNULL
admission_quota	VARCHAR(25)	NOTNULL

3.1.2.2 STUDENT_PERSONAL_DETAILS:

FIELDS	DATATYPE	CONSTRAINT
Admission_no	INTEGER	FOREIGN KEY (admission_details)
stu_rollno	INTEGER(11)	PRIMARY KEY
stu_firstname	VARCHAR(40)	NOTNULL
stu_lastname	VARCHAR(40)	NOTNULL
stu_gender	VARCHAR(8)	NOTNULL
stu_dob	DATE	NOTNULL
stu_religion	VARCHAR(40)	NOTNULL
stu_community	VARCHAR(40)	NOTNULL
stu_mother's_maiden_name	VARCHAR(40)	NULL
stu_mother's_name	VARCHAR(40)	NOTNULL
stu_father's_name	VARCHAR(40)	NOTNULL
stu_parent_income	DOUBLE (10,2)	NOTNULL
stu_nationality	VARCHAR(40)	NOTNULL
stu_blood_group	VARCHAR(5)	NOTNULL
stu_mother_tongue	VARCHAR(40)	NOTNULL
stu_language_known1	VARCHAR(40)	NULL
stu_language_known2	VARCHAR(40)	NULL

3.1.2.3 STUDENT_CONTACT_DETAILS:

FIELDS	DATATYPE	CONSTRAINT
stu_rollno	INTEGER	FOREIGN KEY(stu_personal_details) PRIMARY KEY
stu_email	VARCHAR(50)	UNIQUE
stu_parent_email	VARCHAR(50)	NULL
stu_mobile	VARCHAR(50)	UNIQUE
stu_alter_mobile	VARCHAR(50)	NOTNULL
stu_parents_mobile	VARCHAR(50)	NOTNULL
stu_pre_houseno	VARCHAR (15)	NOTNULL
stu_pre_street	VARCHAR (50)	NOTNULL
stu_pre_area	VARCHAR(100)	NOTNULL
stu_pre_city	VARCHAR(100)	NOTNULL
stu_pre_district	VARCHAR(100)	NOTNULL
stu_pre_state	VARCHAR(100)	NOTNULL
stu_pre_country	VARCHAR(100)	NOTNULL
stu_pre_pincode	MEDIUMINT(9)	NOTNULL
stu_per_houseno	VARCHAR (15)	NOTNULL
Stu_per_street	VARCHAR(50)	NOTNULL
stu_per_area	VARCHAR(100)	NOTNULL
stu_per_city	VARCHAR(100)	NOTNULL
stu_per_district	VARCHAR(100)	NOTNULL
stu_per_state	VARCHAR(100)	NOTNULL
stu_per_country	VARCHAR(100)	NOTNULL
stu_per_pincode	MEDIUMINT(9)	NOTNULL

3.1.2.4 STUDENT_COURSE_DETAILS:

FIELDS	DATATYPE	CONSTRAINTS
stu_rollno	INTEGER	FOREIGNKEY(stu_personal_details) PRIMARY KEY
stu_univ_regno	BIGINT	UNIQUE
stu_degree	INTEGER	NOTNULL
stu_course	INTEGER	NOTNULL
stu_branch	INTEGER	NOTNULL
stu_section	VARCHAR(4)	NULL
stu_batch	VARCHAR(12)	NOTNULL
stu_course_type	VARCHAR(30)	NOTNULL
stu_joined	VARCHAR(30)	NOTNULL

3.1.2.5 STUDENT PREVIOUS ACADEMIC DETAILS:

FIELD	DATATYPE	CONSTRAINTS
id	INTEGER	PRIMARY KEY
Stu_rollno	INTEGER	FOREIGN KEY (stu_personal_details)
prev_degree	VARCHAR(20)	NOTNULL
prev_course	VARCHAR(50)	NOTNULL
prev_branch	VARCHAR(50)	NOTNULL
yr_of_passing	YEAR	NOTNULL
course_type	VARCHAR(30)	NOTNULL
institute_name	VARCHAR(150)	NOTNULL
board_of education/university name	VARCHAR(100)	NOTNULL
cgpa/mark obtained	FLOAT	NOTNULL
total mark/cgpa	INTEGER	NOTNULL
percentage	FLOAT	NOTNULL

3.1.2.6 BLACK_MARK DETAILS:

FIELD	DATATYPE	CONSTRAINTS
remark_id	INTEGER	PRIMARY KEY
stu_rollno	INTEGER	FOREGIN KEY (stu_personal_details)
remark_date	DATE	NOTNULL
remark_staff	INTEGER	FOREIGN KEY(staff_details)
remark_reason	TEXT	NOTNULL
met_staff	VARCHAR(5)	NOTNULL
date_of_met	DATE	NOTNULL

3.1.2.7 DEGREE:

FIELDS	DATATYPE	CONSTRAINTS
degree_id	SMALLINT	PRIMARY KEY
degree_name	VARCHAR(200)	NOTNULL

3.1.2.8 COURSE:

FIELDS	DATATYPE	CONSTRAINTS
course_id	SMALLINT	PRIMARY KEY
degree_id	SMALLINT	FOREIGN KEY(degree)
course_name	VARCHAR(100)	NOTNULL
course_duration	SMALLINT	NOTNULL

3.1.2.9 BRANCH:

FIELD	DATATYPE	CONSTRAINTS
branch_id	SMALLINT	PRIMARY KEY
course_id	SMALLINT	FOREIGN KEY(courses)
branch_name	VARCHAR(50)	NOTNULL

3.1.2.10 STAFF_DETAILS:

FIELD	DATATYPE	CONSTRAINTS
Staff_id	INTEGER	PRIMARY KEY
Staff_name	VARCHAR(30)	NOTNULL
Staff_gender	VARCHAR(10)	NOTNULL
Staff_dob	DATE	NOTNULL
Staff_present_address	TEXT	NOTNULL
Staff_permanent_address	TEXT	NOTNULL
Staff_email	VARCHAR(50)	NOTNULL
Staff_mobile	VARCHAR(10)	NOTNULL
Staff_date_of_join	DATE	NOTNULL
Staff_qualification	VARCHAR(50)	NOTNULL

3.1.2.11 STAFF_NON_TEACHING:

FIELD	DATATYPE	CONSTRAINTS
Id	INTEGER	PRIMARY KEY
Staff_id	INTEGER	FOREIGNKEY(staff details)
department	VARCHAR(100)	NOTNULL
designation	VARCHAR(100)	NOTNULL
Join date	DATE	NOTNULL

3.1.2.12 STAFF_TEACHING:

FIELD	DATATYPE	CONSTRAINTS
Id	INTEGER	PRIMARY KEY
Staff_id	INTEGER	FOREIGNKEY(staff details)
branch	INTEGER	FOREIGN KEY(branch)
designation	VARCHAR(100)	NOTNULL
join date	DATE	NOTNULL

3.1.2.13 LOGIN_INFO:

FIELD	DATATYPE	CONSTRAINTS
Staff_id	INTEGER	FOREIGN KEY(staff_details)
username	VARCHAR(50)	PRIMARY KEY
password	VARCHAR(32)	NOTNULL

3.1.2.14 ACCESS_RIGHTS INFO:

FIELD	DATATYPE	CONSTRAINTS
Id	INTEGER	PRIMARY KEY
username	VARCHAR(50)	FOREGIN KEY (username)
permission	VARCHAR(50)	NOTNULL
Module	VARCHAR(50)	NOTNULL
Dept_permission	VARCHAR(50)	NOTNULL

3.2 PROCESS MODEL

3.2.1 USE CASE DIAGRAM

3.2.1.1 SUPER-ADMIN/STAFF

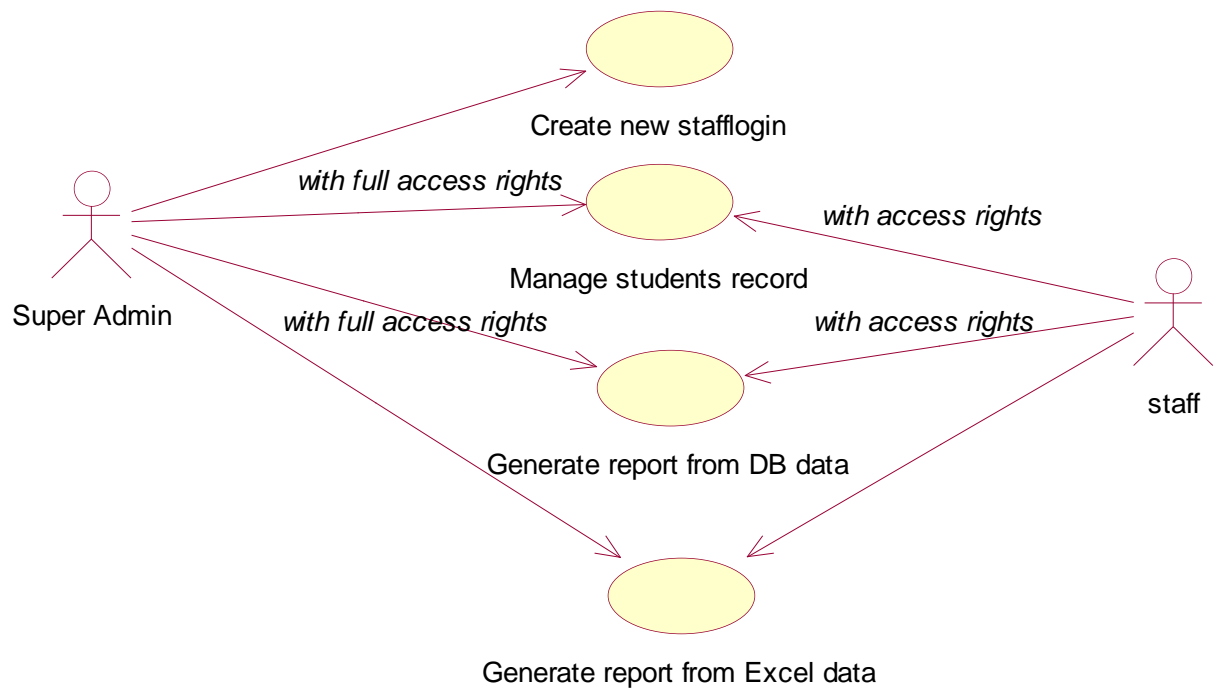


FIG 3.2.1.1: *SUPER-ADMIN/STAFF*

3.2.2 DATA FLOW DIAGRAM

3.2.2.1. Level 0:

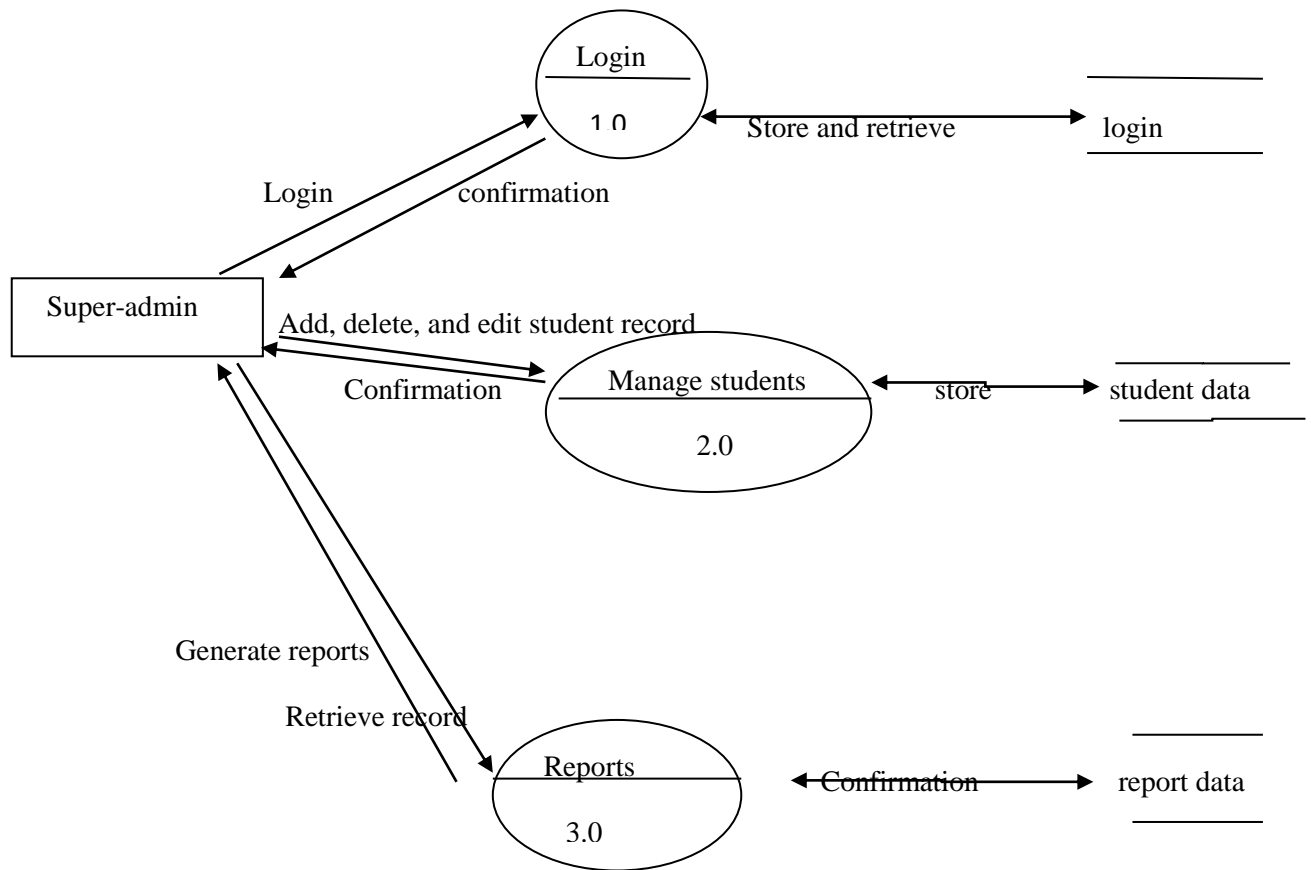


FIG 3.2.2.1 Level 0 Data Flow Diagram

3.2.2.2. Level 1:

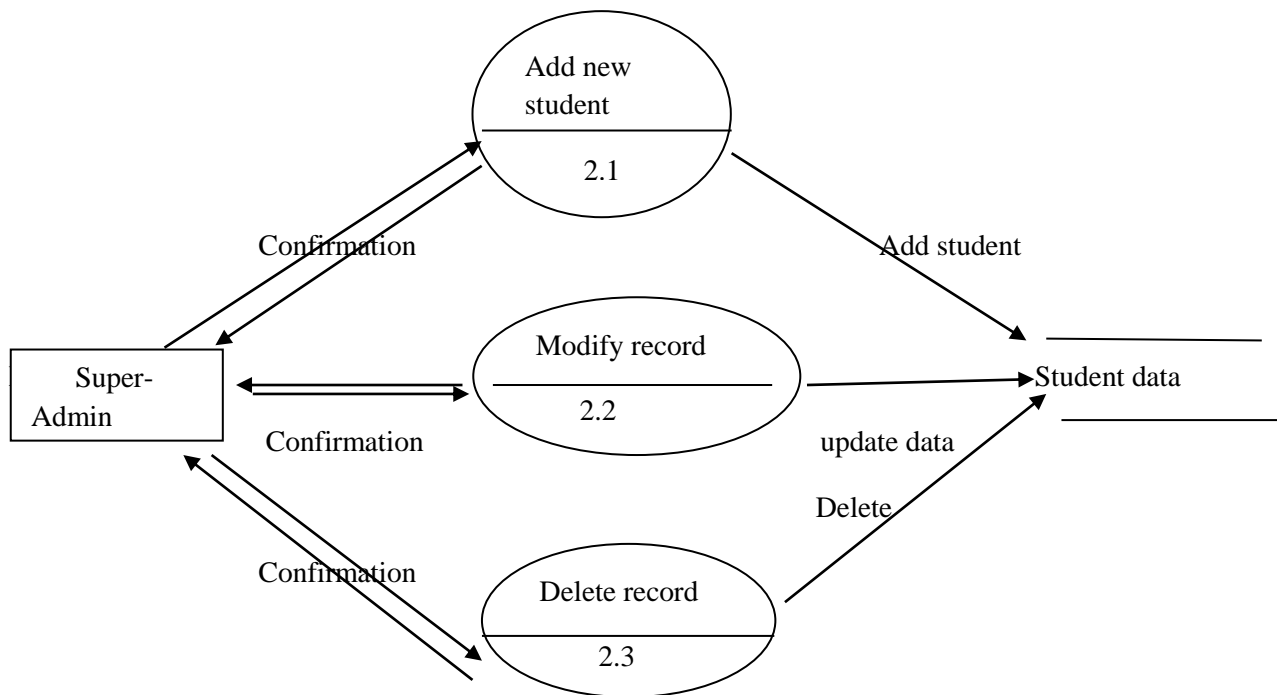


FIG 3.2.2.2 Level 1 Data Flow Diagram

3.2.2.3. Level 2:

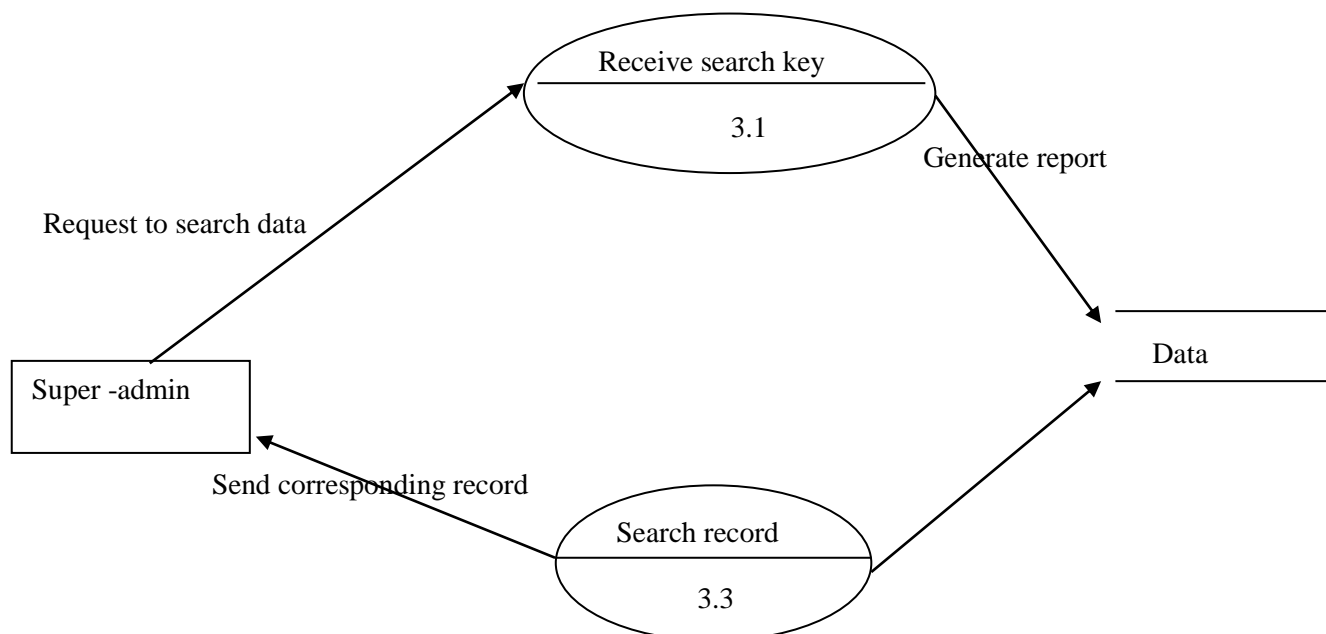


FIG 3.2.2.3 Level 2 Data Flow Diagram

3.2.3 SEQUENCE DIAGRAM

3.2.3.1 MANAGE STUDENTS

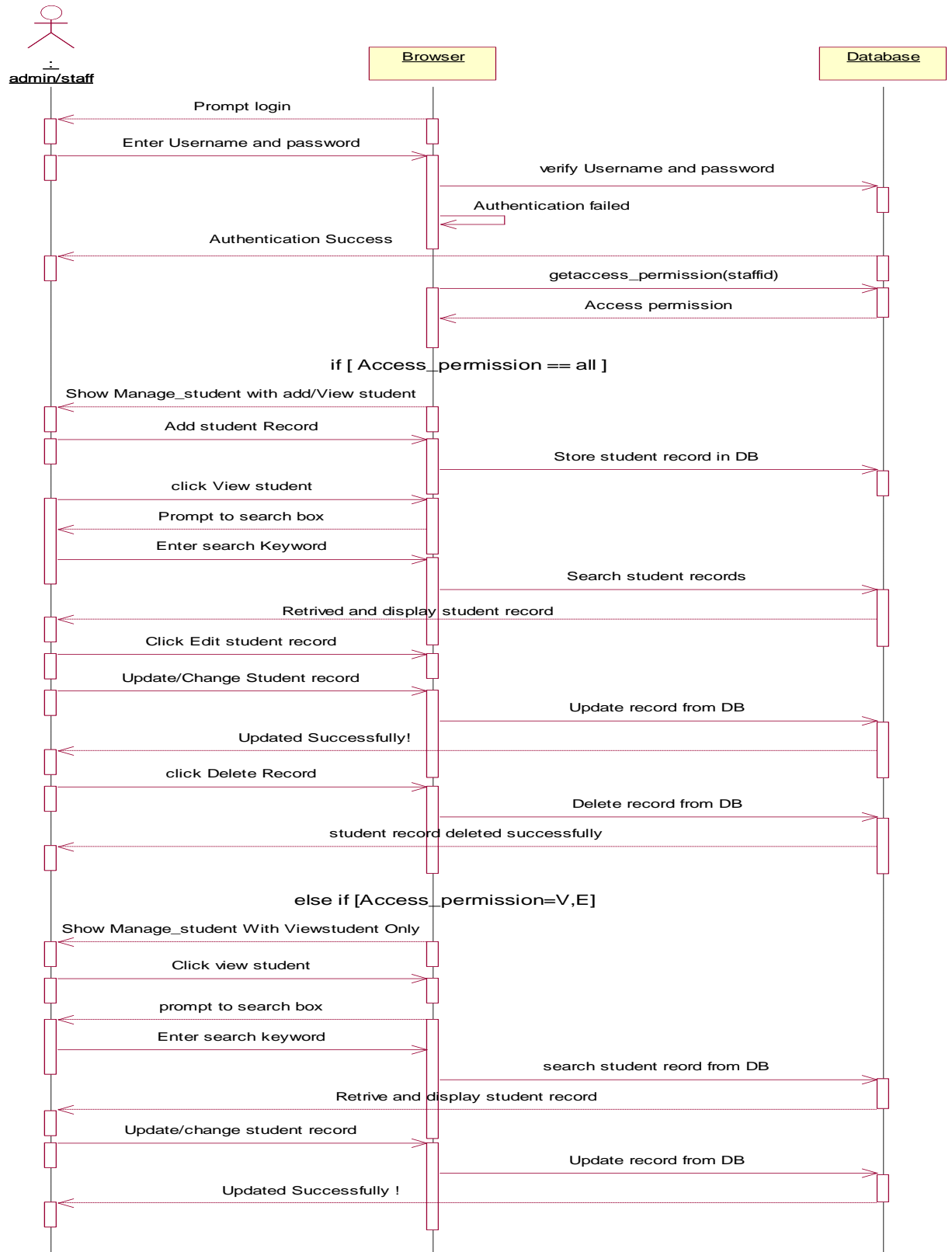


FIG 3.2.3.1: Manage Students

3.2.3.2 CREATE STAFF LOGIN

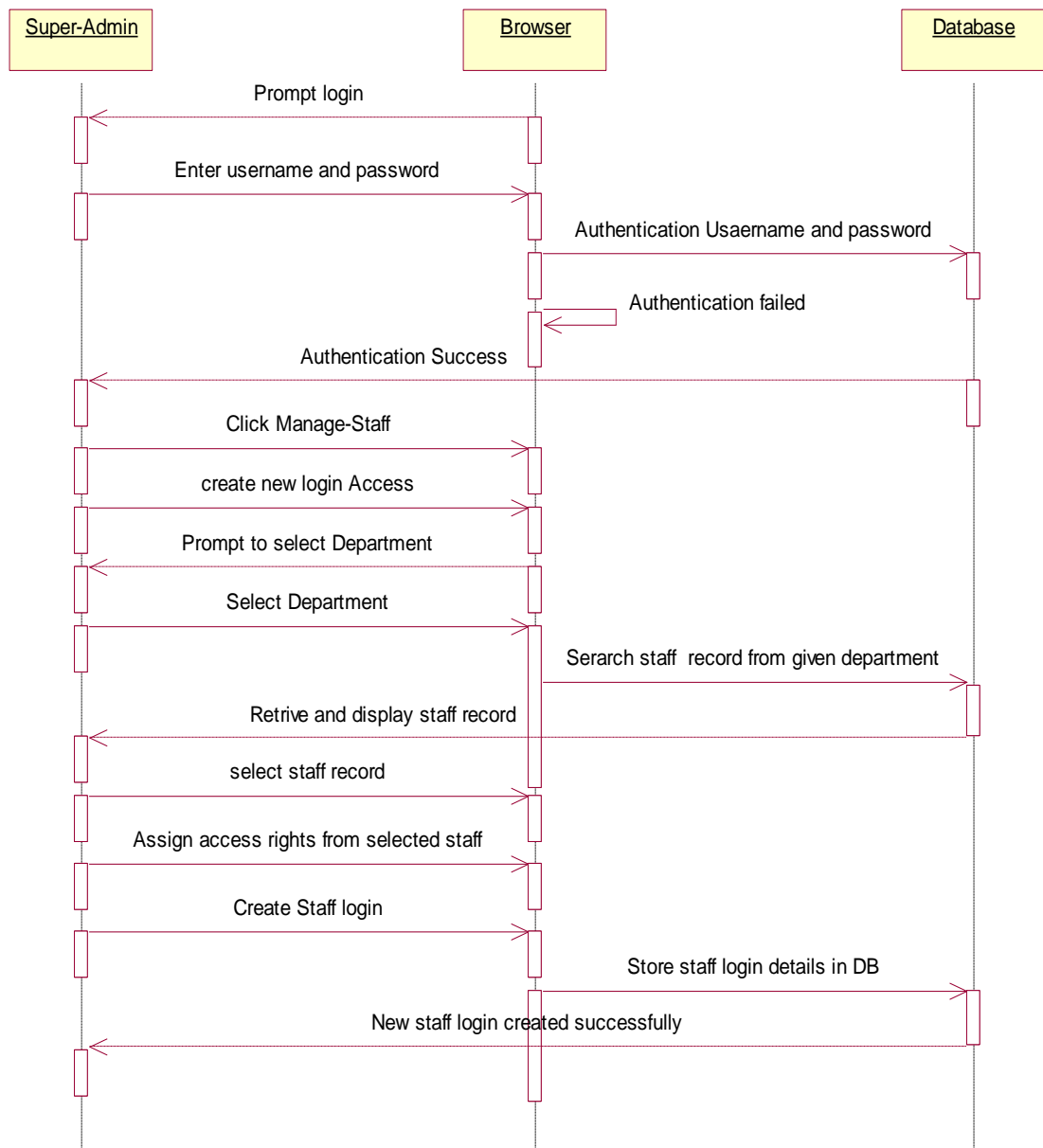


FIG 3.2.3.2: Create Staff Login

3.2.3.3 REPORT GENERATION FROM DB

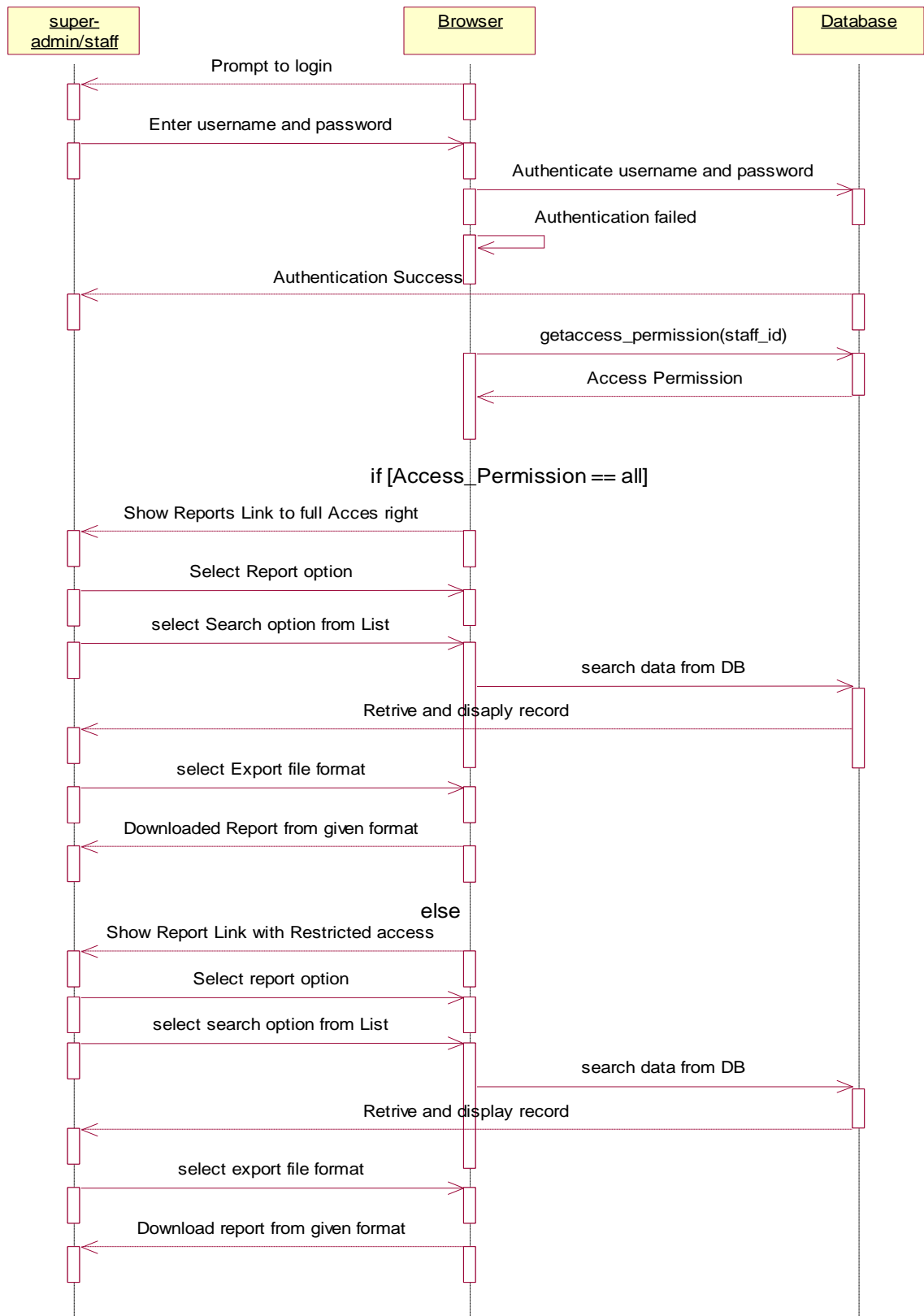


FIG 3.2.3.3: Report Generation from DB

3.2.3.4 REPORT GENERATION FROM EXCEL

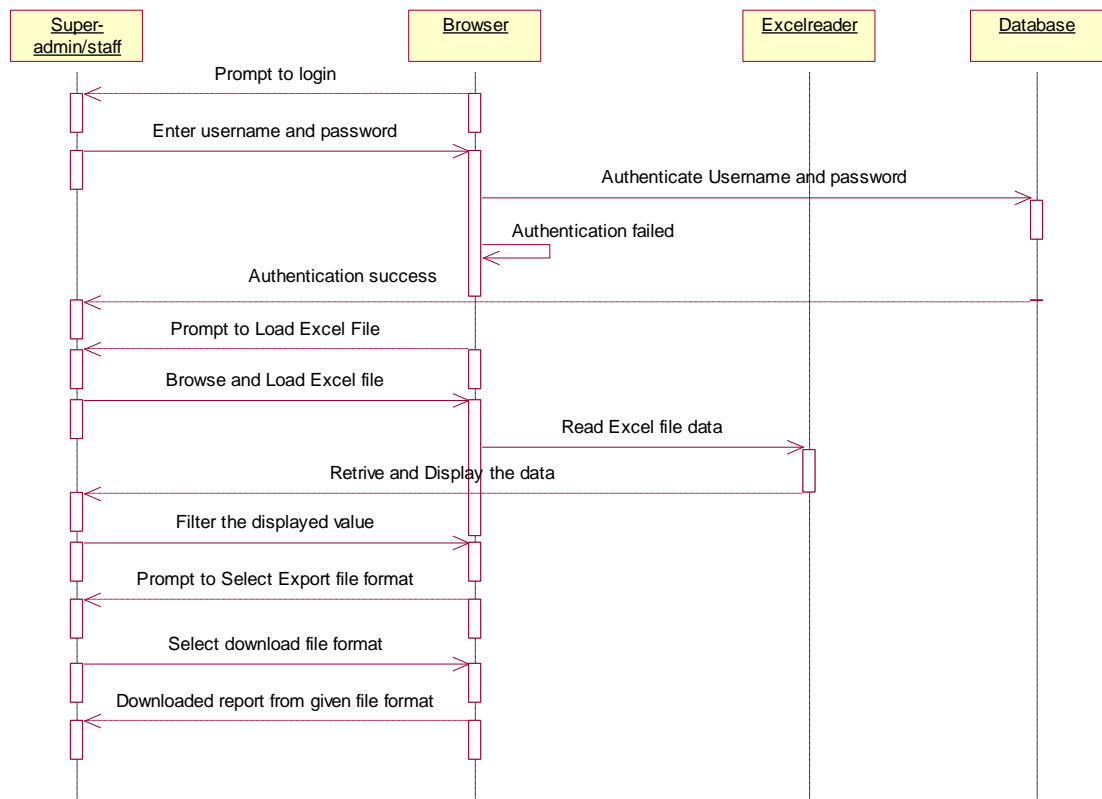


FIG 3.2.3.4: Report Generation from Excel

3.2.4 COLLABORATION DIAGRAM

3.2.4.1 MANAGE STUDENTS

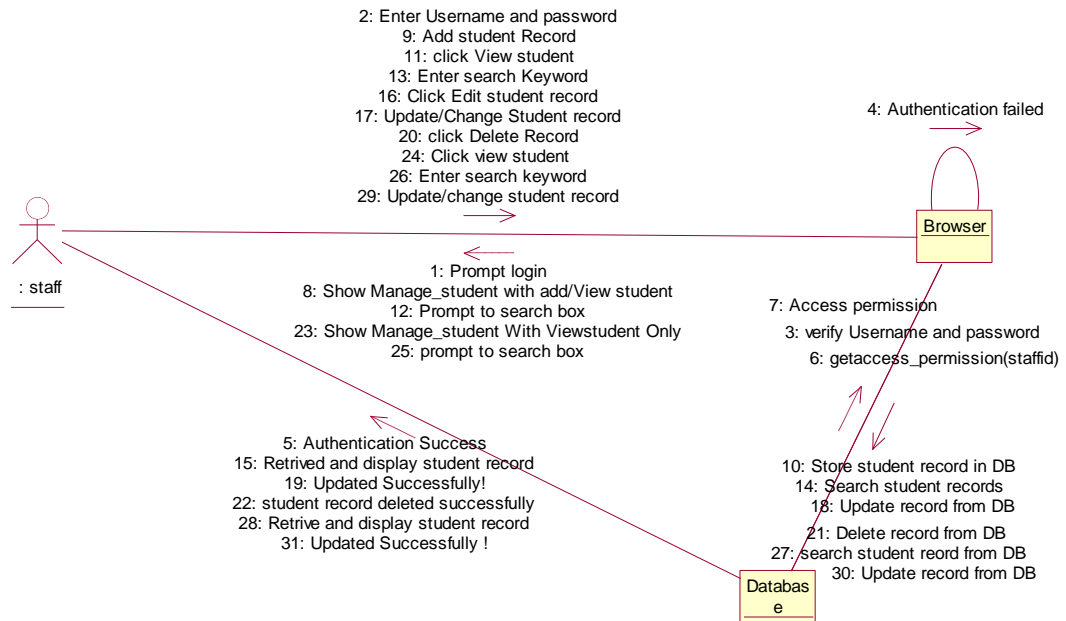


FIG 3.2.4.1: Manage Students

3.2.4.2 CREATE STAFF LOGIN

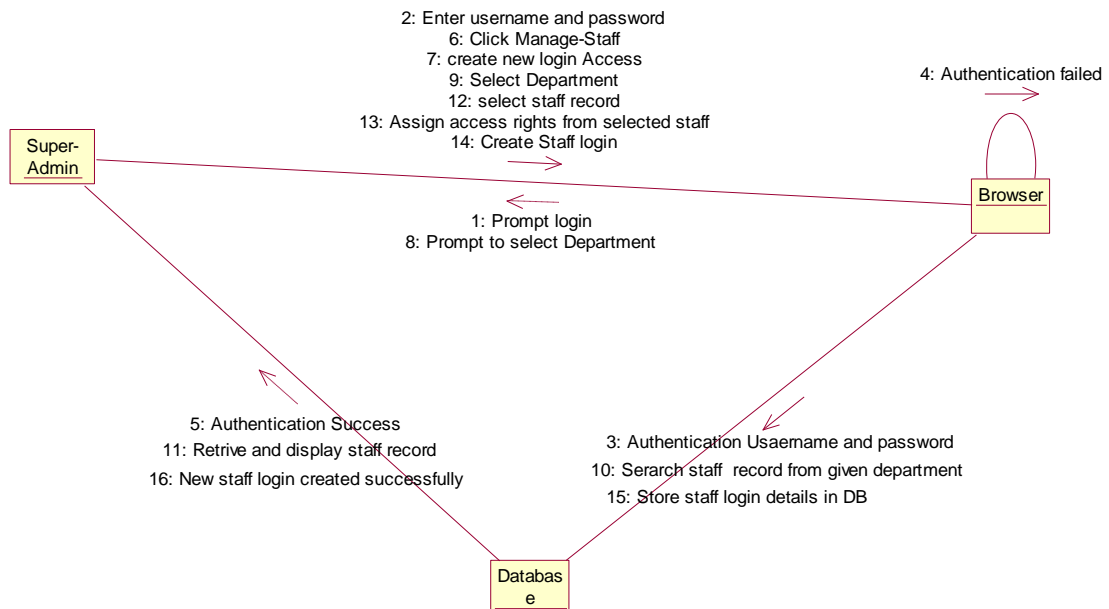


FIG 3.2.4.2: Create Staff Login

3.2.4.3 REPORT GENERATION FROM DB DATA

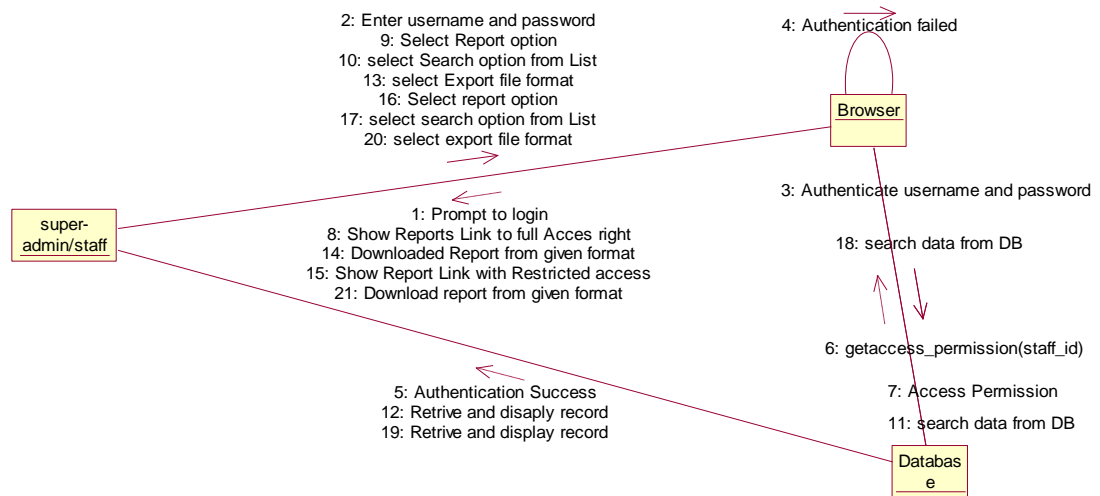


FIG 3.2.4.3: Report Generation from DB Data

3.2.4.4 REPORT GENERATION FROM EXCEL DATA

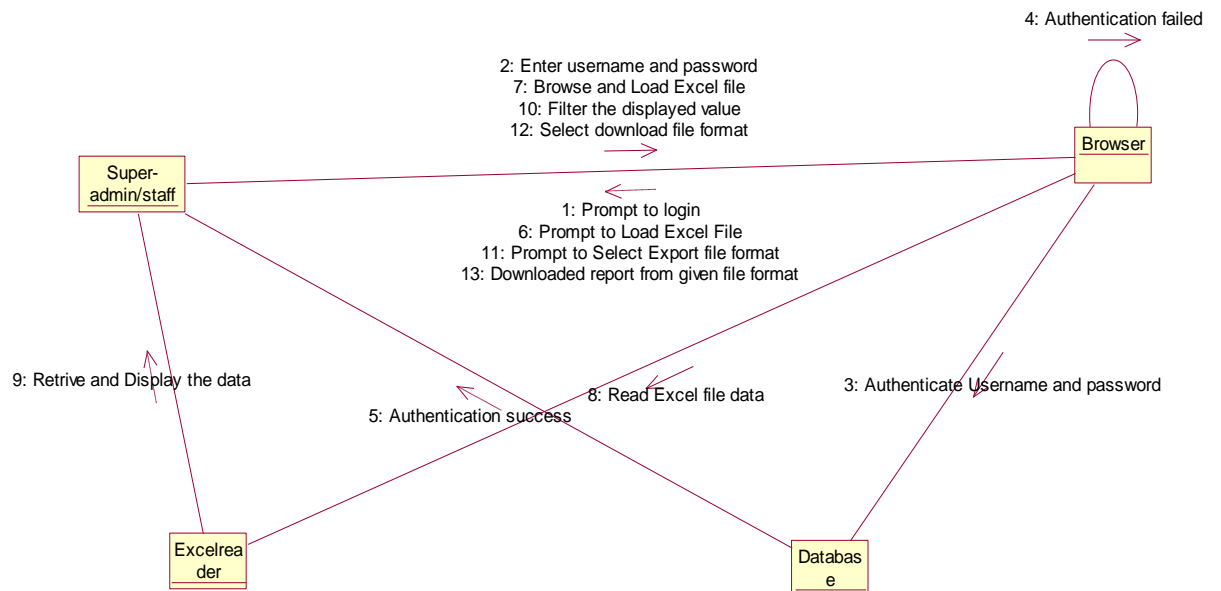


FIG 3.2.4.4: Report Generation from Excel Data

3.2.5 ACTIVITY DIAGRAM

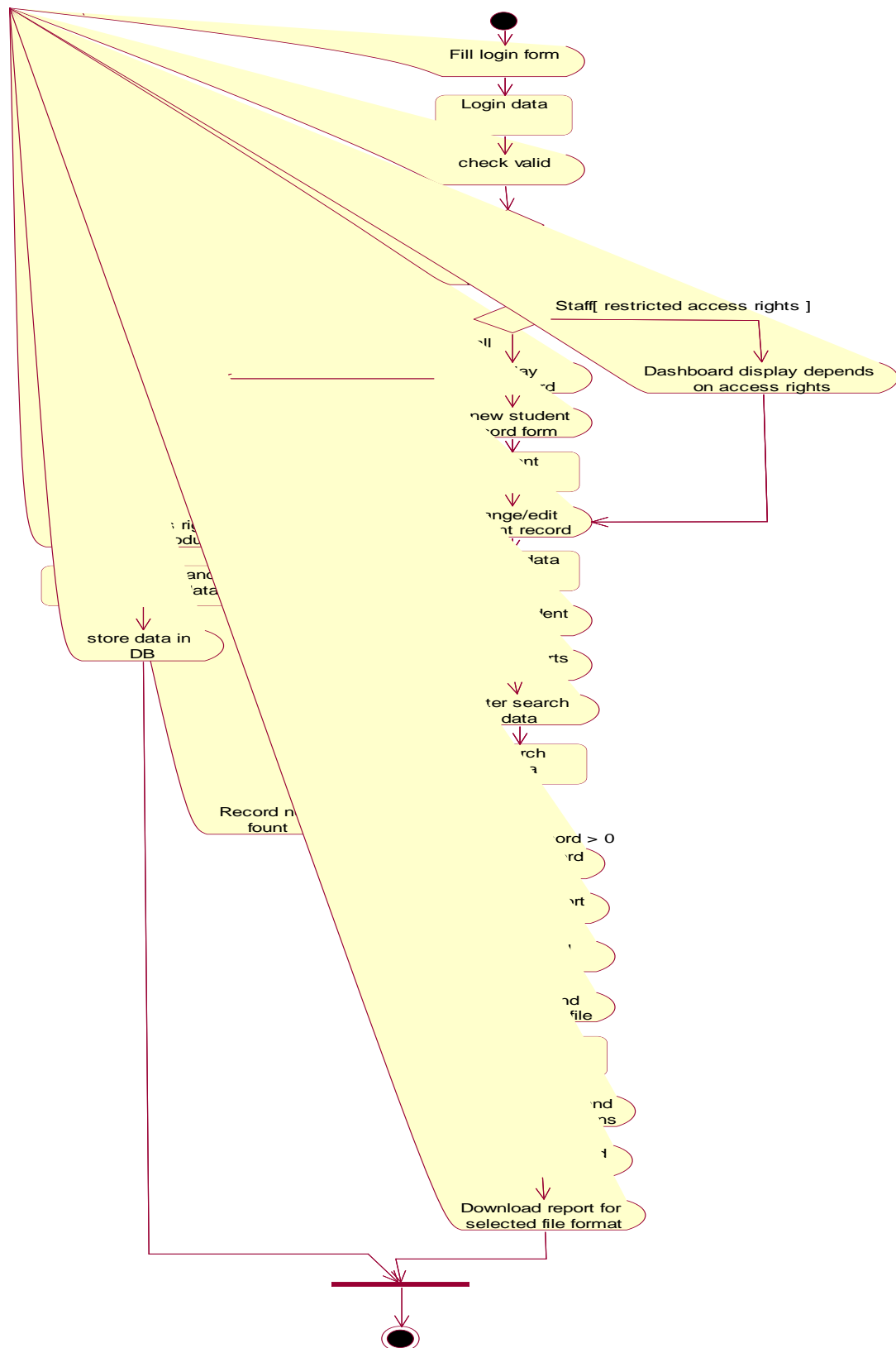


FIG 3.2.5.1: Activity Diagram

CHAPTER 4

SYSTEM IMPLEMENTATION

4.1 SAMPLE CODE

Index.php

```
<!DOCTYPE html>
<Html>
<Head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <title>AdminLTE 2 | Dashboard</title>
    <!-- Tell the browser to be responsive to screen width -->
    <meta content="width=device-width, initial-scale=1, maximum-scale=1, user-
scalable=no" name="viewport">
    <!-- Bootstrap 3.3.5 -->
    <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css">
</head>
<body class="hold-transition skin-blue-light sidebar-mini">
<div class="wrapper">
    <?php
        include("header.php");
        include("sidebar.php");
    ?>
    <!-- Content Wrapper. Contains page content -->
    <div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <section class="content-header">
    <h1>
        Dashboard
    <small>Control panel</small>
    </h1>
    <ol class="breadcrumb">
    <li><a href="#"><i class="fa fa-dashboard"></i> Home</a></li>
    <li class="active">Dashboard</li>
    </ol>
    </section>
    <?php
        include("db_con.php");
        $query = "SELECT COUNT(*) FROM admission_details;";
        $run_query = mysqli_query($con, $query);
        $total_students = mysqli_fetch_array($run_query);
```

```

$query = "SELECT COUNT(*) FROM current_course WHERE stu_degree = 3";
$run_query = mysqli_query($con, $query);
$ug_students = mysqli_fetch_array($run_query);
$query = "SELECT COUNT(*) FROM current_course WHERE stu_degree = 2";
    $run_query = mysqli_query($con, $query);
    $pg_students = mysqli_fetch_array($run_query);
?>
<section class="content">
    <!-- Small boxes (Total-student STUDENTS) -->
    <div class="row">
        <div class="col-lg-3 col-xs-6">
            <!-- small box -->
            <div class="small-box bg-aqua">
                <div class="inner">
                    <h3><?php echo $total_students[0]; ?></h3>
                    <p>Total Students</p>
                </div>
                <div class="icon">
                    <i class="fa fa-user"></i>
                </div>
                <a href="#" class="small-box-footer">More info <i
class="fa fa-arrow-circle-right"></i></a>
            </div>
        </div><!-- ./col -->

        <div class="col-lg-3 col-xs-6">
            <!-- small box (UG STUDENTS)-->
            <div class="small-box bg-green">
                <div class="inner">
                    <h3><?php echo $ug_students[0]; ?><sup
style="font-size: 20px"></sup></h3>
                    <p>UG STUDENTS</p>
                </div>
                <div class="icon">
                    <i class="fa fa-user"></i>
                </div>
                <a href="#" class="small-box-footer">More info <i
class="fa fa-arrow-circle-right"></i></a>
            </div>
        </div><!-- ./col -->

        <div class="col-lg-3 col-xs-6">
            <!-- small box (PG STUDENTS)-->

```

```

<div class="small-box bg-green">
  <div class="inner">
    <h3><?php echo $pg_students[0] ?><sup style="font-size: 20px"></sup></h3>
    <p>PG STUDENTS</p>
  </div>
  <div class="icon">
    <i class="fa fa-user"></i>
  </div>
  <a href="#" class="small-box-footer">More info <i class="fa fa-arrow-circle-right"></i></a>
</div>
</div><!-- ./col -->
<div class="col-lg-3 col-xs-6">
  <!-- small box (UG STUDENTS)-->
    <div class="small-box bg-yellow">
      <div class="inner">
        <h3>100 <sup style="font-size: 20px"></sup></h3>
        <p>STAFFS</p>
      </div>
      <div class="icon">
        <!--<i class="ion ion-stats-bars"></i>-->
      </div>
      <a href="#" class="small-box-footer">More info <i class="fa fa-arrow-circle-right"></i></a>
    </div>
  </div><!-- ./col -->
</div><!-- ./row -->
</section><!-- ./section-content -->
<?php
  include("sidepane.php");
?>
</div><!-- /.content-wrapper -->
<?php
  include("footer.php");
?>
</div><!-- ./wrapper -->
</body>
</html>

```


Add.php:

```
<?php
    include("../db_con.php");
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<title>Admin - Managestudents</title>
    <!-- Custom css For Form Styling -->
    <link rel="stylesheet" type="text/css" href="<?php echo admin_index;
?>dist/css/style.css" />
<!-- Select2 -->
<link rel="stylesheet" href="<?php echo admin_index; ?>plugins/select2/select2.min.css">
</head>
<body class="hold-transition skin-blue-light sidebar-mini">
    <div class="loader"></div><!-- div from loader -->
    <div class="wrapper">
        <?php
            //Include the header.php
            include("../header.php");
            //Include the sidebar.php
            include("../sidebar.php");
        ?>
        <div class="content-wrapper">
            <section class="content-header">
                <h1>Manage Students
                    <small>Add Student Record</small>
                </h1>
                <ol class="breadcrumb">
                    <li><a href="#"></a>Home</li>
                    <li><a href="#">Manage Students</a></li>
                    <li>Add Student Record</li>
                </ol>
            </section><!-- ./section header -->
            <section class="content">
                <div class="row">
                    <div class="panel panel-info">
                        <div class="panel-heading">Add Student
Record</div>
                        <div class="panel-body" style="font-size:12px;">
```

```

<form class="" id="student_form"
name="student" method="post" action="">
<!-- Student Personal Details -->
    <div class="frm" id="sf1">
        <fieldset>
            <legend>Step 1 of 4 <span>(Admission/Personal Details)</span></legend>

            <div class="from-group">
                <label class="col-lg-2 control-label" for="admission_no">Admission No
<span class="text-danger">*</span></label>
                <div class="col-lg-6">
                    <input type="text" name="admission_no" class="form-control input-sm"
id="admission_no" autocomplete="off" />
                </div><!-- ./lg6-->
            </div><!-- ./form group for admissionno-->
            <div class="clearfix" style="height: 10px;clear: both;"></div>
            <!-- Admission date -->
                <div class="form-group" style="margin-bottom:0px;">
                    <label class="col-lg-2 control-label" for="admission_date">Date Of
Admission<span class="text-danger">*</span></label>
                    <div class="col-lg-6 input-group" style="margin-left:18%;">
                        <div class="input-group-addon">
                            <i class="fa fa-calendar"></i>
                        </div><!-- ./Input group addon -->
                        <input type="text" class="form-control input-sm" name="admission_date"
style="width:94%;" data-inputmask="'alias':'dd/mm/yyyy'" data-mask />
                    </div><!-- ./col-lg-6 and input-group-->
                    <label for="admission_date" generated="true" class="error" style="margin-
left:18%;"></label>
                </div><!-- ./form-group for admission_date -->
            <!-- Admission qouta -->
                <div class="form-group">
                    <label class="col-lg-2 control-label" for="admission_qouta">Admission-Quota
<span class="text-danger">*</span></label>
                    <div class="col-lg-6 col-sm-5">
                        <select class="form-control select2 input-sm" name="admission_quota" data-
placeholder="Select a admission_quota">
                            <option value="default">--Select--</option>
                            <option>Councelling</option>
                            <option>Management</option>
                        </select>
                    <label for="religion" generated="true" class="error"></label>
                </div>
            </div><!-- ./form-group for religion -->
            <div class="clearfix" style="height: 10px;clear: both;"></div>
            <div class="from-group">
                <label class="col-lg-2 control-label" for="rollno">Rollno <span class="text-
danger">*</span></label>
                <div class="col-lg-6">

```

```

<input type="text" name="rollno" class="form-control input-sm" id="rollno"
autocomplete="off" />
</div><!-- ./lg6-->
</div><!-- ./form group for rollno-->
<div class="clear fix" style="height: 10px; clear: both ;"></div>
<div class="form-group">
<label class="col-lg-2 control-label" for="fname">FirstName <span class="text-
danger">*</span></label>
<div class="col-lg-6">
<input type="text" class="form-control input-sm" name="fname" id="fname"
autocomplete="off" />
</div><!-- ./lg-6-->
</div><!-- ./form-group for fname -->
<div class="clearfix" style="height: 10px;clear: both;"></div>
<div class="form-group">
<label class="col-lg-2 control-label" for="lname">LastName <span class="text-
danger">*</span></label>
<div class="col-lg-6">
<input type="text" class="form-control input-sm" name="lname" id="lname"
autocomplete="off" />
</div><!-- ./lg-6 -->
</div><!-- ./form-group for lname -->
<div class="clearfix" style="height: 10px;clear: both;"></div>
<div class="form-group">
<label class="col-lg-2 control-label" for="gender">Gender <span class="text-
danger">*</span></label>
<div class="col-lg-6">
<label class="Form-label--tick">
<input type="radio" name="gender" class="Form-label-radio" value="male" />
<span class="Form-label-text"> Male</span>
</label>
<label class="Form-label--tick">
<input type="radio" name="gender" class="Form-label-radio" value="female" />
<span class="Form-label-text"> Female</span>
</label>
<label class="Form-label--tick">
<input type="radio" name="gender" class="Form-label-radio" value="others" />
<span class="Form-label-text"> Others</span>
</label>
<label for="gender" generated="true" class="error" style="font-
weight:bold;color:#FF0000;margin-left:7%;"></label>
</div><!-- ./lg-6-->
</div><!-- ./form-gropu for Gender -->
<div class="clearfix" style="height: 10px;clear: both;"></div>
<!-- Date Of birth -->
<div class="form-group">
<label class="col-lg-2 control-label" for="dob">Date of Birth <span class="text-
danger">*</span></label>
<div class="col-lg-6 input-group" style="margin-left:18%;">
<div class="input-group-addon">

```

```

<i class="fa fa-calendar"></i>
    </div><!-- ./Input group addon -->
    <input type="text" class="form-control input-sm" name="dob" style="width:94%;"
data-inputmask="alias:'dd/mm/yyyy'" data-mask />
</div><!-- ./col-lg-6 and input-group-->
    <label for="dob" generated="true" class="error" style="margin-
left:18%;"></label>
    </div><!-- ./form-group for DOB -->
    <!-- Religion -->
    <div class="form-group">
        <label class="col-lg-2 control-label" for="religion">Religion <span class="text-
danger">*</span></label>
        <div class="col-lg-6 col-sm-5">
            <select class="form-control select2 input-sm" name="religion" data-placeholder="Select a
Religion">
                <option value="default">--Select--</option>
                <option>Hindu</option>
                <option>Christian</option>
                <option>Islam</option>
                <option>Jain</option>
                <option>Sikhism</option>
            </select>
            <label for="religion" generated="true" class="error"></label>
        </div>
    </div><!-- ./form-group for religion -->
    <div class="clearfix" style="height: 10px;clear: both;"></div>
    <!-- Community -->
    <div class="form-group">
        <label class="col-lg-2 control-label" for="Community">Community <span
class="text-danger">*</span></label>
        <div id="totopscroller"></div>
        <?php
            //Include the footer page
            include("../footer.php");
            //Include the sidepane page
            include("../sidepane.php");
        ?>
    </div><!-- ./wrapper -->
</body>
</html>

```

CHAPTER 5

TESTING

5.1 Testing Strategy

A testing strategy is a general approach to the testing process rather than a method of devising particular system or component tests.

The main objectives of testing it as follows:

- Testing is the process of executing program with the intent of finding error.
- A good test is one that has a high probability of finding an as yet undiscovered error.
- A successful test is one that uncovers an as yet undiscovered error.
- To affirm the quality of the project.
- To find and eliminate any errors from previous stages.
- To validate the software and to eliminate the operation.
- Reliability of the system.

5.1.1 Unit Testing

Unit testing is one of the types of testing strategies that focuses on testing the software module and its boundaries.

Specify the minimum degree of comprehensiveness desired. Identify the techniques which will be used to judge the comprehensiveness of the testing effort. Specify any additional completion criteria. The techniques to be used to trace requirements should be specified.

Unit testing is the phase of testing that testing the basic functionality and the structure of the code. The module is testing to ensure that information flows is proper into and out of the program under unit testing. Each of the individual reports has been tested extensively to determine whether the required output has been obtained or not.

Unit testing is done every individual unit in the system.

In Report Builder, I included login and staff Login creational module as a sample for unit testing. It registers new staff and student into the system. Once the registration for the staff is successful, the details will be stored into the system and the staff Username will be generated and send mail to the staff. Open Load Excel page and Excel name will be displayed left text box Display the message as ‘The file has been loaded’ and data to be displayed Table.

5.1.1.1 TEST PLAN

Table 5.1 – Test Plan

Module Name	Type of Test	Description about the test
Manage Students	Unit test, Functional test	If the super admin enters the valid student data. It will show next screen. And store data into database If invalid details given it will show the error message
Manage staff	Unit test, Functional test	If the staff enters the valid username and password. It will show next screen. If invalid details given it will show the error message
Load Excel	Unit test, Functional test	If the staff load Excel file. It will show Excel data in page. If invalid file format given it will show the error message

5.1.1.2 Test Cases:

Test Case1:

Table - 5.1 Test case – Load Excel

ID	1	
Title	Load Excel Sheet	
Priority	High	
Module	Load Excel/CSV	
Execution result	<div></div> Success	
Purpose	Load external Excel file for report generation	
Created by	Balakumar B, 2016-05-11 09:40 AM	
Test Environment	WAMP	
Pre-conditions: User has Excel/ CSV file with first row as a Header		
	Description	Expected result
Step 1	Go to http://localhost/report_builder/pages/load_file.php	Open Load Excel page
Step 2	Choose Excel file from your PC	Excel name will be displayed left text box
Step 3	Enter work sheet Number from excel sheet	
Step 4	Click ‘upload’ button	Display the message as ‘The file has been loaded’ and data to be displayed Table
Post-conditions: The Excel Data Loaded Successfully.		

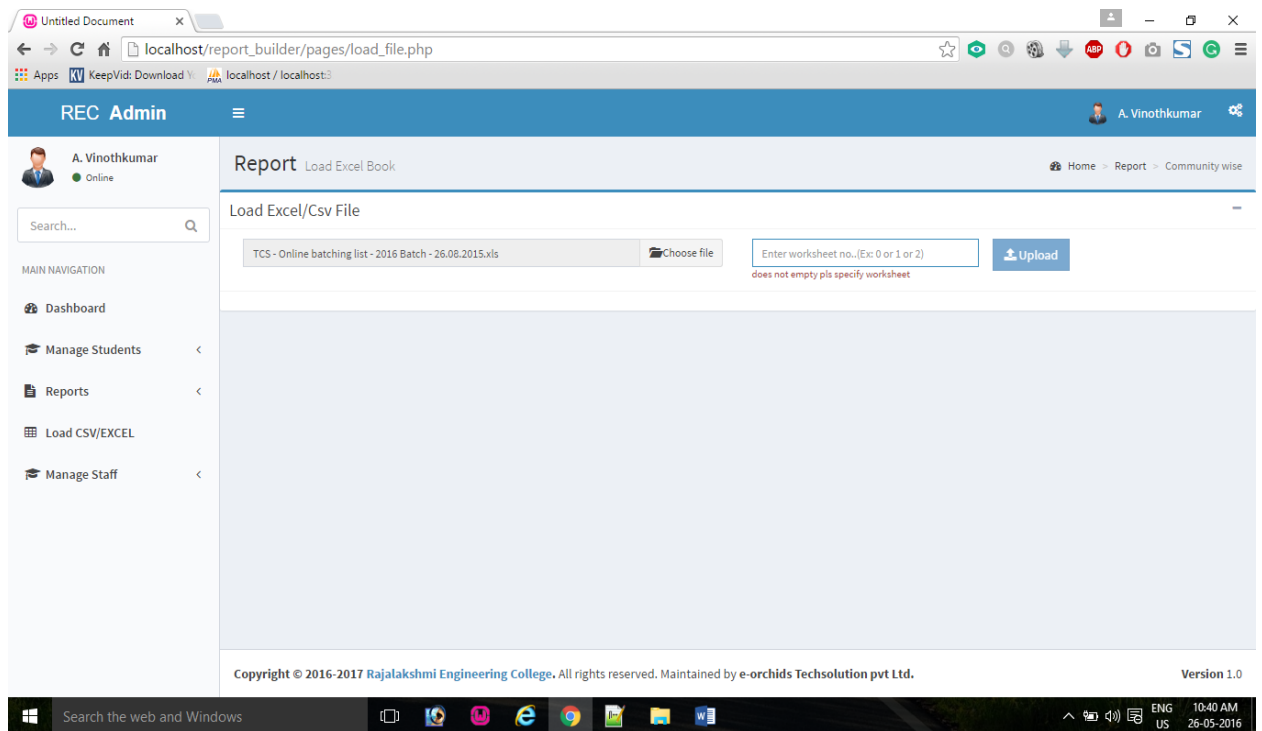


Fig. 5.1(a) - Invalid Details for Load excel file

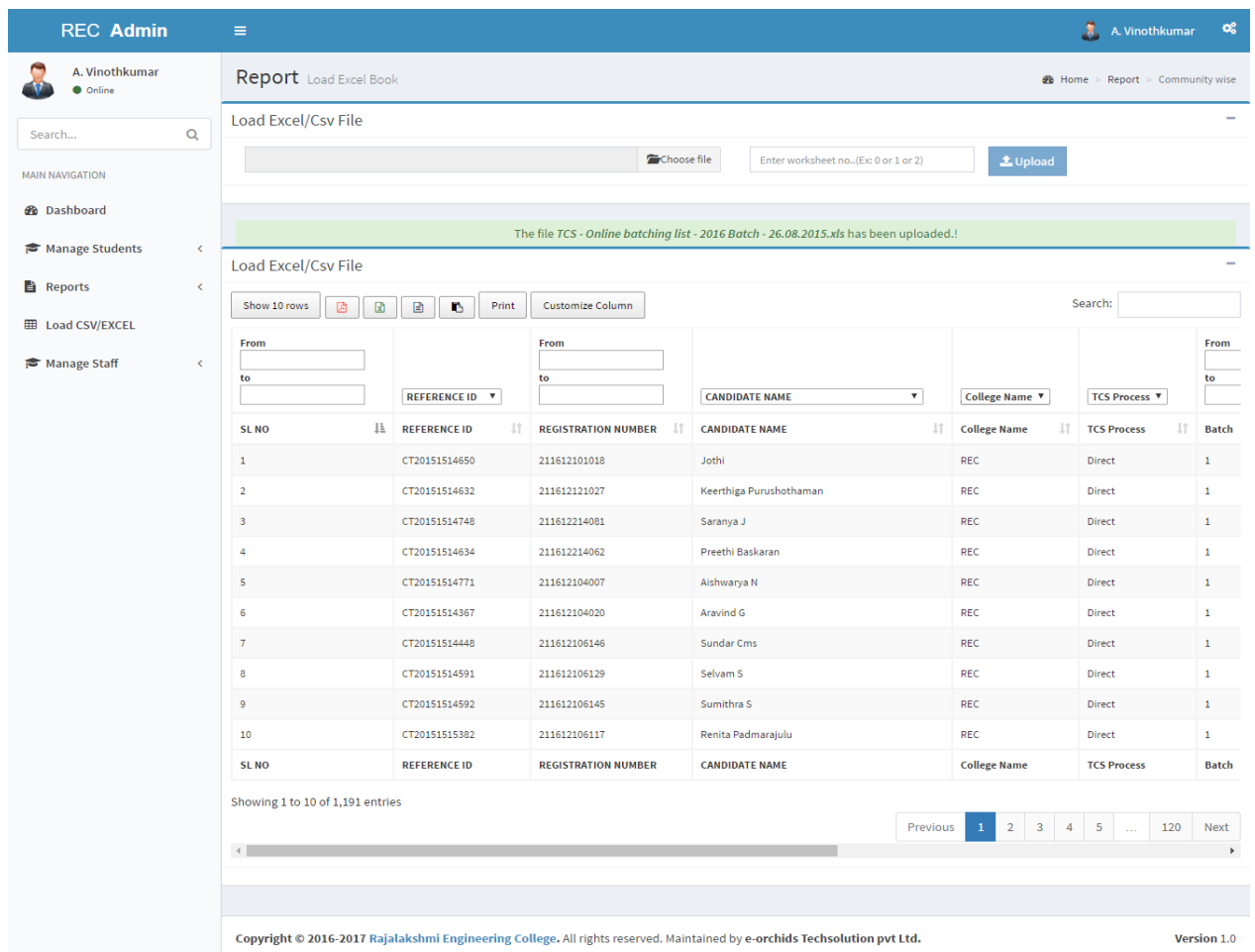


Fig. 5.1(a) - Valid Details for Load excel file

Test Case2:**Table - 5.2 Test case – create staff Login**

ID	2	
Title	Create staff login	
Priority	High	
Module	Manage staff	
Execution result	<div></div> Success	
Purpose	Provide username and password in individual login for staff.	
Created by	Balakumar B, 2016-05-11 03:40 PM	
Test Environment	WAMP	
Pre-conditions: super-admin only can create staff login and staff details should be there in DB		
	Description	Expected result
Step 1	Go to http://localhost/report_builder/pages/manage_staffs/add.php	Open create staff login page
Step 2	Ensure Choose Teaching or Non-Teaching	If choosing Teaching load Teaching departments in Department Dropdown List or If choosing non-Teaching Load Non-Teaching departments in Department dropdown.
Step 3	Should be Select Department as ‘Computer science and Engineering’	Load staff details in Staff Dropdown list like <i>Arthi (21023, (AP(SS))</i> , If staff already have username and password show disabled
Step 4	Ensure Select staff as ‘Arthi (21023, (AOP))’	Username and password automatically generated. username as ‘ <i>arthi_21023</i> ’ and password as ‘ <i>arthi_21023</i> ’ and automatically filled at Username and password fields
Step 5	Assign access permissions as ‘edit, delete, view’ for manage students module and select dept.-permission as	

	'own' and assign access permission as 'show without customize' for reports modules and select dept.-permission as 'own'.	
Step 6	Click 'create' button	Show response message as 'staff Login created successfully for Arthi(21023, AP(SS))'
Step 7	Click 'Send Email' button	Show response message as 'mail sent successfully'
Step 8	Click 'clear' button	Clear all selected and filled fields.
Post-conditions: Staff login details and access permission details stored in database successfully		

REC Admin

A. Vinothkumar Online

Manage staffs create staff login access

Home > Manage Staff Details > create staff login access

Create Staff Login Process

Staff login info

Working-Type ☒ Teaching ☐ Non-Teaching

Department Computer Science and Engineering

Staff Select a staff

Username

Password --select--

Access Rights Adc Vaithi (21003, AOP) Arthi (21023, AP(SS))

Reports

Manage-students

Already created

Create Send Email Clear

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Fig. 5.2(a) - Invalid Details for staff login creational

REC Admin

A. Vinothkumar Online

Search...

MAIN NAVIGATION

- Dashboard
- Manage Students
- Reports
- Load CSV/EXCEL
- Manage Staff
- Create staff Login
- View staff Access Permission

Manage staffs create staff login access

Home > Manage Staff Details > create staff login access

Create Staff Login Process

Staff login info

Working-Type ☒ Teaching ☐ Non-Teaching

Department Computer Science and Engineering

Staff Arthi (21023, AP(SS))

Username arthi_21023

Password arthi_21023

Access Rights	Add	Edit	Delete	View	Dept-Permission
Manage-students	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> All <input checked="" type="checkbox"/> Own Computer Science and Engineering

Access Rights	Show with Customize	Show without Customize	Hide	Dept-Permission
Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> All <input checked="" type="checkbox"/> Own Select a dept

Create Send Email Clear

Staff Login details Created Successfully ! for Arthi (21023, AP(SS)) at Thursday, May 26th, 2016, 11:01:33 AM.

Email sent! "

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Fig. 5.2(a) - Valid Details for staff login creational

5.1.2 Validation Testing

Validation testing is used to uncover and correct interfacing errors. It succeeds when the software functions in the manner that is reasonably expected. The various inputs in the system is checked and validated in the client side and provide response before sending the data to the server.

Validation testing plays a vital role in maintaining data consistency and avoiding incorrect data to store into the system.

Validation test cases for admin login is given below

Test Case 3:

Table 5.3 - Test case- Staff Login

ID	3	
Title	Log in	
Priority	High	
Execution result	<div><div></div> Success</div>	
Purpose	Verify Login with valid login credential	
Created by	Balakumar B, 2016-05-12 10:40 AM	
Test Environment	WAMP	
Pre-conditions: User has valid username and password		
	Description	Expected result
Step 1	Open a Browser	The browser opens
Step 2	Go to http://localhost/report_builder/	The Login page is shown
Step 3	Enter ‘a.vinothkumar_21044’ as the username and ‘a.vinothkumar_21044’as the password.	
Step 4	Click ‘sign in’ button	The System logs in to your request Redirect Dashboard page/home page
Post-conditions: User is validated with database and successfully login to account. The account session details are logged in database		

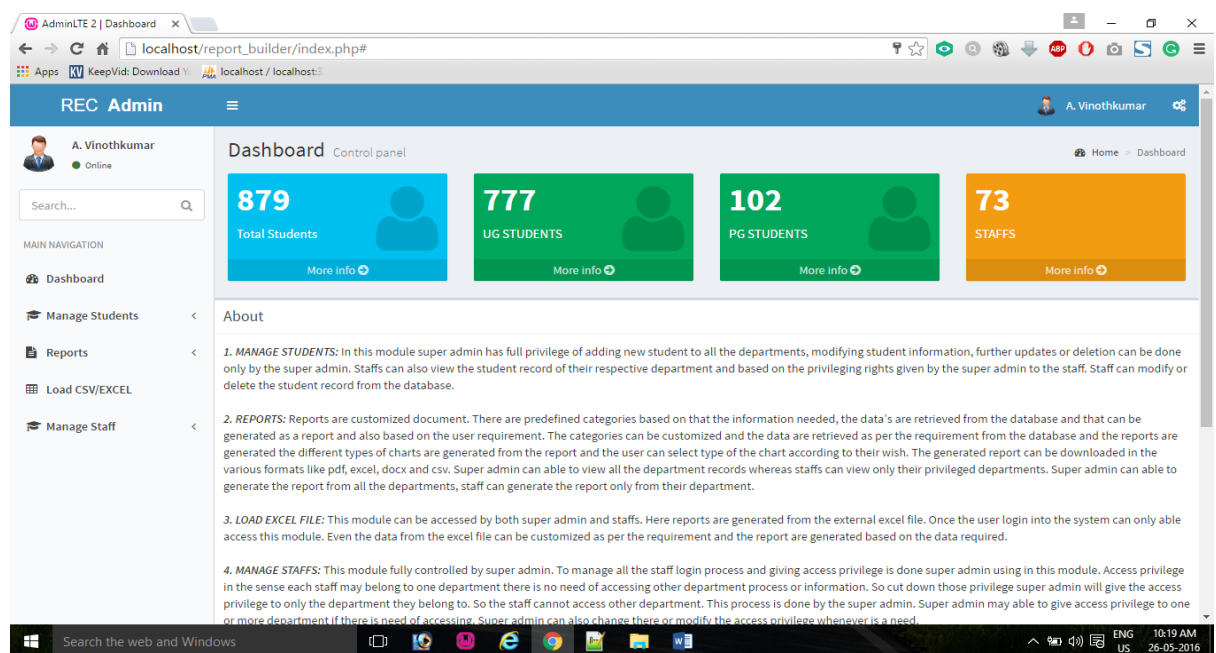


Fig. 5.3(a)–Staff Login, Valid Details

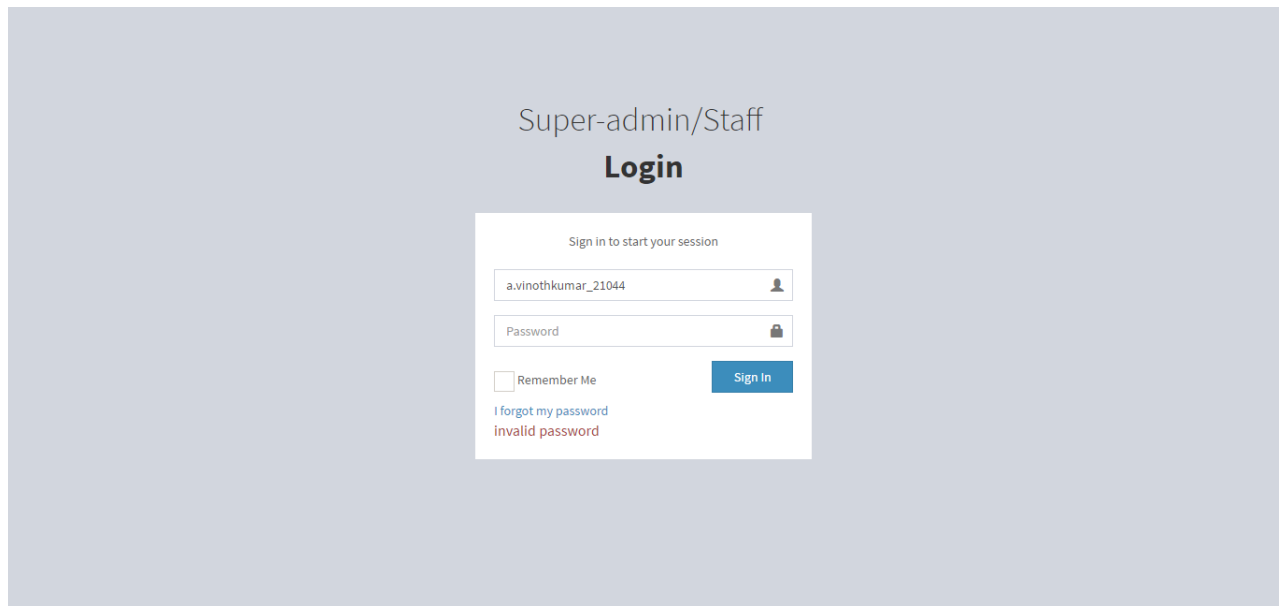



Fig. 5.3(b)–Staff login, Invalid Data

Test Case 4:

Table 5.4 - Test case – Add new Student Record

ID	4	
Title	Add Student Individual record	
Priority	Medium	
Module Name	Manage Students	
Execution result	 Success	
Purpose	Store student personal, contact and academic details	
Created by	Balakumar B, 2016-05-11 03:40	
Test Environment	WAMP	
Pre-conditions: User has complete record from student like personal details, contact details, academic details and user has permission for Add new student		
	Description	Expected result
Step 1	Go to http://localhost/report_builder/pages/manage_students/add.php	The Add student record page shown
Step 2	Enter student personal details, admission details for admission no, admission date, and select admission quota then enter roll no, first name, last name, etc... And all fields are mandatory except mother’s maiden name and languages known.	
Step 3	Click ‘Next’ Button	Doesn’t show error message

		and show contact details fields
Step 4	Enter student contact details for email, parent email, mobile, parent mobile, and present address, permanent address contains house no, street, area, city, district, state, country and pin code. these all fields are mandatory and student email and parent email should not be same	
Step 5	Click 'Next' Button	Doesn't show error message and show current academic details fields.
Step 6	Enter student current course details like university register number, and select join mode, course-type, degree, course, and branch and enter section. All fields are mandatory except section.	
Step 7	Click 'Next' Button	Doesn't show error message. And show previous academic details fields
Step 8	Default show X degree fields if you want add one more degree record click Add row button for top of table, dynamically add one more degree fields and then select degree then enter details. If not need one more degree fields click Remove row button dynamically remove bottom of the row fields	
Step 9	Click 'submit' Button	Doesn't show error message and display response message for Student record successfully Inserted.
Post-conditions: Student all details stored in database		

The screenshot shows the 'Manage Students' section with the 'Add Student Record' sub-section. A green message states: '201308005 Record has been Inserted Successfully!'. Below the message is a blue button labeled 'Add another record'. The left sidebar contains a search bar and a main navigation menu with options: Dashboard, Manage Students (selected), Add new Student Record, View Student Record, Reports, Load CSV/XLS, and Manage Staff. The top header shows 'REC Admin' and the user 'A. Vinothkumar' with a status 'Online'. The bottom footer contains copyright information for Rajalakshmi Engineering College and version 1.0.

Fig. 5.4(a) – Add new student record, Valid Details

The screenshot shows the 'Add Student Record' form, specifically 'Step 3 of 4 (Academic Details)'. The form contains several fields: 'University Reg.no *' (empty), 'Joined *' (set to 'Regular'), 'Course-Type *' (set to '--Select--'), 'Degree *' (set to 'PG'), 'Course *' (set to 'Master of Computer Applications(MCA)'), 'Branch *' (set to 'Computer Application'), and 'Section' (set to 'A'). Red error messages are displayed: 'This field is required.' for the empty 'University Reg.no' field and 'Please select course-type' for the 'Course-Type' dropdown. At the bottom of the form are two buttons: 'Back' (orange) and 'Next' (blue). The left sidebar and top header are identical to the previous figure. The bottom footer contains the same copyright and version information.

Fig. 5.4(b) – Add new student record, Invalid Data

5.1.3 CYCLOMATIC COMPLEXITY

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of the software implementation. Test techniques include, but are not limited to, the process of executing a program or application with the intent of finding software bugs (errors or other defects).

Unit testing is a software development process in which the smallest testable parts of an application, called units, are individually and independently scrutinized for proper operation. Path testing is a structural method for unit testing. Its goal is to ensure that all statements in the program, and both sides of every (two-sided) test in the program, are executed or followed by at least one test. It can be applied to source code or to reasonably detailed pseudo code, provided that all tests and loops in the source code are explicitly shown in the pseudo code as well. Path testing includes two major steps:

1. Use the source code to produce a Flow Graph
2. Using the flow graph and source code as references, produce a set of test for the given program.

Consider the following source code which authenticate the users and provides them respective functions.

S1: \$stu_id=\$_POST ["stu_rollno"];

S2: \$stu_name=\$_POST ["stu_name"];

S3: \$email=\$_POST ["email"];

S4: \$stu_dob=\$_POST ["stu dob"];

S5: \$address=\$_POST ["address"];

S6: \$state=\$_POST ["state"];

S7: \$pin code=\$_POST ["pincode"];

S8: \$country=\$_POST ["country"];

S9: \$district=\$_POST ["district"];

S10: \$mob_no=\$_POST ["mob_no"];

C1: if (empty (\$name))

S11: echo "Please enter name";

C2: else if (empty (\$address))

S12: echo "Please enter address";

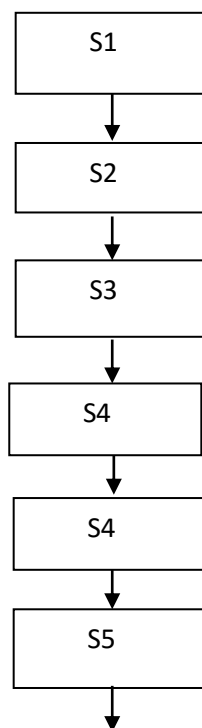
C3: else if (empty (\$email))

S13: echo "Please enter email address";

C4: else if (empty (\$mobile))

S14: echo "Please enter mobile number";

The flow – graph for the above code is shown in Fig 5.5



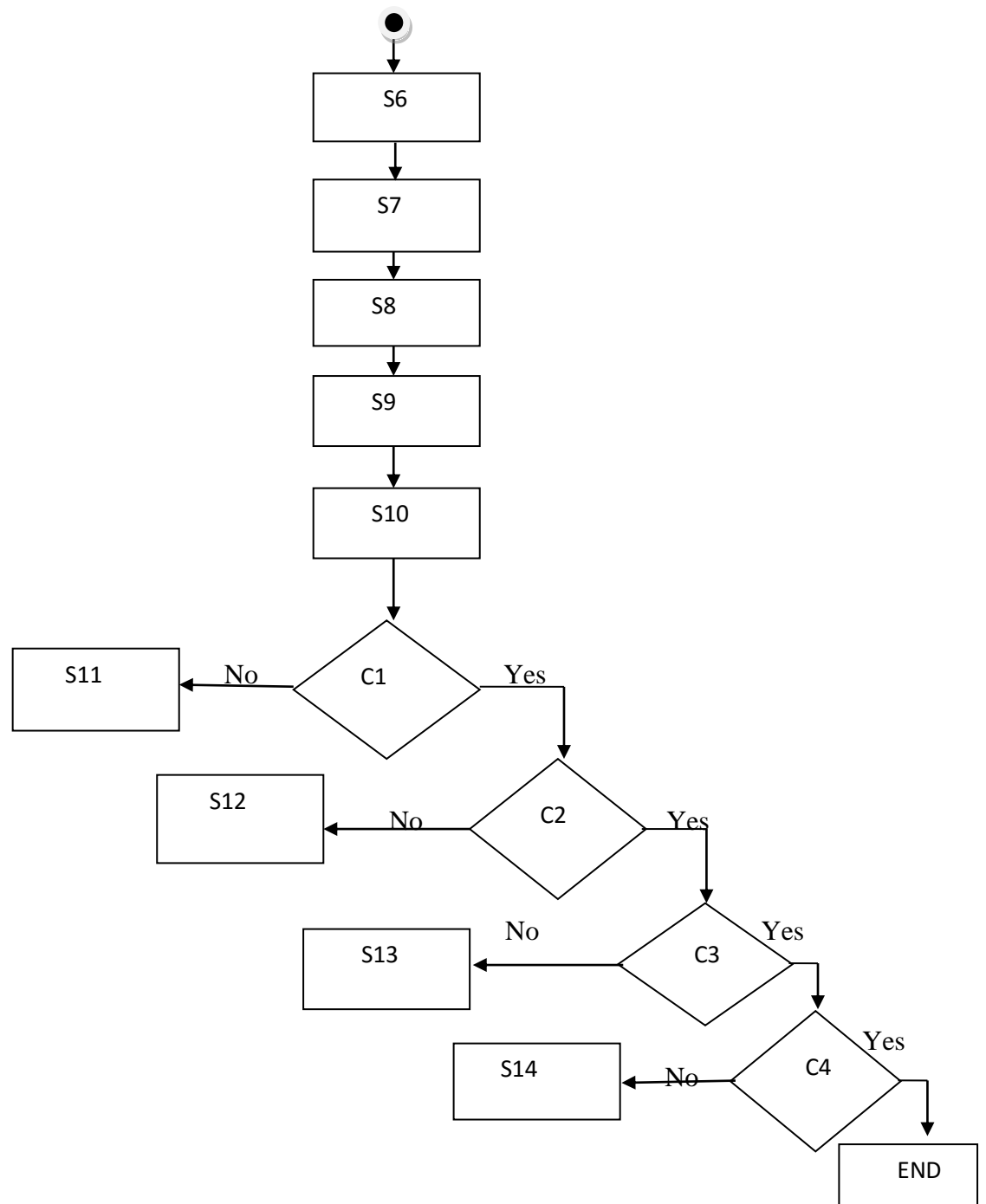


Fig 5.5 Flow Graph – Basic Path Testing

Path 1	S1-S2-S3-S4-S5-S6-S7-S8-S9-S10-C1-S11
Path 2	S1-S2-S3-S4-S5-S6-S7-S8-S9-S10-C2-S12
Path 3	S1-S2-S3-S4-S5-S6-S7-S8-S9-S10-C3-S13
Path 4	S1-S2-S3-S4-S5-S6-S7-S8-S9-S10-C4-S14

Cyclomatic complexity is a source code complexity measurement that is being correlated to a number of coding errors. It is calculated by developing a Control Flow Graph of the code that measures the number of linearly-independent paths through a program module.

Lower the program's cyclomatic complexity, lower the risk to modify and easier to understand. It can be represented using the below formula:

$$\text{Cyclomatic complexity} = E - N + P,$$

Where,

E = number of edges in the flow graph.

N = number of nodes in the flow graph.

P = number of nodes that have exit points.

The Cyclomatic complexity is calculated using the above control flow diagram that shows twenty nodes (shapes) and twenty one edges (lines), hence the cyclomatic complexity is derived as.

$$\begin{aligned} \text{Cyclomatic complexity} &= 21 - 20 + 1 \\ &= 10 \end{aligned}$$

CHAPTER 6

CONCLUSION & FUTURE ENHANCEMENT

6.1 Conclusion:

Thus the Report builder provides an interface between User and the system. The application reads Excel book data and Database record then generate the Report from user request to the web server.

6.2 Future Enhancement

This system can further be enhanced by including the following are

Up until now the builder is developed only for student purposes. This report builder can be extensively developed for an organization or for the whole college including staff, employees, library, and Accounts data and others can also be used in this report builder.

CHAPTER 7

APPENDICES

7.1 Sample screens

FIG 7.1.1 Index page

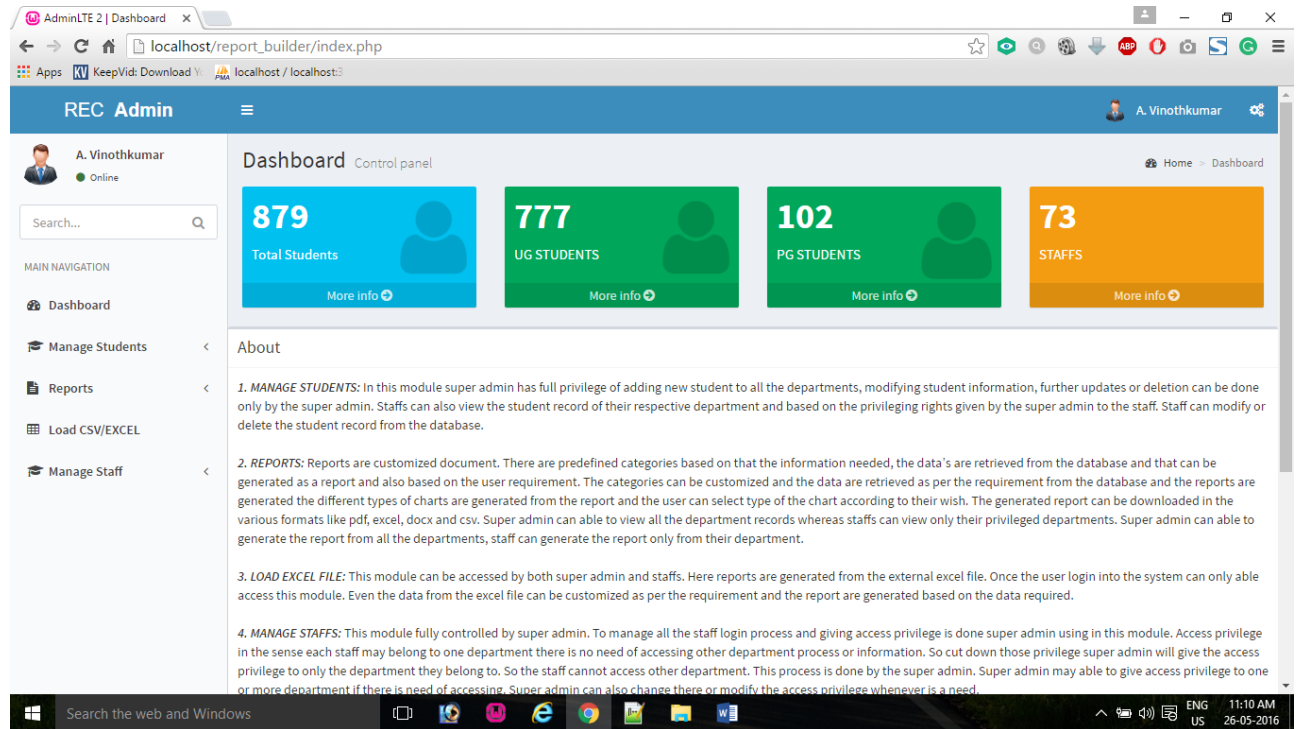


FIG 7.1.1: Index page

FIG 7.1.2 Login page

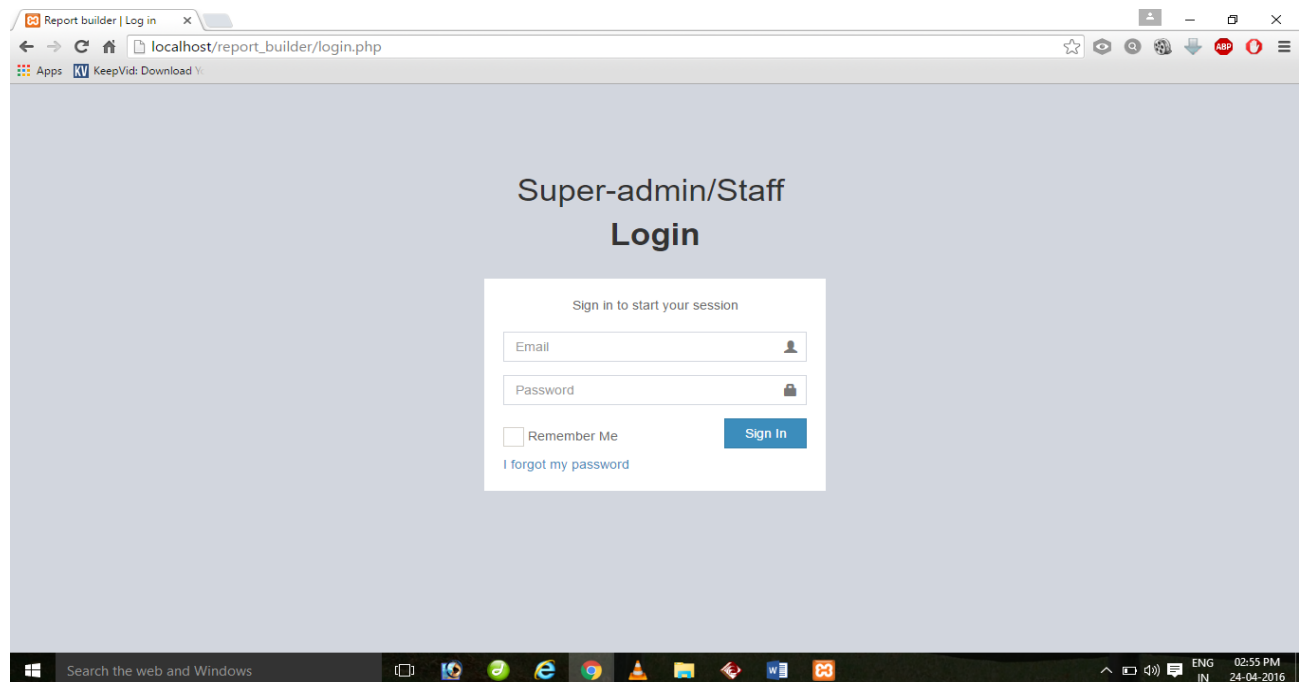


FIG 7.1.2: Login page

FIG 7.1.3 Manage student (add student record):

REC Admin

A. Vinothkumar
Online

Search...

MAIN NAVIGATION

Dashboard

Manage Students

Add new Student Record

View Student Record

University Result

Reports

Load CSV/EXCEL

Manage Staff

Manage Students

Add Student Record

Home > Manage Students > Add Student Record

Add Student Record

Step 1 of 4 (Admission/Personal Details)

Admission No *

2013252

Date Of Admission*

23/08/2013

Admission-Quota *

Counselling

Rollno *

201308002

FirstName *

Balakumar

LastName *

B

Gender *

☒ Male ☐ Female ☐ Others

Date of Birth *

23/02/1993

Religion *

Hindu

Community *

BC

Nationality *

Indian

Blood Group *

B+

Mother's maiden Name

Rajeshwari Selvaraj

Mother's Name *

Rajeshwari Balaguru

Father's Name *

Balaguru S

Parent's Income*

Rs. 18,000.00

Mother Tongue *

Tamil

Languages-Known

English

Language 2

Next →

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Version 1.0

FIG 7.1.3: Manage students (add student record)

FIG 7.1.4 View student:

REC Admin A. Vinothkumar

Manage Students View Student Record Home > Manage Students > View Student Record

View Student mca Search

Show 10 entries Search:

Branch	Batch	Admission No	Rollno	Student Name	Email	Functions
Computer Application	2012	123450	201308002	BalakumarB	Balakumar1@gmail.com	Edit Delete
Computer Application	2013	123451	201308003	DevarajuluB	Devarajulu2@gmail.com	Edit Delete
Computer Application	2012	123452	201308004	DhivyaT	Dhivya3@gmail.com	Edit Delete
Computer Application	2016	234	201308005	DhineshR	dhineshsiva555@gmail.com	Edit Delete
Computer Application	2013	123454	201308007	GajalakshmiS	Gajalakshmi5@gmail.com	Edit Delete
Computer Application	2014	123457	201308008	JayalakshmiR	Jayalakshmi8@gmail.com	Edit Delete
Computer Application	2015	123460	201308010	LakshmiS	Lakshmi11@gmail.com	Edit Delete
Computer Application	2015	123462	201308011	NithyaK	Nithya13@gmail.com	Edit Delete
Computer Application	2014	123473	201308013	VaniP	Vani24@gmail.com	Edit Delete
Computer Application	2012	123469	201308014	SuganyaM	Suganya20@gmail.com	Edit Delete

Showing 1 to 10 of 26 entries

Previous 1 2 3 Next

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FIG 7.1.4: View student

FIG 7.1.5 Create Staff Login:

REC Admin A. Vinothkumar

Manage staffs create staff login access

Create Staff Login Process

Staff login info

Working-Type: ☒ Teaching ☐ Non-Teaching

Department: Mechanical Engineering(ME)

Staff: Maayavan (21016, AP(SG))

Username: maayavan_21016

Password: maayavan_21016

Access Rights: Add Edit Delete View Dept-Permission

Manage-students: ☐ Add ☒ Edit ☐ Delete ☒ View ☐ All ☒ Own Communication System

Access Rights: Show with Customize Show without Customize Hide Dept-Permission

Reports: ☐ Show with Customize ☒ Show without Customize ☐ Hide ☐ All ☐ Own Select a dept

Create Send Email Clear

Staff Login details Created Successfully ! for Maayavan (21016, AP(SG)) at Thursday, May 26th, 2016, 11:24:37 AM.

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FIG 7.1.4: Create staff Login

FIG 7.1.6 Customize Report:

REC Admin

Report

Customize Your Report

Home > Report > Customization

Search...

MAIN NAVIGATION

Dashboard

Manage Students

Reports

Community wise

Income wise

Blood Group wise

Religion Wise

City/State wise

Nationality wise

Remark (Blackmark)wise

Customize Report

Load CSV/EXCEL

Manage Staff

Customization your Report

Admission/Person/Contact Details

Rollno

From to

Gender

☐ Male
 ☐ Female
 ☐ Others

Religion

☐ Hindu
 ☐ Christian
 ☐ Islam
 ☐ Jain
 ☐ Sikhism

Community

☐ SC
 ☐ ST
 ☐ BC
 ☐ MBC
 ☐ Converted Christian from SC
 ☐ Denotified Community

Nationality

☐ Indian
 ☐ Foreigner

Blood-Grp

☐ A+
 ☐ A-
 ☐ B+
 ☐ B-
 ☐ AB+
 ☐ AB-
 ☐ O-
 ☐ O+

Mother Tongue

Select a Mother Tongue

Languages-Known

Languages Known

DOB

from to

Admission-No

From to

Admission-Date

from to

Admission Quota

☐ Counselling
 ☐ Management

Address

☐ Permanent address
 ☐ Present address

Country

Select a country

State

Select a state

District

Select a district

Current/Pervious Academic Details

Register No

From to

Degree

☐ UG
 ☒ PG

Course

☐ Master of Business Administration(MBA)
 ☐ Master of Engineering(ME)
 ☐ Master of Technology(M.Tech)
 ☒ Master of Computer Applications(MCA)

Branch

☒ Computer Application

Section

Select a section

Batch

From to

Join

☐ Regular
 ☐ Lateral Entry

Semester

☐ 1
 ☐ 2
 ☐ 3
 ☐ 4
 ☐ 5
 ☐ 6
 ☐ 7
 ☐ 8

CGPA

From to

prev-Degree

☐ X
 ☐ XII
 ☐ DIPLOMA
 ☐ UG

Yr of passing

From to

Percentage

From to

Prev-CGPA

From to

Submit

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FIG 7.1.6: Customize report

FIG 7.1.7 Reports:

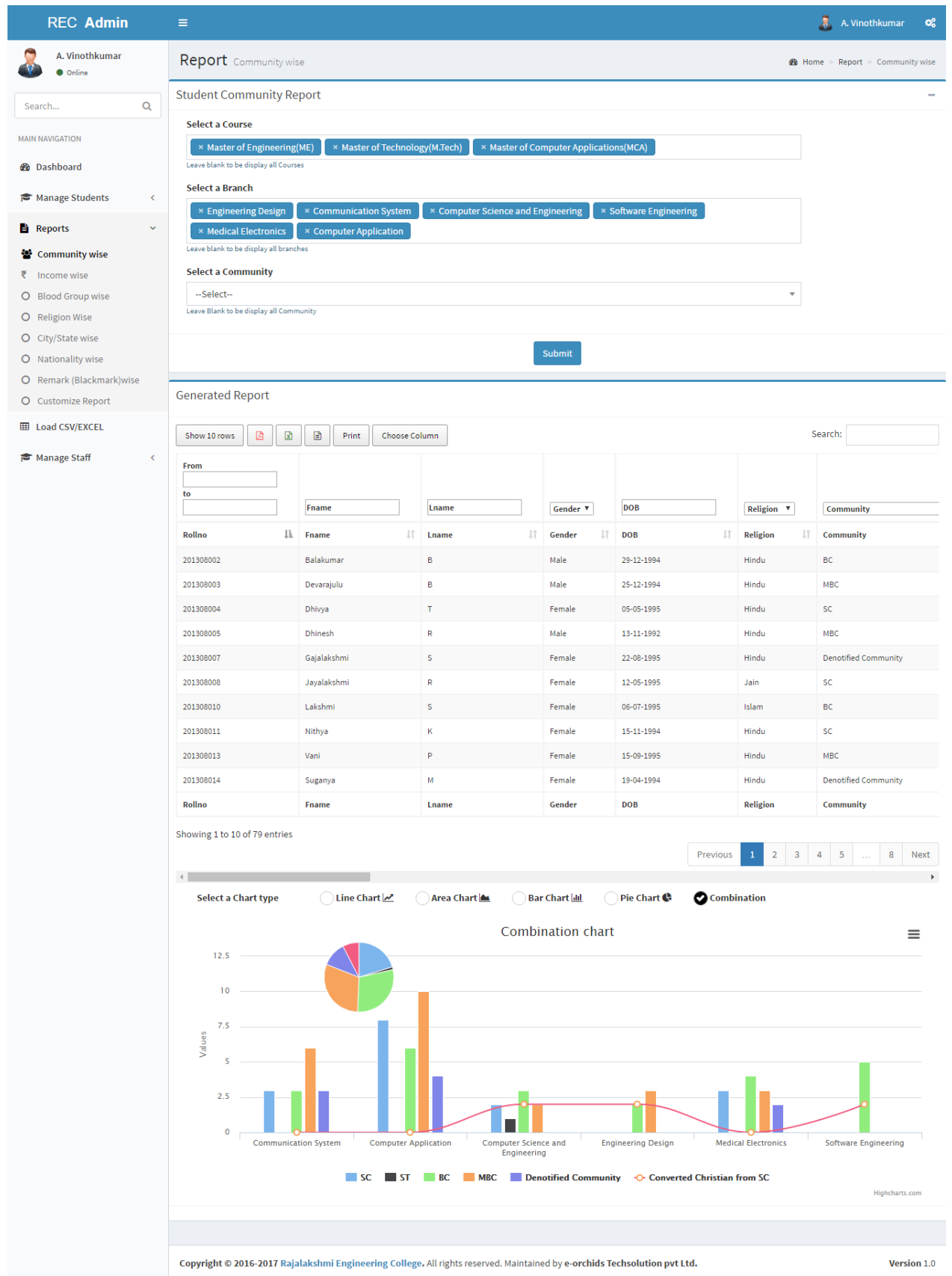


FIG 7.1.6: Reports

CHAPTER 8

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