

A  
PROJECT REPORT  
ON  
**“Student Visa Portal”**

Towards partial fulfilment of the requirement in  
**6<sup>th</sup> Semester BCA (2022-23)**

**Submitted by:**

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**Submitted To:-**



**Parul Institute of Computer Application,  
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**Under the guidance of**

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## Acknowledgment

*The success and outcome of this project required a lot of guidance and assistance from many people, and we are extremely privileged to have got this all along the completion of our project. All that we have done is only due to such supervision and assistance and we would not forget to thank them.*

*We respect and thank Dr Priya Swaminarayan, Dean, FITCS for providing us an opportunity to do the project work in BCA and giving us all support and guidance, which made us complete the project duly. We are extremely thankful to Ma'am for providing her support and guidance, although she had busy schedule managing the academic affairs.*

*We would not forget to remember Prof. Hina Chokshi, HOD, BCA department for her encouragement and more over for her timely support and guidance till the completion of our project work.*

*We owe our deep gratitude to our project guide Prof. Jay Panchal, who took keen interest on our project work and guided us all along, till the completion of our project work by providing all the necessary information for developing a good system.*

*We are thankful to and fortunate enough to get constant encouragement, support and guidance from our Parents, all Teaching staffs of BCA Department which helped us in successfully completing our project work. Also, we would like to extend our sincere esteems to all staff in laboratory for their timely support.*

***Janhavi Lall - 200510101065***



## **PARUL INSTITUTE OF COMPUTER APPLICATION**

### **CERTIFICATE**

This is to certify that Janhavi Lall the student(s) of Parul Institute of Computer Application, have satisfactorily completed the project entitled “Student Visa Portal” as a part of course curriculum in BCA semester- VI for the academic year 2022-2023 under guidance of Prof. Bharti Vani.

Enrolment Number: 200510101065

<b>Quality of work</b>	<b>Grade</b>	<b>Sign of Internal guide</b>
<b>Poor/Average/ Good / Excellent/ Outstanding</b>	<b>B / B+ / A / A+ / O</b>	

Date of submission:

HOD,

**Dr. Hina Chokshi**

Principal,

**Dr. Priya Swaminarayan**

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# STUDENT VISA PORTAL

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## **1. Project Definition**

Our Project Definition “Visa Management System”.

## **2. Project Description**

Our Project is to develop a system to provide admission for students (as many as possible). This project is a full suite of service-oriented system designed to securely manage student counselling and applying application into the universities on behalf of the student.

The system will be exercising multiple functionalities such as Creating Lead, Add University, Add Course, Add Student, Exam, Create Application, Managing Staff and their Roles, Upload Document, and fees payment.

The system will be working as a bridge between the student and the university which benefit applicant to get admission in the desired university.

### **3. Existing / Legacy System**

The Existing/Legacy System holds bunch of features, mentioned below-

1. Registration and Sign-In Page
2. Dashboard
3. Lead Details
4. Add University
5. Course Details
6. Student Details
7. Exam Details
8. Staff Details
9. Role Details
10. Application Details
11. Upload document
12. Fees Payment

### **4. Problem Statements**

There are lots of Visa proving company in the market and some of them are working in offline mode. As there is competition in the market, this system needs to come in online mode and the mode of working will also become easy.

In today's world there are many students who wants to study abroad and in the best Universities for better knowledge, career, and lifestyle but they lack the direction to how they can achieve that goal in the most effective way and the other services they needed other than collage selection and admission.

## 5. Needs for New System

Nowadays everything is becoming online, there are lots of Visa Company which are still working on pen and paper for collecting the applicant's data. So, an online mode is necessary for any company to have an organized and secure data.

### **1. Establishing the company in online mode**

Earlier the company was in offline mode but after this the company will be able to work online also and will stand different in the market in the era of competition.

### **2. Secure and Organized Data**

The data will be in an organized manner and will be more secure, having security features, the data will be confidential.

### **3. Student guidance.**

Student can get counselling regarding their college admission.

## 6. Proposed System

Our Project is to develop a system to provide admission for students (as many as possible). This project is a full suite of service-oriented system designed to securely manage student counselling and applying application into the universities on behalf of the student.

The system will be working as a bridge between the student and the university which benefit applicant to get admission in the desired university.

The Proposed System holds bunch of features, mentioned below-

1. Registration and Sign-In Page
2. Dashboard
3. Lead Details
4. Add University
5. Course Details
6. Student Details
7. Exam details
8. Application Details
9. Staff Details
10. Role Details
11. Document Upload
12. Fees Payment

## 7. Scope

This system is made for the visa company so that the student can go and pursue their education in their desired university. The student just needs to give their all the details to the admin of the system and then the admin will create the application for the student and apply for it.

This kind of system is very useful for the education sector which provide coaching for the IELTS/TOEFL where they will give study material for the exam and along with it, the company can apply on behalf of student in the university where the student has maximum chance of admission.

## 8. Outcome

As the number of students pursuing education abroad is increasing day by day, the demand of Visa issuance has given more opportunities to the companies providing coaching for IELTS/TOEFL exams to focus on this business segment. And on the other hand, the company will be able to online manage the business.

The system will be working as a bridge between the student and the university in which they wish to study by providing them guidance and creating application on behalf of the student which will be send to the university.

## 9. Research

### 9.1. What is research?

Research is defined as careful consideration of study regarding a particular concern or problem using scientific methods. It is a systematic inquiry to describe, explain, predict and control the observed phenomenon. It involves inductive and deductive methods.

### 9.2. Types of Research Methodology

Research methods are broadly classified as Qualitative and Quantitative. Both methods have distinctive properties and data collection methods.

#### 9.2.1. Qualitative Methods

It is a method that collects data using conversational methods, usually open-ended questions. It helps a researcher to understand what participants think and why they think it in a particular way. Types of qualitative methods include:

- a. One-to-one interview
- b. Focus Groups
- c. Ethnographic studies
- d. Text Analysis
- e. Case Study

#### 9.2.2. Quantitative Methods

This method deals with numbers and measurable forms. It uses a systematic way of investigating events or data. It answers questions to justify relationships with measurable variables to either explain, predict or control a phenomenon. Types of quantitative methods include:

- a. Survey research
- b. Descriptive research
- c. Co-relational research

## 10. Feasibility Study

### What is Feasibility?

As the name implies, a feasibility analysis is used to determine the viability of an idea, such as ensuring a project is legally and technically feasible as well as economically justifiable. It tells us whether a project is worth the investment—in some cases, a project may not be doable. There can be many reasons for this, including requiring too many resources, which not only prevents those resources from performing other tasks but also may cost more than an organization would earn back by taking on a project that isn't profitable.

A well-designed study should offer a historical background of the business or project, such as a description of the product or service, accounting statements, details of operations and management, legal requirements, and tax obligations. Generally, such studies precede technical development and project implementation.

#### 10.1. Technical Feasibility

This assessment focuses on the technical resources available to the organization. It helps organizations determine whether the technical resources meet capacity and whether the technical team is capable of converting the ideas into working systems. Technical feasibility also involves the evaluation of the hardware, software, and other technical requirements of the proposed system. As an exaggerated example, an organization wouldn't want to try to put Star Trek's transporters in their building currently, this project is not technically feasible.

#### 10.2. Economic Feasibility

This assessment typically involves a cost/ benefits analysis of the project, helping organizations determine the viability, cost, and benefits associated with a project before financial resources are allocated. It also serves as an independent project assessment and enhances project credibility—helping decision-makers determine the positive economic benefits to the organization that the proposed project will provide.

#### 10.3. Operational Feasibility

Determine the viability, cost, and benefits associated with a project before financial resources are allocated. It also serves as an independent project assessment and enhances project credibility helping decision-makers determine the positive economic benefits to the organization that the proposed project will provide.

## **10.4. Importance of Feasibility Study**

A feasibility study is conducted to determine the success and minimize the risks related to the project. It is not merely project research, but a framework or a plan on how to establish and run a business successfully in the long run. It contains five essential components, including market research, financial research, management research, schedule determination, and technical research.

## **10.5. Feasibility Study of our Proposed System**

### **10.2.1. Technical Feasibility:**

- In this proposed system, technical feasibility depends on open-source tools and technologies.
- In this system technologies like LARAVEL, MySQL, Bootstrap is used.

### **10.2.2. Economic Feasibility:**

- Development Costs:  
The system is economically feasible as its costs nothing because all depend on open source.
- Production Costs:  
Hosting cost, operation, and maintenance cost including software and hardware upgrading.

### **10.2.3. Operational Feasibility:**

- System is used for counselling of student regarding course and university.
- Students needs to pay an amount and required document.
- Creating application for the student.
- And many more.

## 11. System Requirement Specifications

### 11.2. Introduction to SRS

#### 11.2.1. What is SRS?

A software requirements specification (SRS) is a description of a software system to be developed. It lays out functional and non-functional requirements and may include a set of use cases that describe user interactions that the software must provide.

#### 11.2.2. Need of SRS

To fully understand one's project, it is very important that they come up with a SRS listing out their requirements, how are they going to meet it and how will they complete the project. It helps the team to save upon their time as they can comprehend how are going to go about the project. Doing this also enables the team to find out about the limitations and risks early on.

#### 11.2.3. Abstract

Visa management system is a SaaS (Software as a Service) based system which help students to have counselling regarding the course and university they want to pursue and get admission. The admin will create a lead for the student and add the student in the system and then create an application on behalf of student which will be send to the university when the admission process will start. The system is having multiple functionalities. The student needs to upload the document and must pay an amount. The Super admin will view all the activity of the visa company. The system will be working as a bridge between the student and the university which benefits applicant to get admission in the desired university.

### 11.3. System Users

- **Admin:**

The admin will manage all the functionalities of the system from counselling the student, creating applications on the behalf of the student which will be send to the desired university, managing staff and their roles and many more.

- **Applicant:**

Applicant is the student which will be having counselling with the visa company. The student needs to register themselves and need to upload their required documents and they must need to pay an amount to the company for further procedure.

- **Super Admin**

Super Admin will view all the activity of the admin.

### 11.4. Modules

1. Registration and Sign-In Page
2. Dashboard
3. Create Lead
4. Add University
5. Course Finder
6. Student
7. Exam
8. Application
9. Staff Details
10. Role Details
11. Document Upload
12. Fees Payment

## 11.5. Modules Description

- 1. Registration and Sign-In Page:** The user needs to be registered and then they can login/sign-in to the page using username and password which will lead to the dashboard.
- 2. Dashboard:** User can redirect/visit to another page he/she wants to visit it to add information or to view the forms.
- 3. Lead:** The lead table will be made first which is an inquiry from the student for the visa process and the details about the student will be noted.
- 4. Add University:** In this module the admin will add the universities where their students had got admissions and to show the new applicant for reference.
- 5. Add Course:** The Admin will add the course name in which their student had got admissions, and this can be showed to the new applicant.
- 6. Student:** Admin will enroll the applicant into the system and the student will pay an amount which is needed.
- 7. Exam:** The Admin will add the exam details of the exam if given by the student.
- 8. Application:** The admin will create an application for the student which will be sent to the university in which the applicant is interested.
- 9. Staff Details:** This section will keep a record of the staff.
- 10. Role Details:** This section will keep record of staff designation.
- 11. Document:** The applicant needs to upload the required document.
- 12. Payment:** Applicant need to pay a minimum amount for application creation.

## 11.6. Hardware Requirements

Name of Components	Specification
Processor	Intel Core i3/i5
RAM	8GB/12GB
Hard Disk	512GB/1TB

Table 11.6.1 Hardware Requirements

## 11.7. Software Requirements

Name of Components	Specification
Operating System	Windows XP, Windows 10
Software development Kit	VISUAL STUDIO CODE
Tools & languages	PHP (LARAVEL - 8), HTML, CSS, BOOTSTRAP, MYSQL

Table 11.7.1 Software Requirements

## **11.8. Process Model**

The Process Model defines the fundamental steps that takes place during the development of the website till the web hosting. There are numerous process models used by people to build software and Web sites. However, the most basic process model used should be familiar to most people at least in spirit, as it is deductive, or more simply, "top-down". Following the top-down method, a Web project begins with the big picture and narrows down to the specific steps necessary to complete the site. Thus, the model starts first with a planning stage, then a design phase, then implementation and testing, and ends with a maintenance phase. The phases might appear to be distinct steps, but the progress from one stage to another might not always be obvious.

### **11.8.1. Planning and Requirement Analysis**

Requirement analysis is the most important and fundamental stage in SDLC. It is performed by the senior members of the team with inputs from the customer, the sales department, market surveys and domain experts in the industry. This information is then used to plan the basic project approach and to conduct product feasibility study in the economical, operational, and technical areas.

### **11.8.2. Defining Requirements**

Once the requirement analysis is done the next step is to clearly define and document the product requirements and get them approved from the customer or the market analysts. This is done through an SRS (Software Requirement Specification) document which consists of all the product requirements to be designed and developed during the project life cycle.

### **11.8.3. Designing**

A design approach clearly defines all the architectural modules of the product along with its communication and data flow representation with the external and third-party modules (if any). The internal design of all the modules of the proposed architecture should be clearly defined with the minutest of the details in DDS (Design Document specification).

#### **11.8.4. Coding and Implementation**

Developers must follow the coding guidelines defined by their organization and programming tools like compilers, interpreters, debuggers, etc. are used to generate the code. Laravel, MySQL, Bootstrap is used to build this system.

#### **11.8.5. Testing**

This stage is usually a subset of all the stages as in the modern SDLC models, the testing activities are mostly involved in all the stages of SDLC. However, this stage refers to the testing only stage of the product where product defects are reported, tracked, fixed, and retested, until the product reaches the quality standards defined in the SRS.

#### **11.8.6. Coding and Implementation**

Developers must follow the coding guidelines defined by their organization and programming tools like compilers, interpreters, debuggers, etc. are used to generate the code. Different high level programming languages such as C, C++, Pascal, Java and PHP are used for coding. The programming language is chosen with respect to the type of software being developed.

#### **11.8.7. Testing**

This stage is usually a subset of all the stages as in the modern SDLC models, the testing activities are mostly involved in all the stages of SDLC. However, this stage refers to the testing only stage of the product where product defects are reported, tracked, fixed and retested, until the product reaches the quality standards defined in the SRS.

#### **11.8.8. Maintenance**

Once the product is tested and ready to be deployed it is released formally in the appropriate market. Sometimes product deployment happens in stages as per the business strategy of that organization. The product may first be released in a limited segment and tested in the real business environment (UAT- User acceptance testing).

### 11.9. Timeline Chart

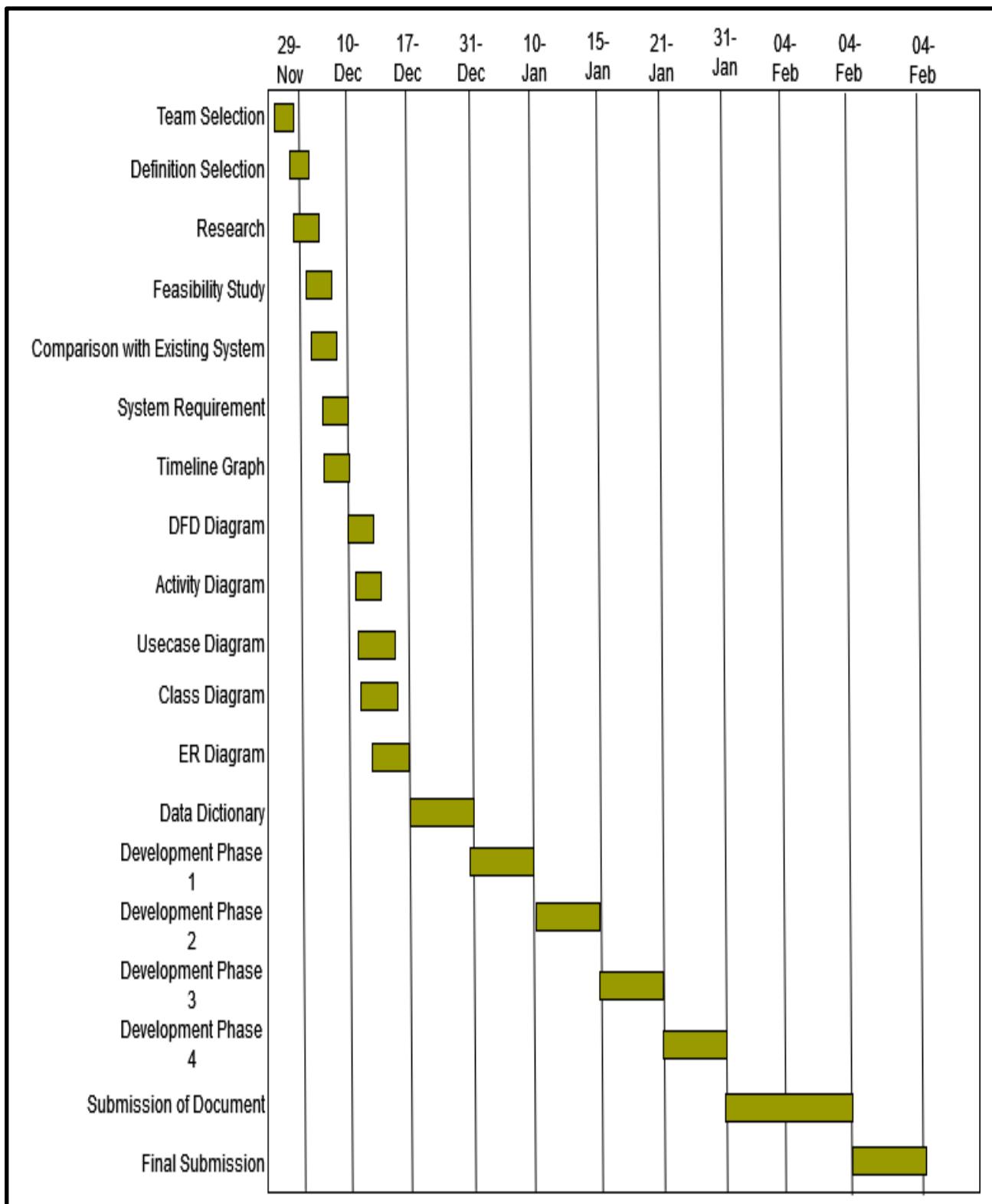


Diagram 11.9 Timeline Chart

## 12. Technology Description

In the development of this proposed system HTML, CSS, BOOTSTRAP, LARAVEL - 8 and MySQL is used. HTML, CSS, and BOOTSTRAP is used to make the layouts i.e., the frontend of the system whereas LARAVEL is used for backend. LARAVEL is a free and open-source PHP web framework and intended for the development of web applications following Model-View-Controller architectural pattern. MySQL is used for database.

### 12.1. Features & Limitations of New System

Features	Limitations
Lead Section	Sign in option from different social media handler is not available.
University Section	
Course Section	
Enrol Student	
Shortlisting	

Table 12.1. Features and Limitations of New System

### 13. Flow Chart

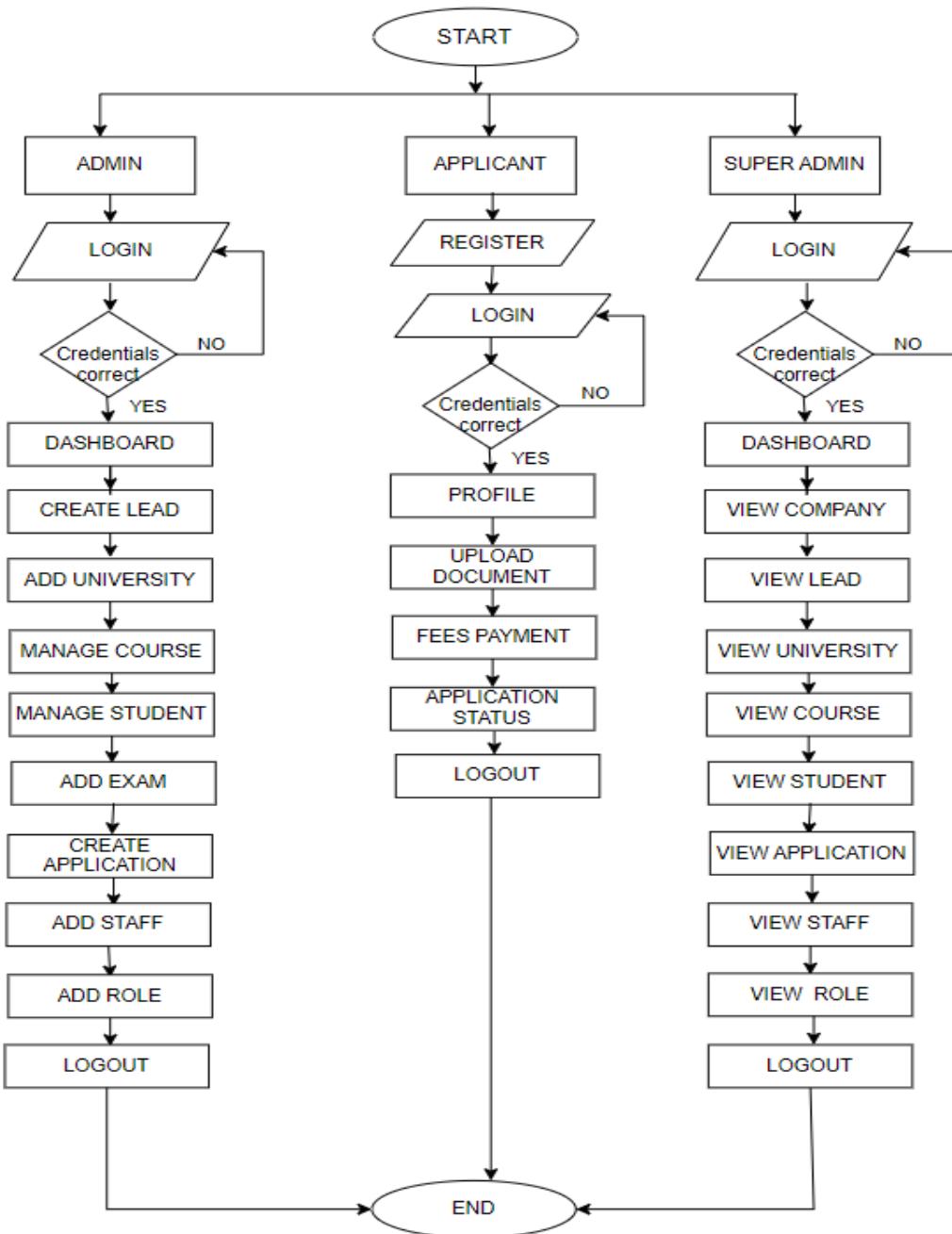


Diagram 13. Flowchart of Visa Management System

## 14. Data Flow Diagrams

### 14.1. Context Level Diagram (Level 0):

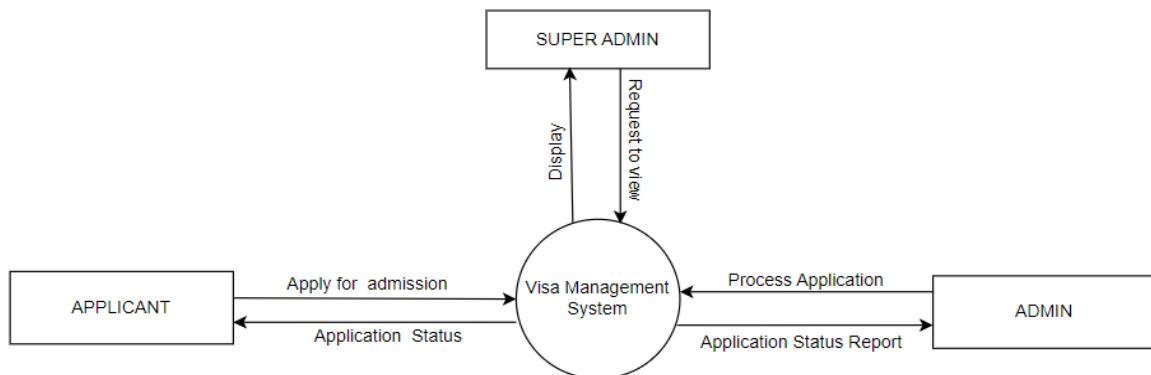


Diagram 14.1 Data Flow Diagram (Level 0)

## 14.2. Level 1 DFD

### 14.2.1. Level 1 DFD (Super Admin):

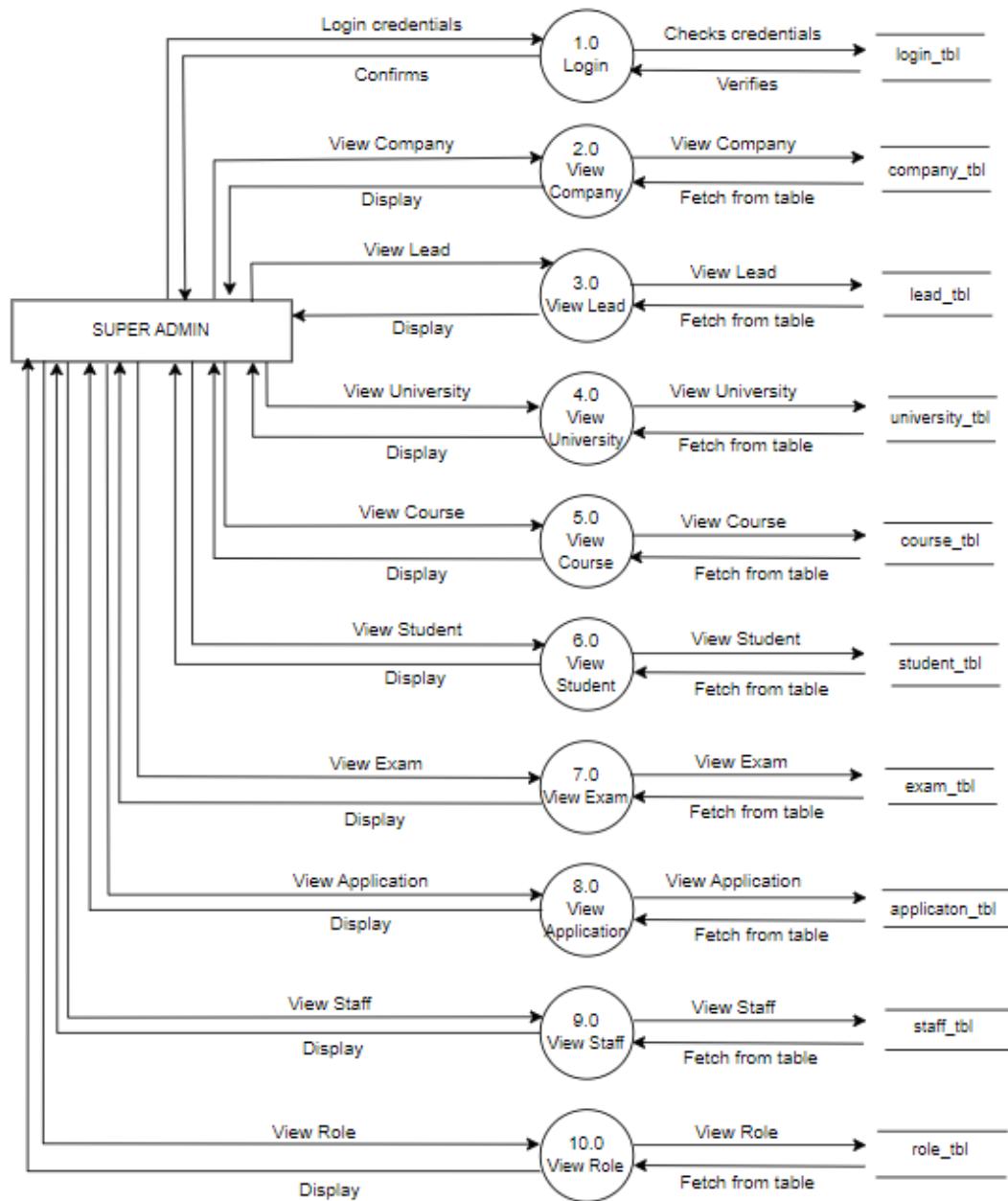


Diagram 14.2.1 Data Flow Diagram of Super Admin (Level 1)

### 14.2.2. Level 1 DFD (Admin):

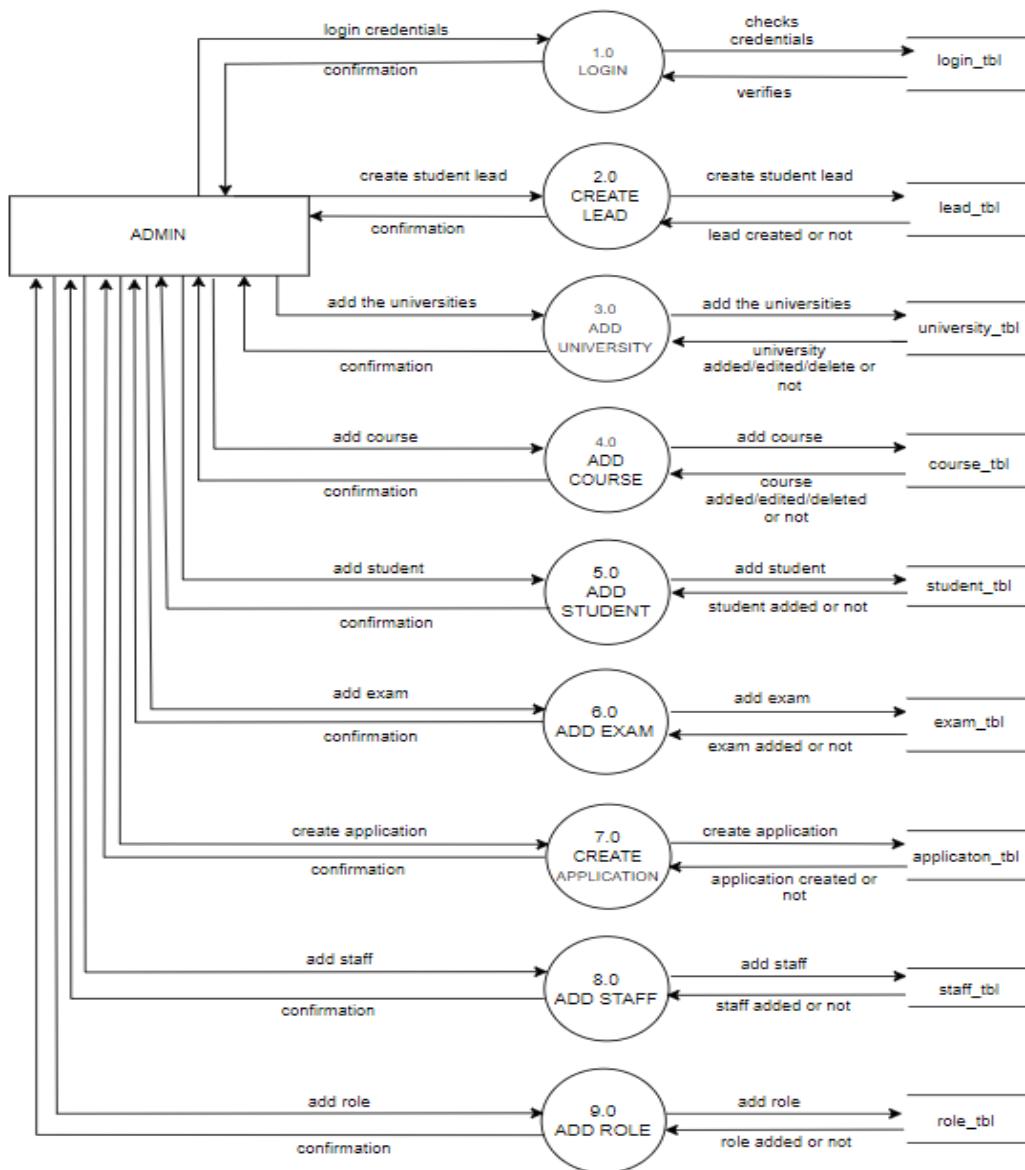


Diagram 14.2.2. Data Flow Diagram of Admin (Level 1)

### 14.2.3. Level 1 DFD (Student)

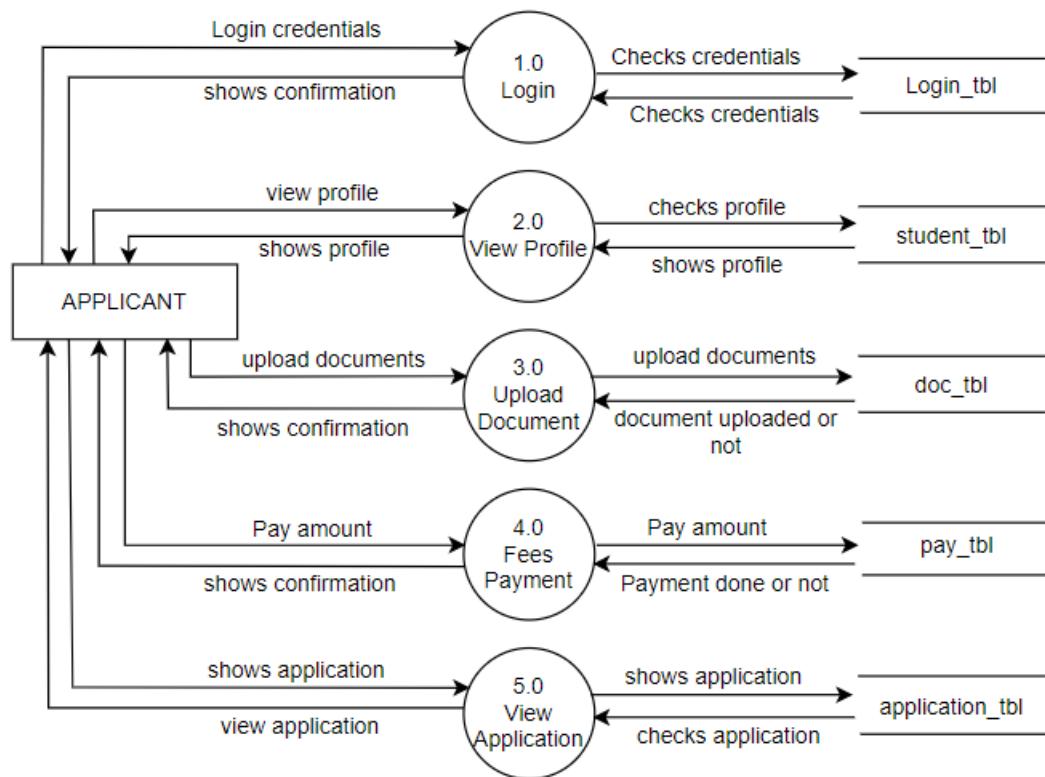


Diagram 14.2.3. Data Flow Diagram of Student (Level 1)

### 14.3. Level 2 DFD

#### 14.3.1. Level 2 DFD of Add Lead

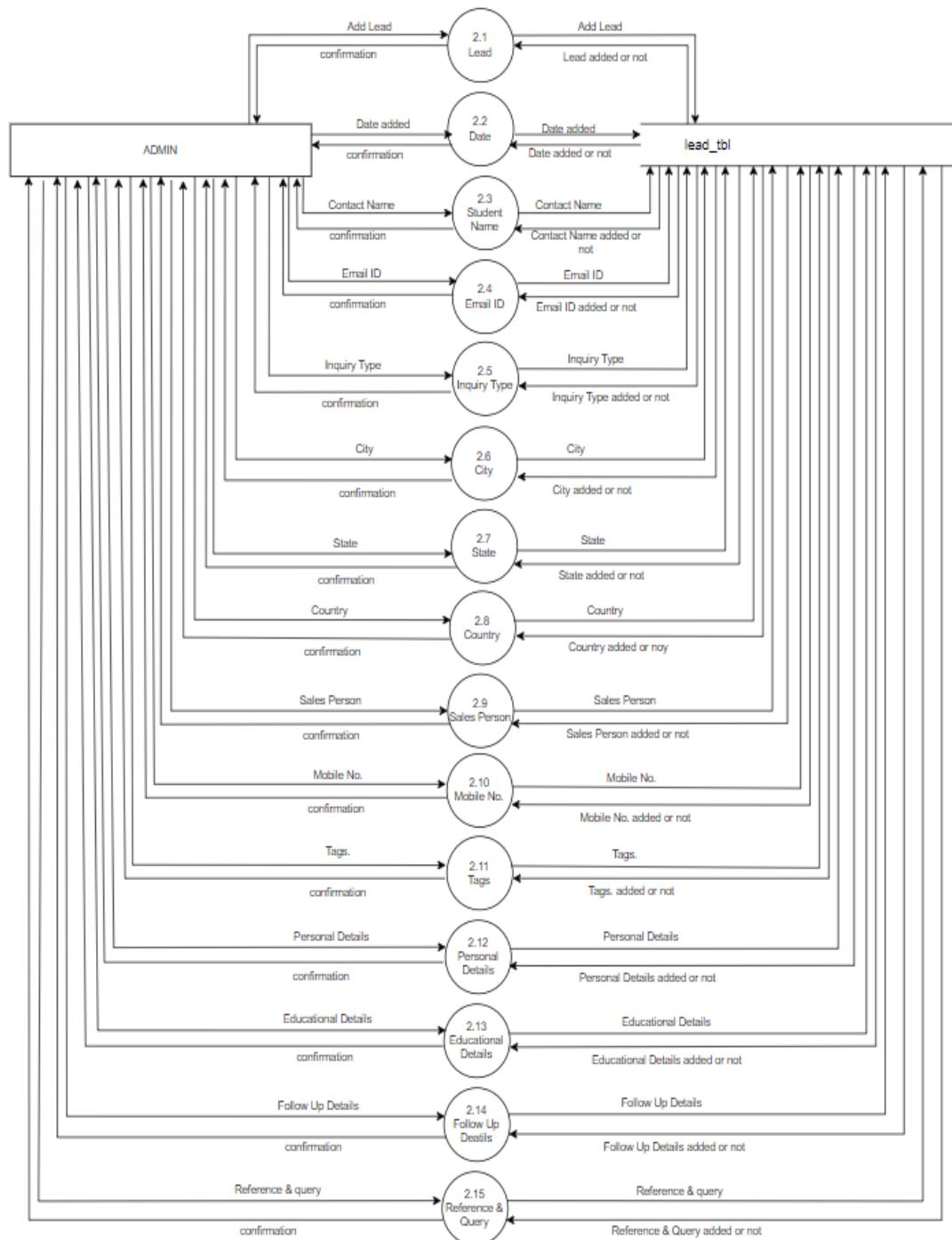


Diagram 14.3.1. Data Flow Diagram of Add Lead (Level 2)

### 14.3.2. Level 2 DFD of Add University

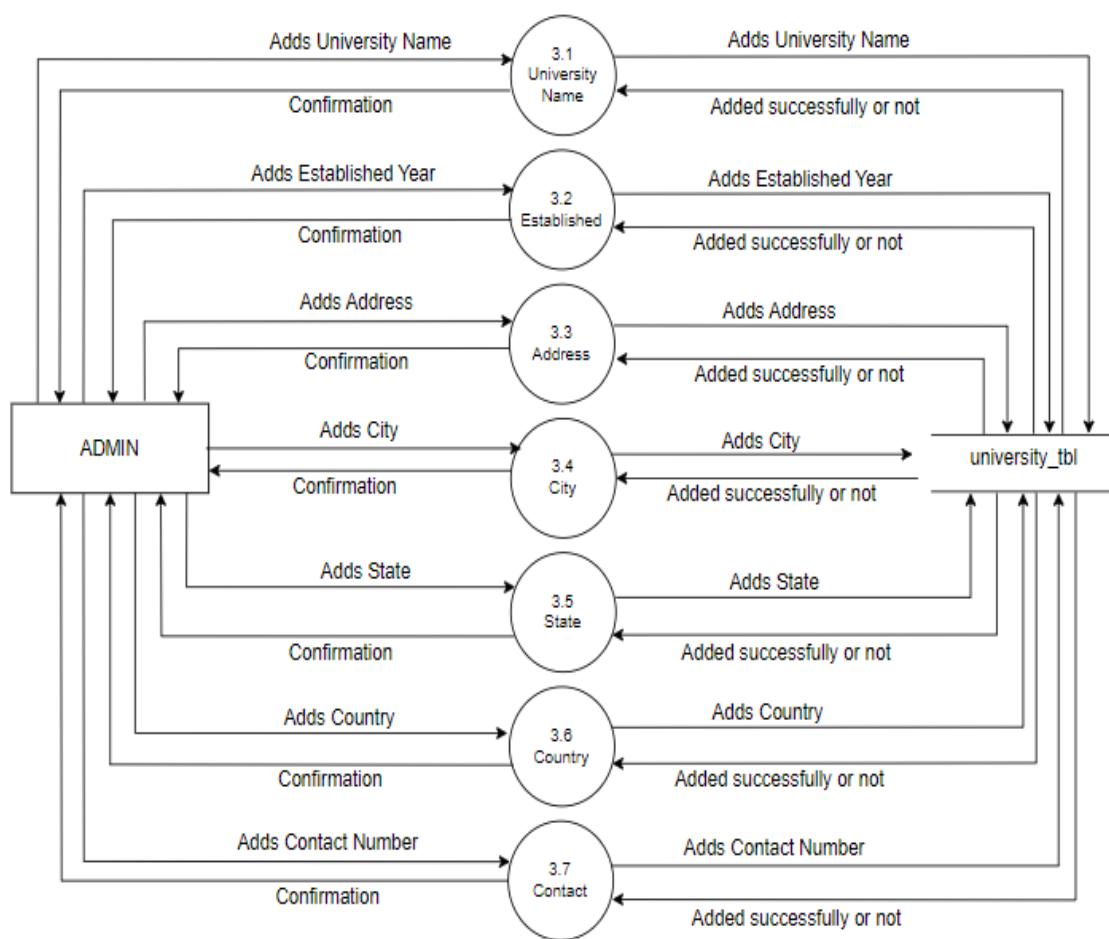


Diagram 14.3.2. Data Flow Diagram of Add University (Level 2)

### 14.3.3. Level 2 DFD Add Course:

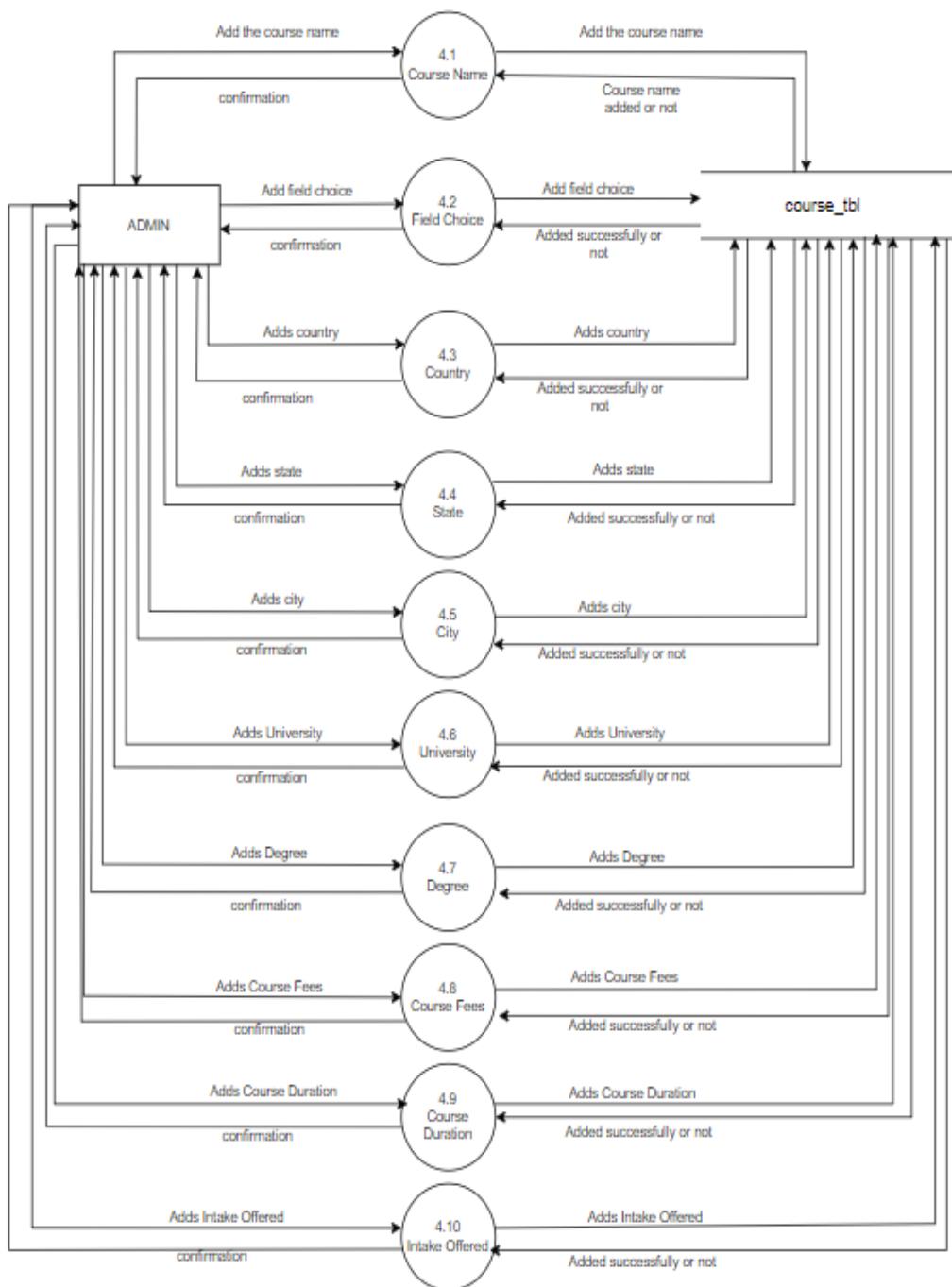


Diagram 14.3.3. Data Flow Diagram of Add Course (Level 2)

#### 14.3.4. Level 2 DFD of Add Student:

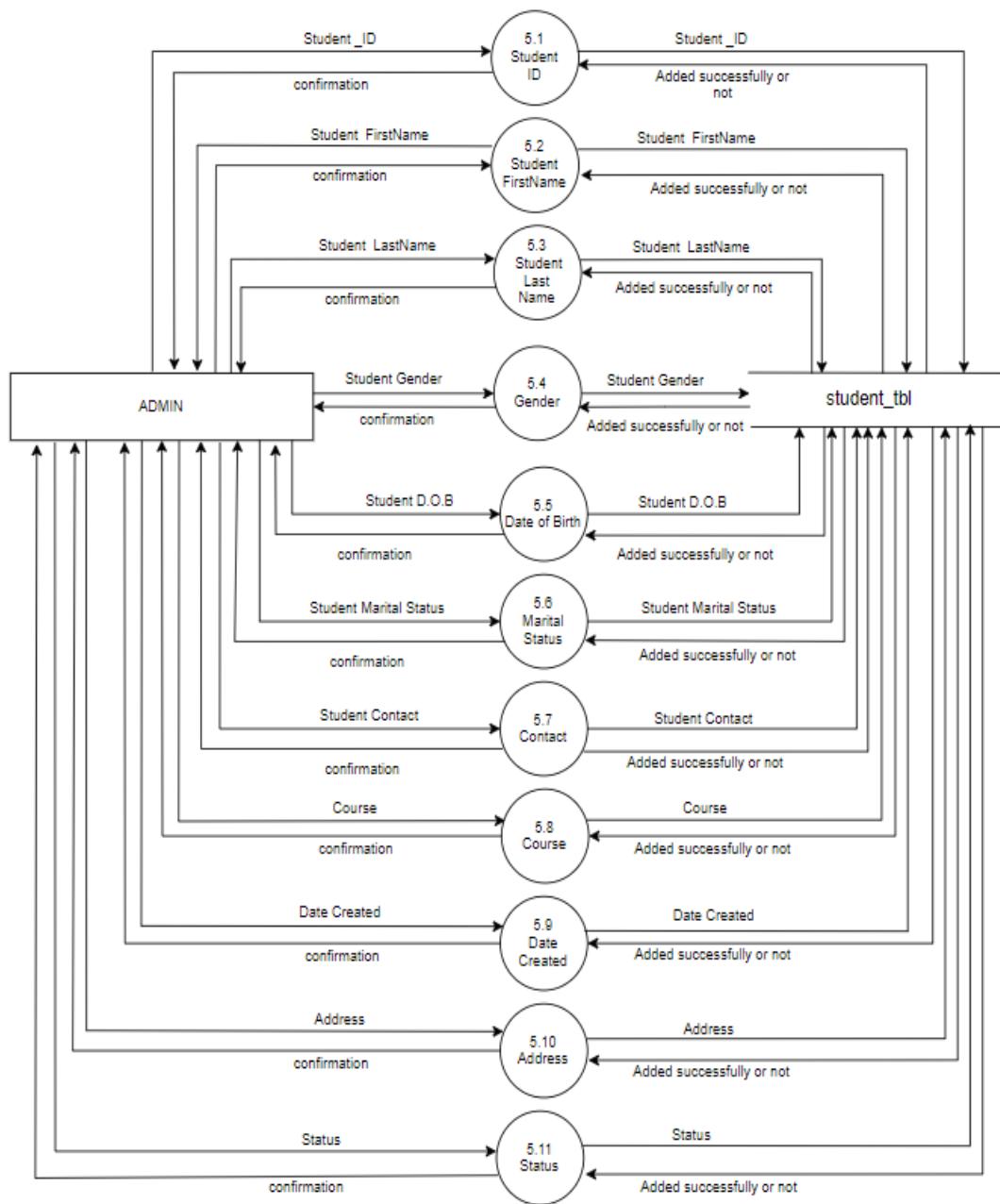


Diagram 14.3.4. Data Flow Diagram of Add Student (Level 2)

### 14.3.5. Level 2 DFD of Add Exam:

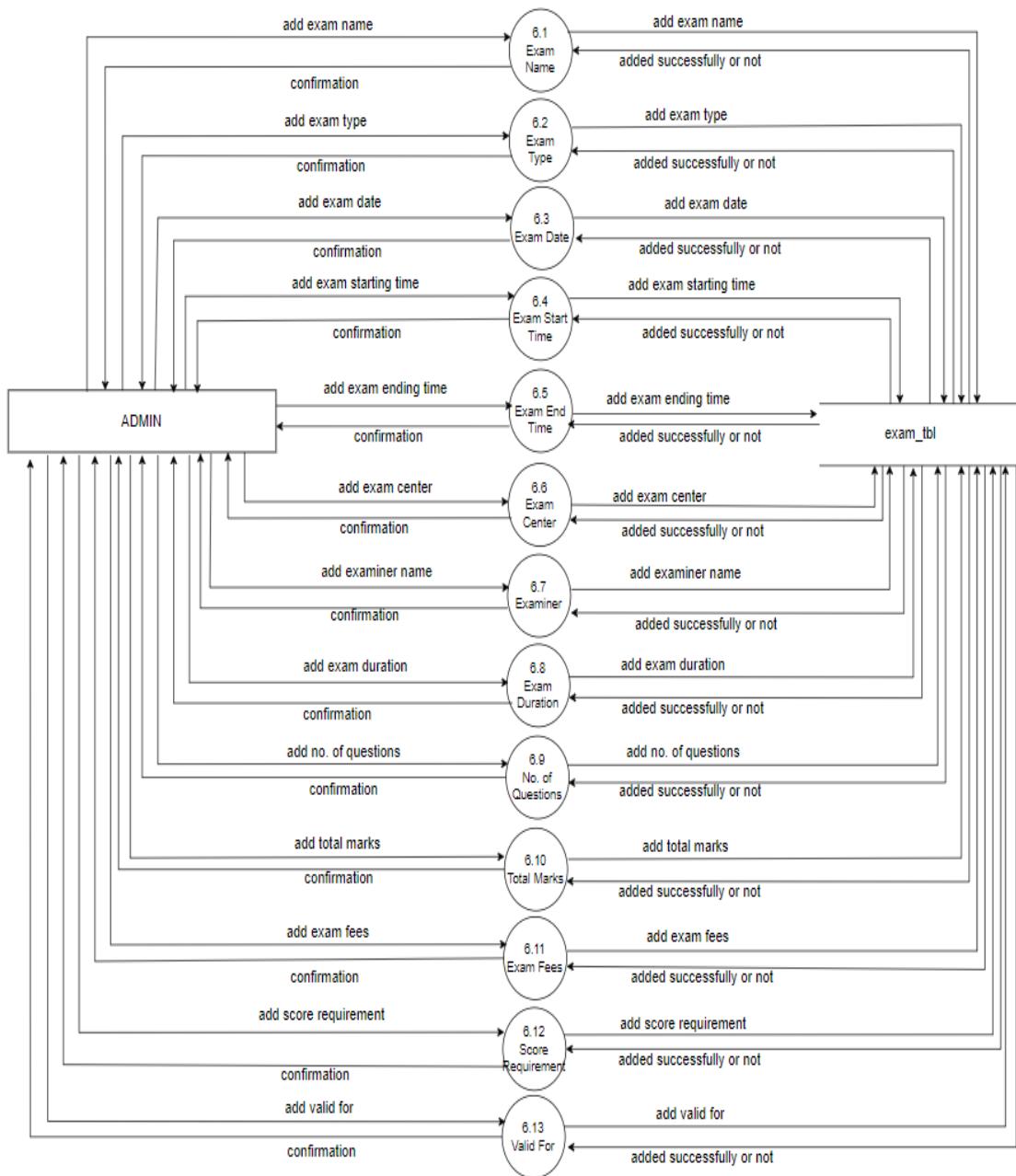


Diagram 14.3.5. Data Flow Diagram of Add Exam (Level 2)

#### **14.3.6. Level 2 DFD of Create Application**

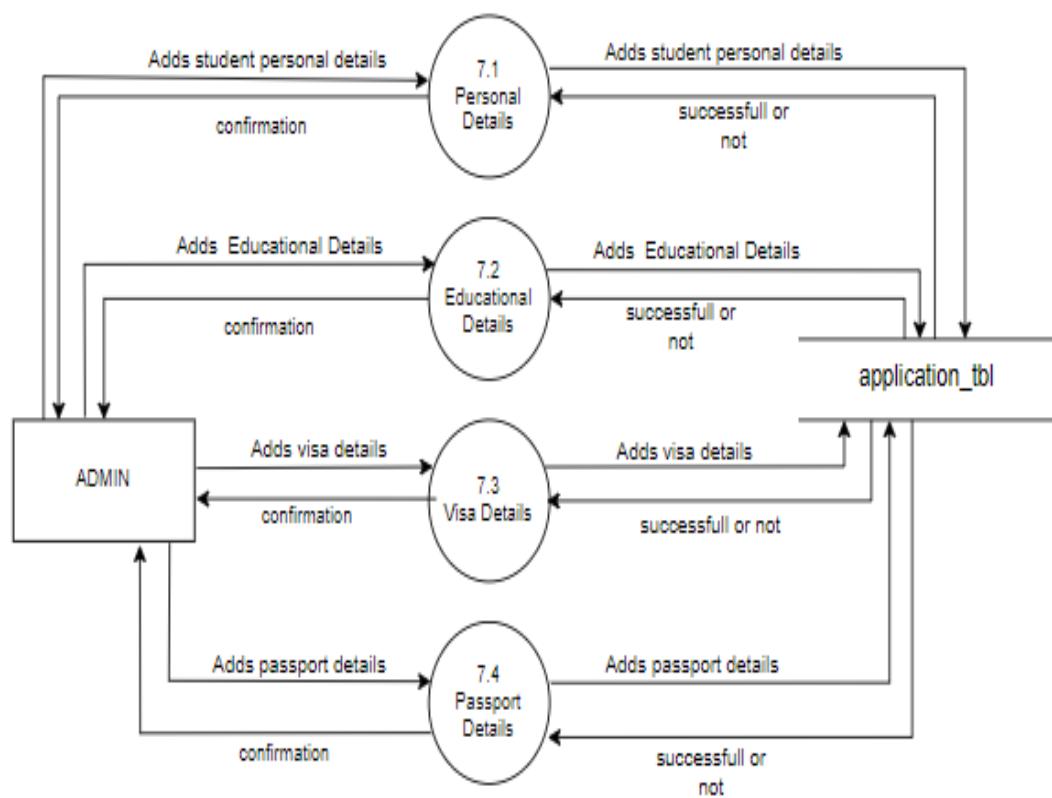


Diagram 14.3.6. Data Flow Diagram of Create Application (Level 2)

### 14.3.7. Level 2 DFD of Add Staff:

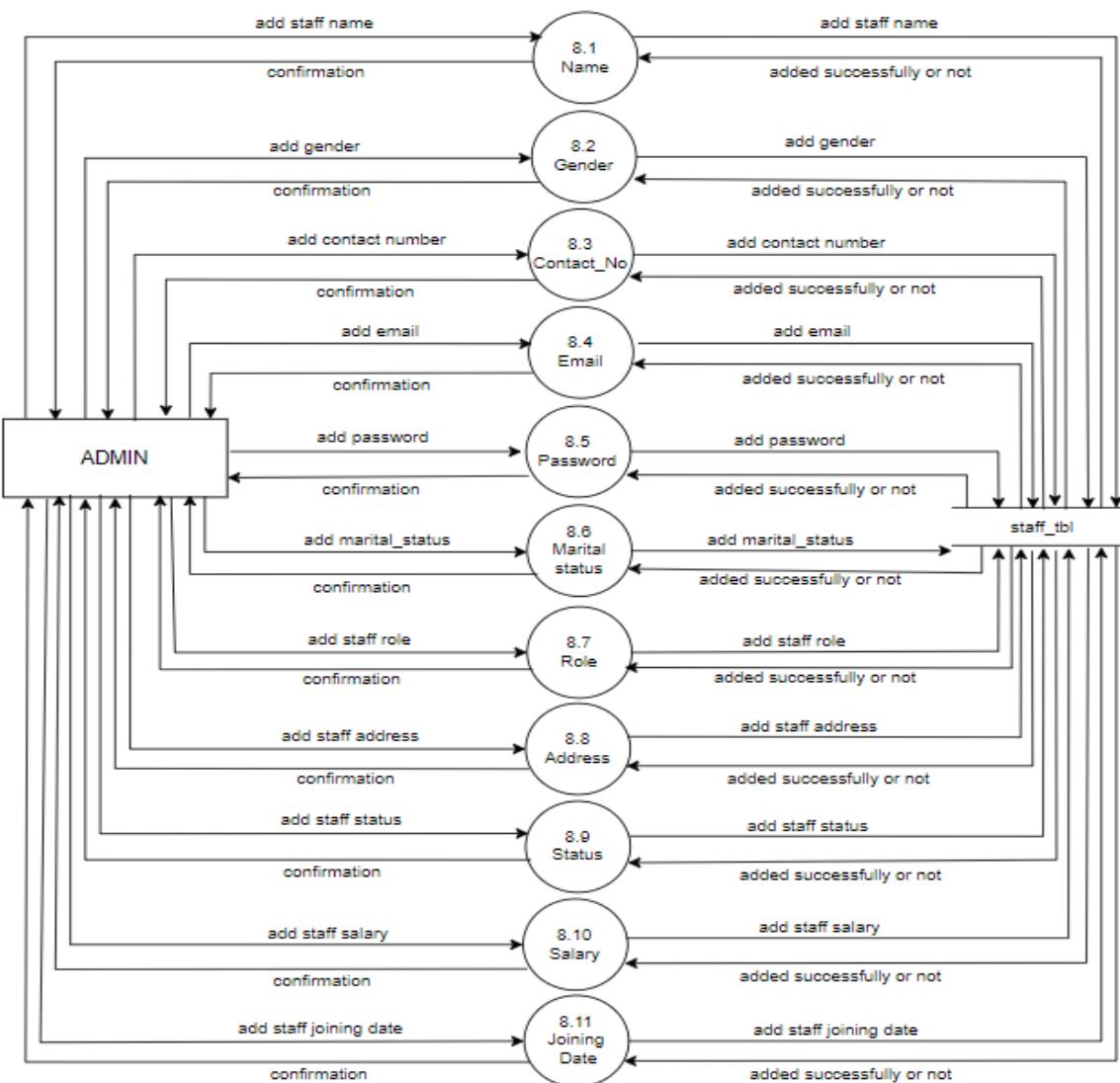


Diagram 14.3.7. Data Flow Diagram of Add Staff (Level 2)

#### 14.3.8. Level 2 DFD of Add Role:

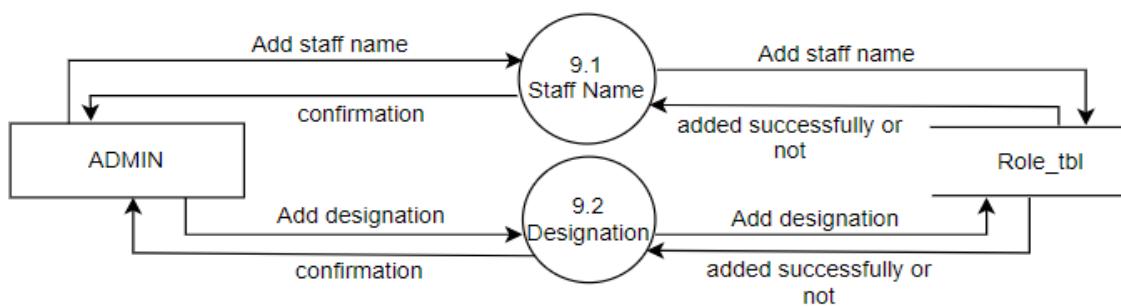


Diagram 14.3.8. Data Flow Diagram of Add Role (Level 2)

#### 14.3.9. Level 2 DFD of Upload Document:

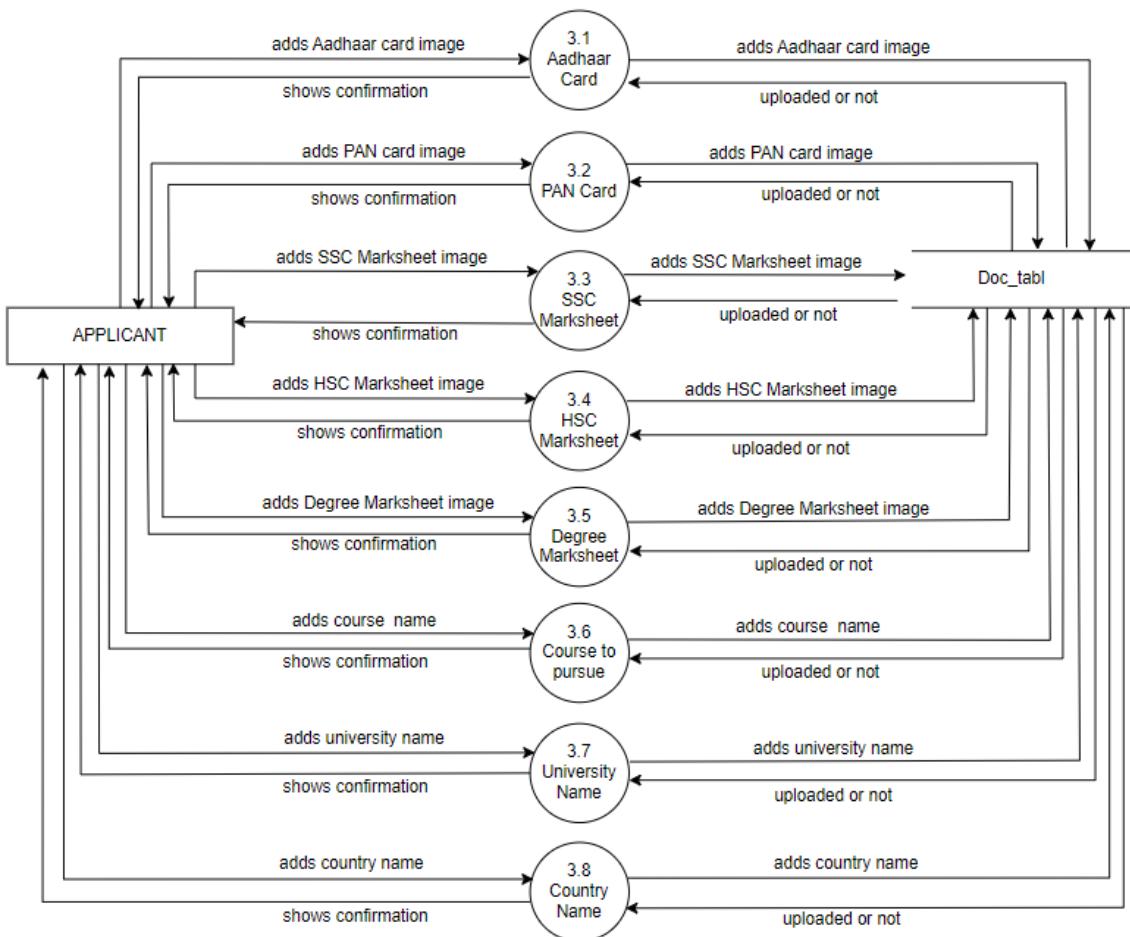


Diagram 14.3.9. Data Flow Diagram of Upload Document (Level 2)

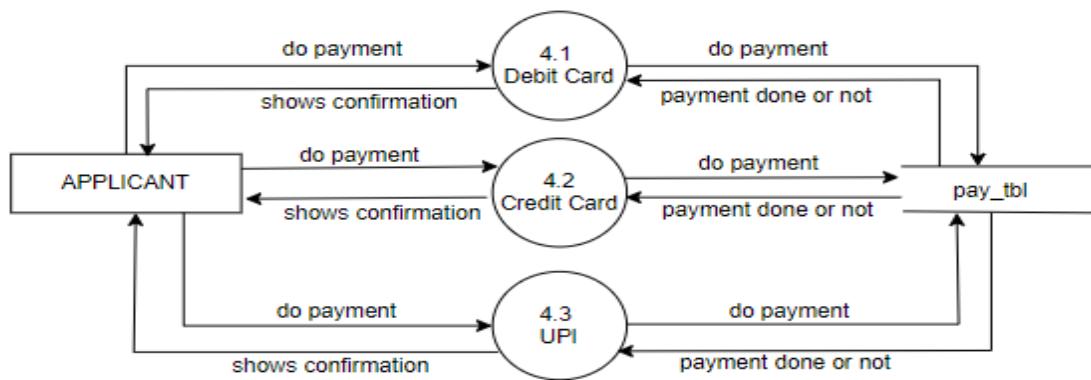
**14.3.10. Level 2 DFD of Payment:**

Diagram 14.3.10. Data Flow Diagram of Payment (Level 2)

## 14.4. Level 3 DFD

### 14.4.1. Level 3 DFD of Add Lead (Personal Details)

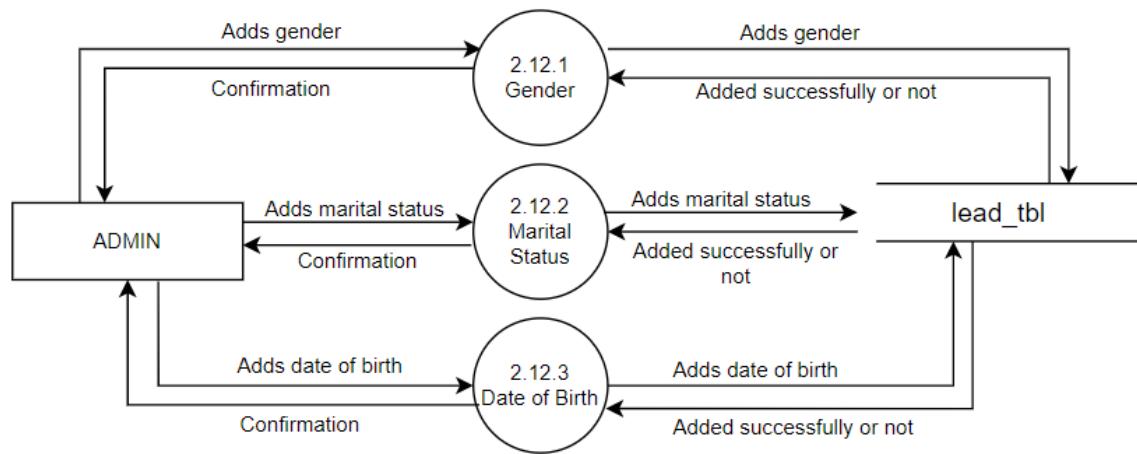


Diagram 14.4.1. Data Flow Diagram of Personal details of Add Lead (Level 3)

### 14.4.2. Level 3 DFD of Add Lead (Educational Details)

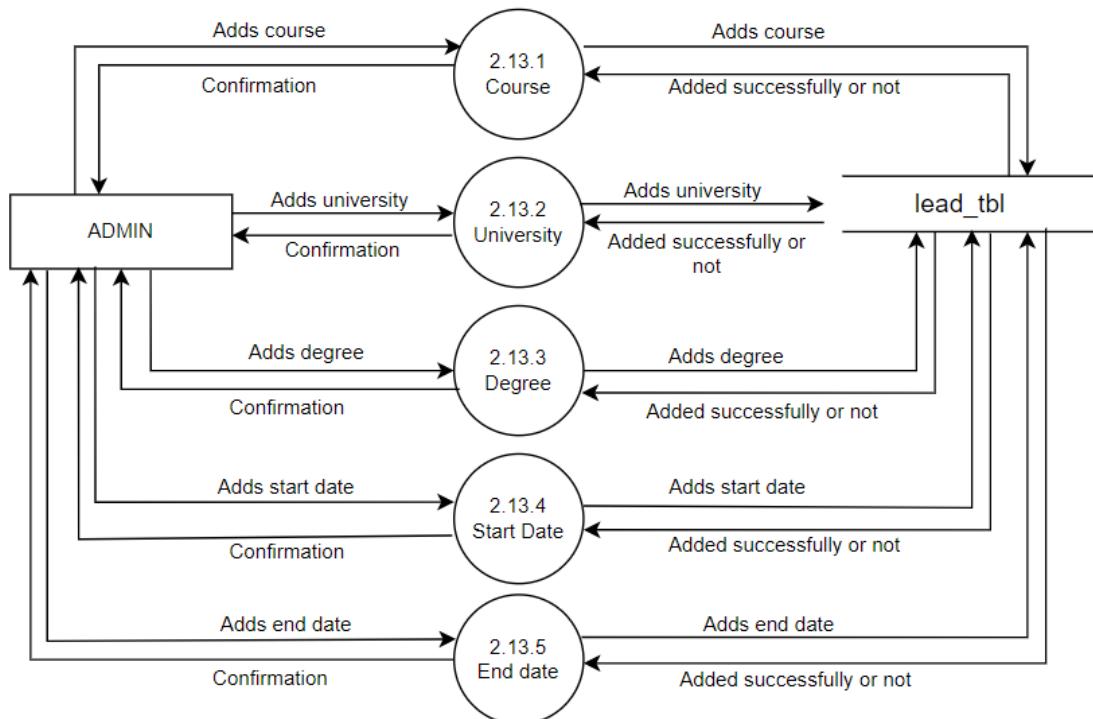


Diagram 14.4.2. Data Flow Diagram of Educational details of Add Lead (Level 3)

#### 14.4.3. Level 3 DFD of Add Lead (Follow Up Details)

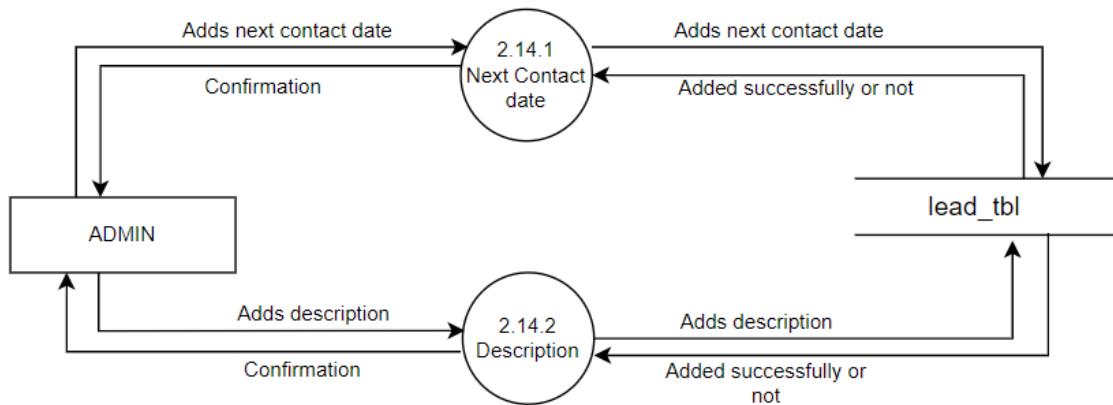


Diagram 14.4.3. Data Flow Diagram of Follow up details of Add Lead (Level 3)

#### 14.4.4. Level 3 DFD of Add Lead (Reference & Query)

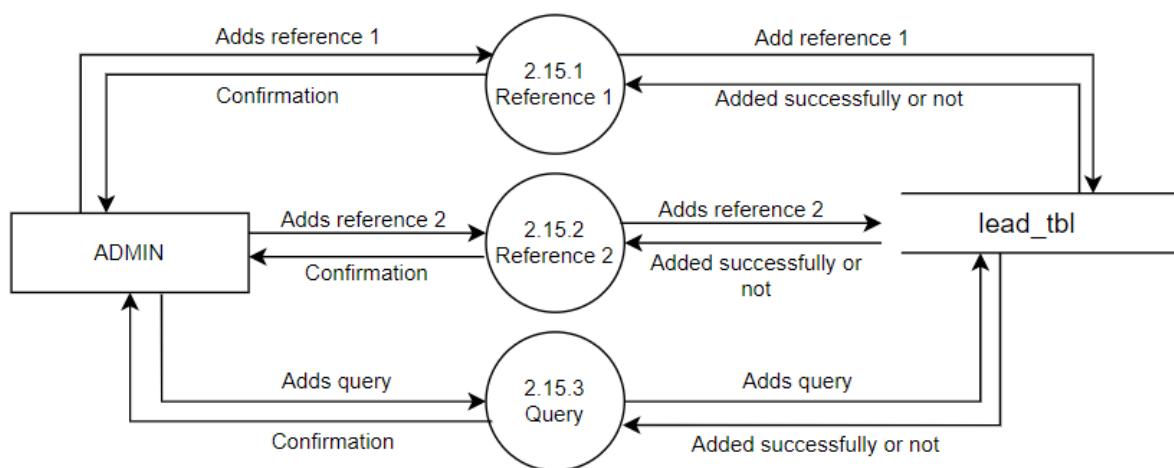


Diagram 14.4.4. Data Flow Diagram of Reference & Query of Add Lead (Level 3)

#### 14.4.5. Level 3 DFD of Create Application (Personal Details)

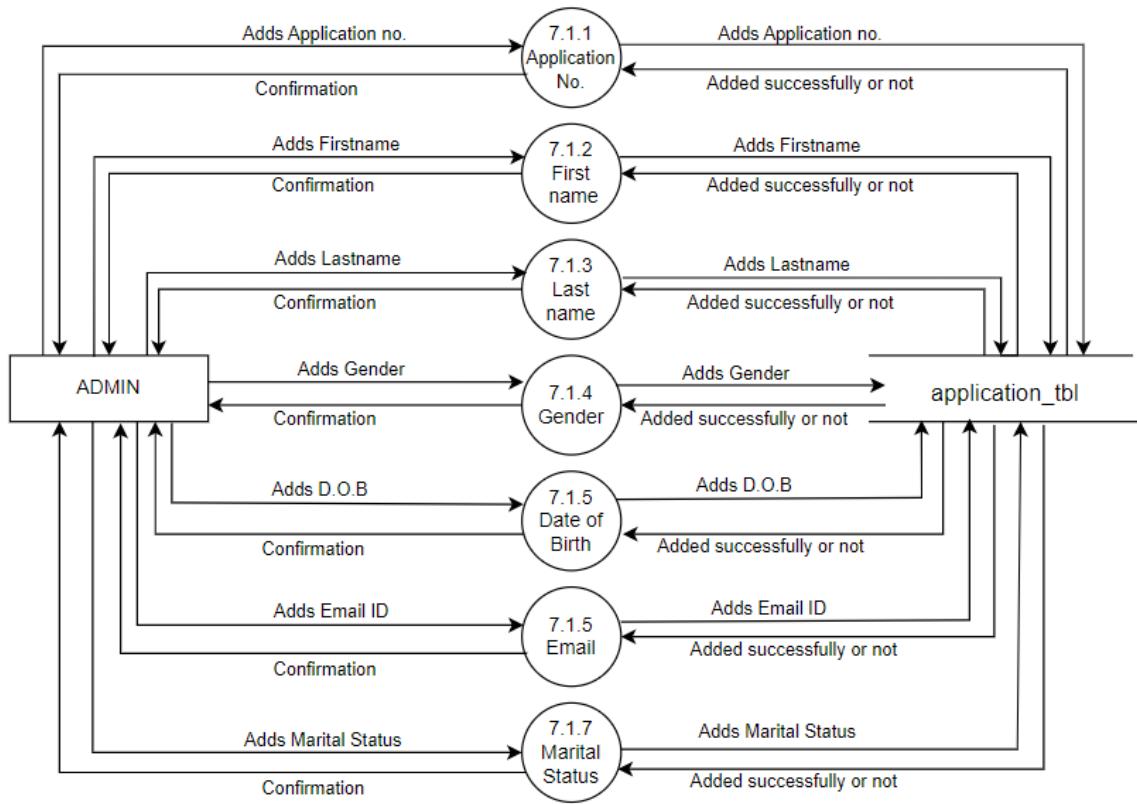


Diagram 14.4.5. Data Flow Diagram of Personal details of Create Application (Level 3)

#### 14.4.6. Level 3 DFD of Create Application (Educational details)

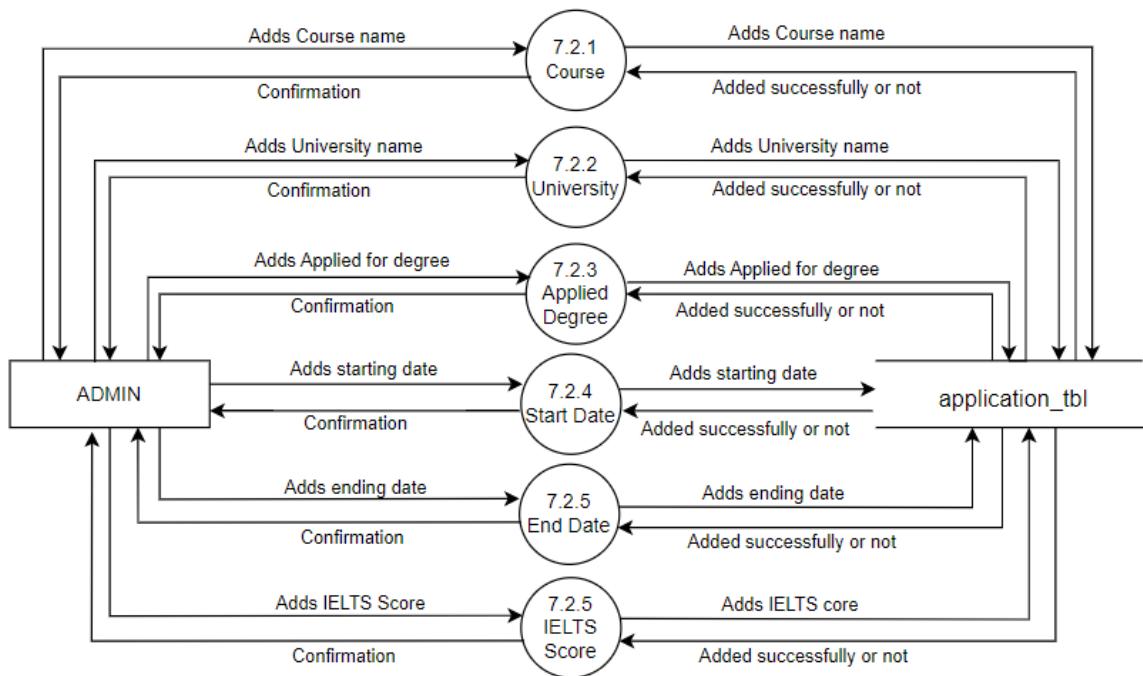


Diagram 14.4.6. Data Flow Diagram of Educational details of Create Application (Level 3)

#### 14.4.7. Level 3 DFD of Create Application (Visa Details)

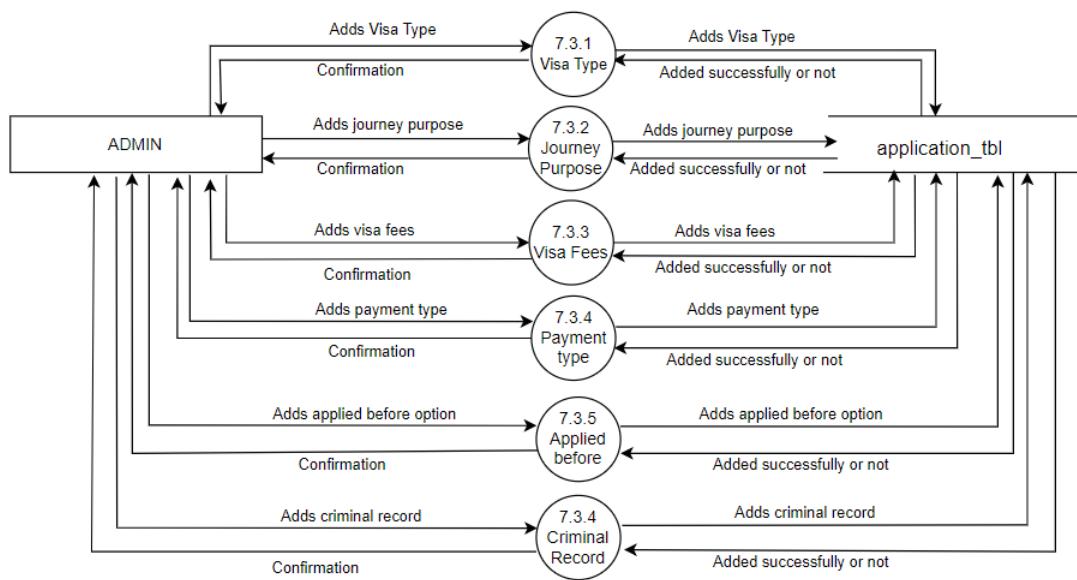


Diagram 14.4.7. Data Flow Diagram of Visa details of Create Application (Level 3)

#### 14.4.8. Level 3 DFD of Create Application (Passport details)

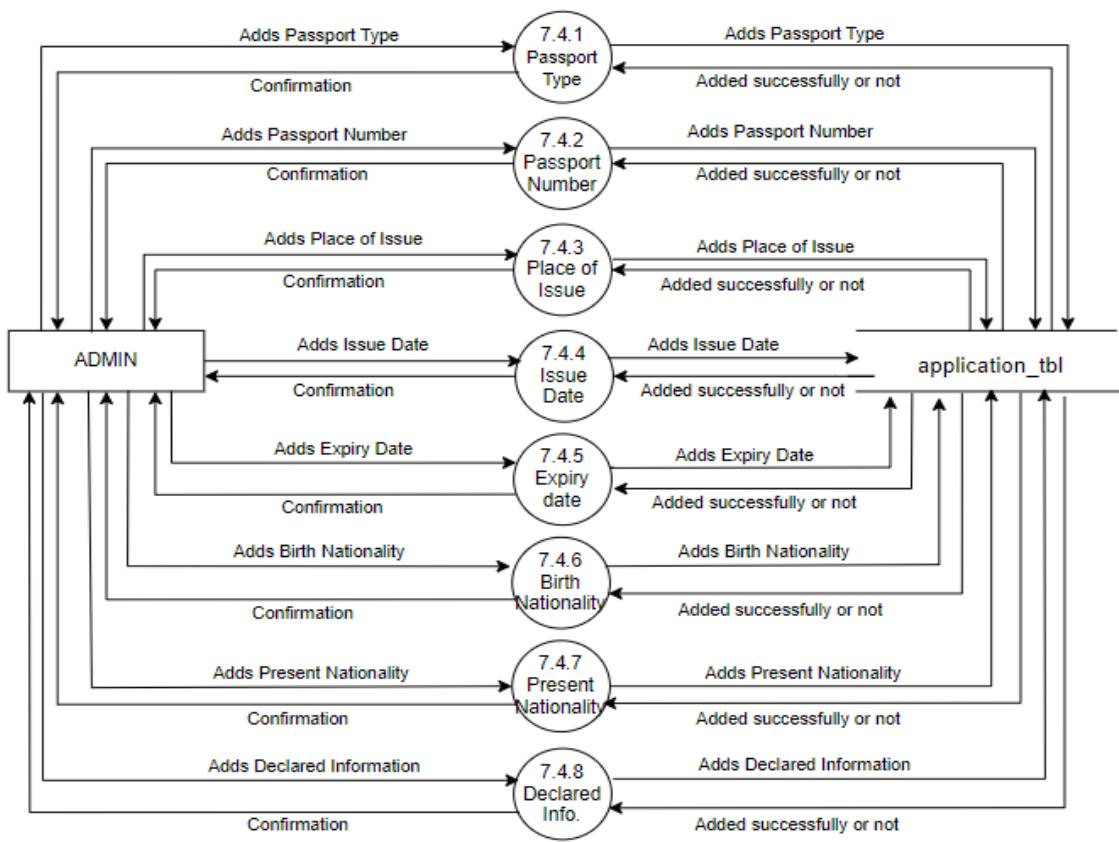


Diagram 14.4.8. Data Flow Diagram of Passport details of Create Application (Level 3)

## 15. Use Case Diagrams

### 15.3. Use Case Diagram (Admin Side)

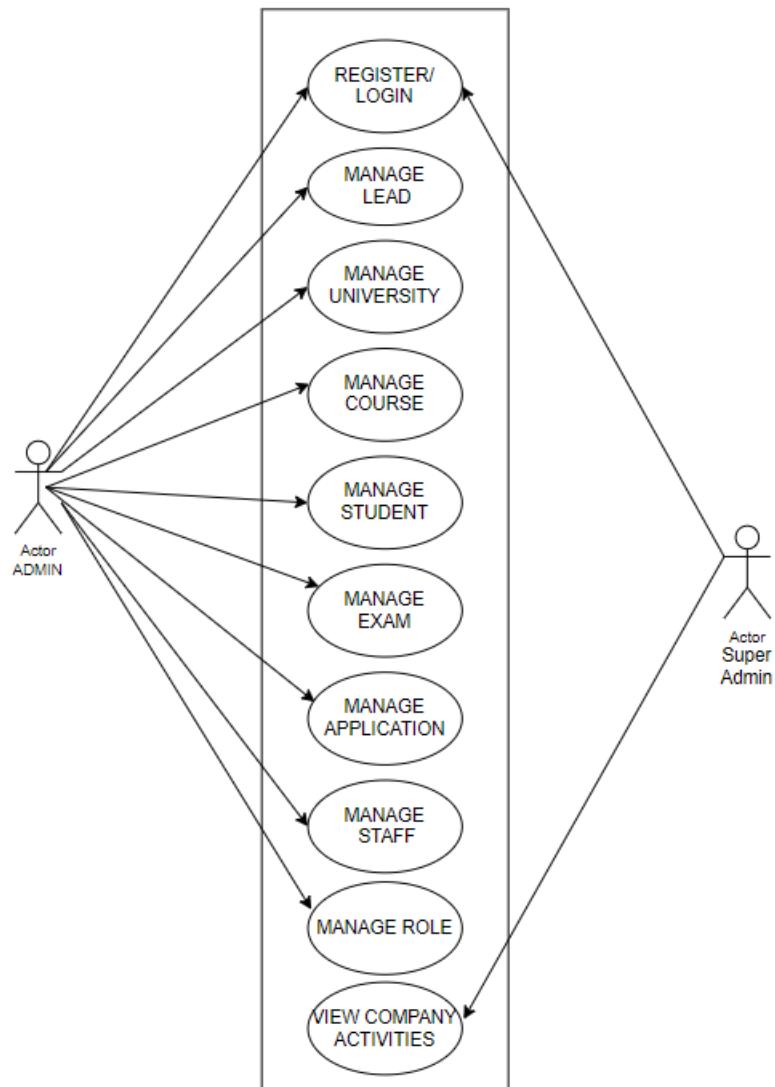


Diagram 15.1 Use Case Diagram (Admin Side)

#### 15.4. Use Case Diagram (Student Side)

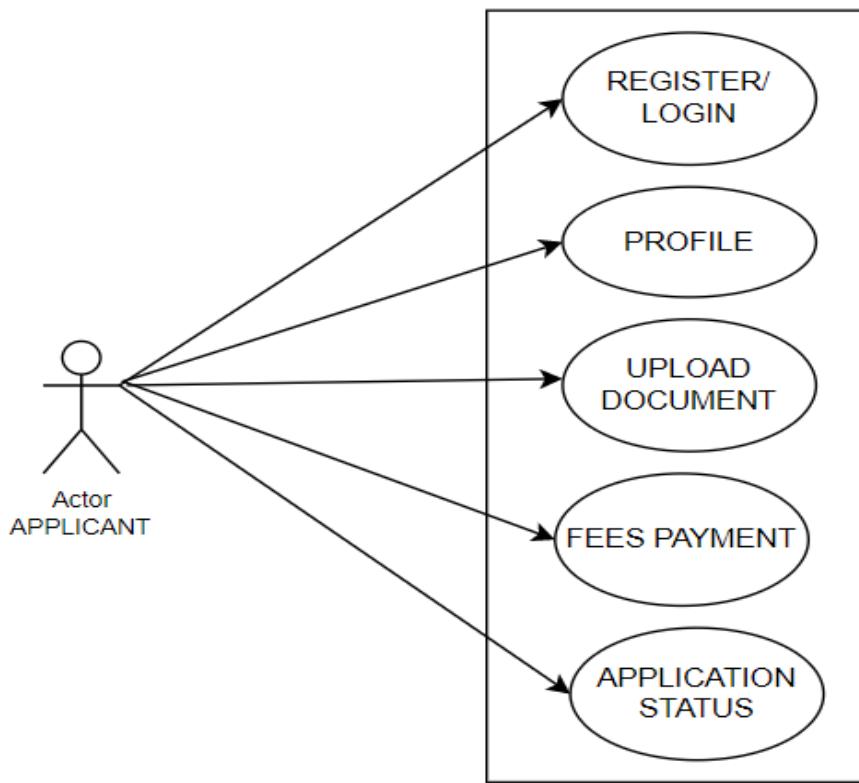


Diagram 15.2 Use Case Diagram (Student Side)

## 16. Activity Diagram

### 16.1 Activity Diagram (Super Admin)

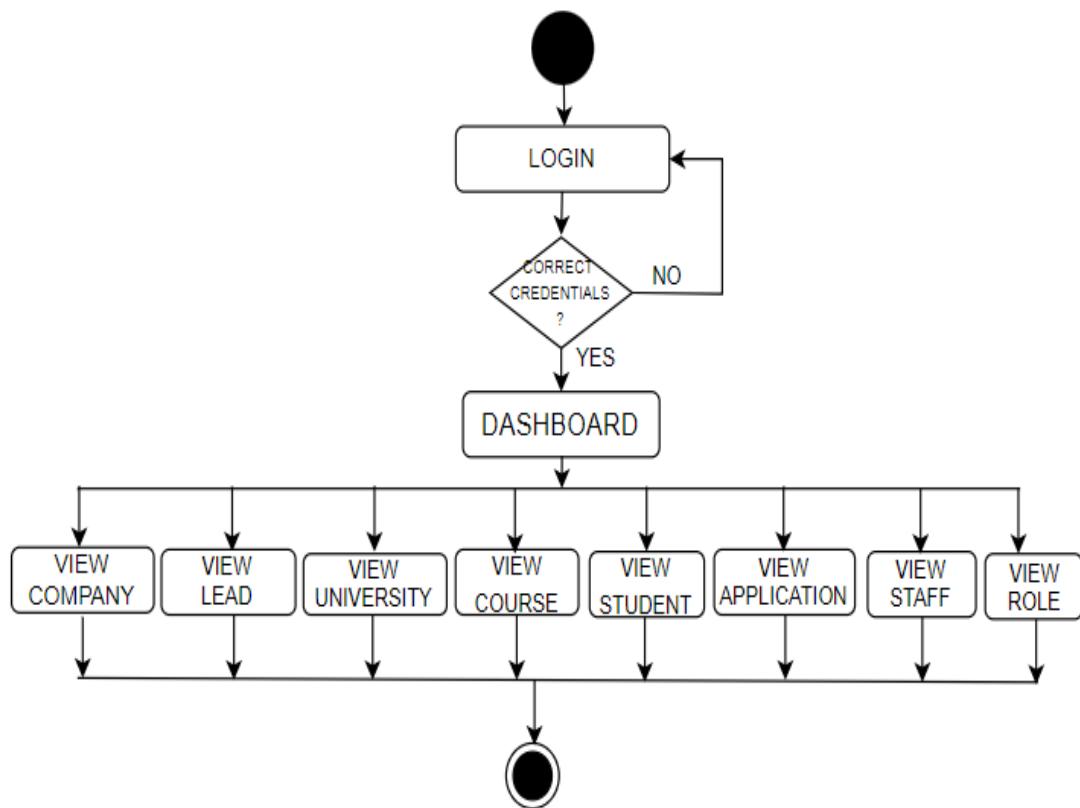


Diagram 16.1 Activity Diagram (Super Admin side)

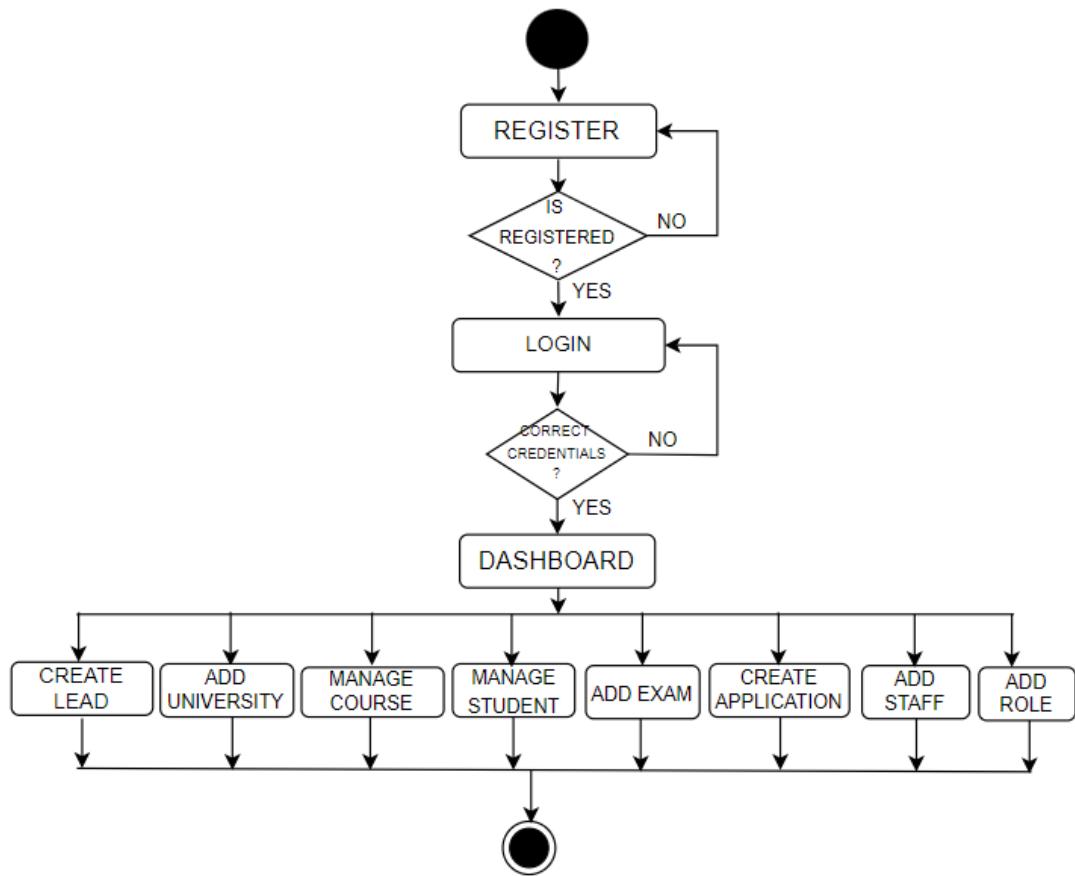
**16.2 Activity Diagram (Admin side)**

Diagram 16.2 Activity diagram (Admin Side)

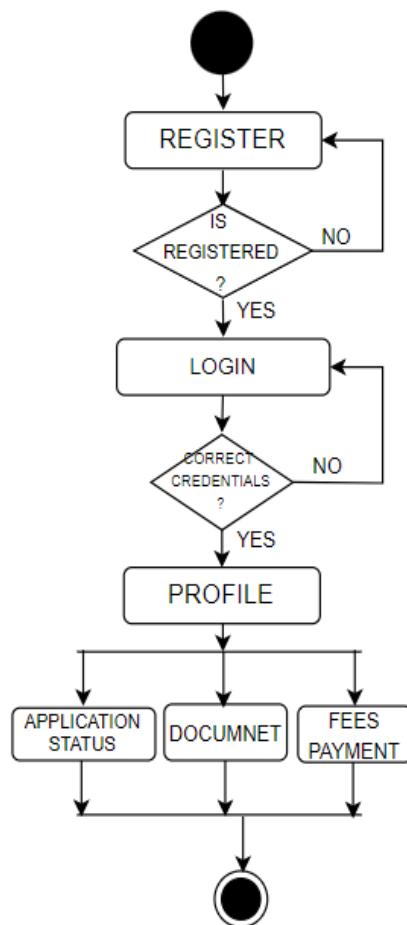
**16.3. Activity Diagram (Student side)**

Diagram 16.3 Activity diagram (Student Side)

## 17. ER Diagram

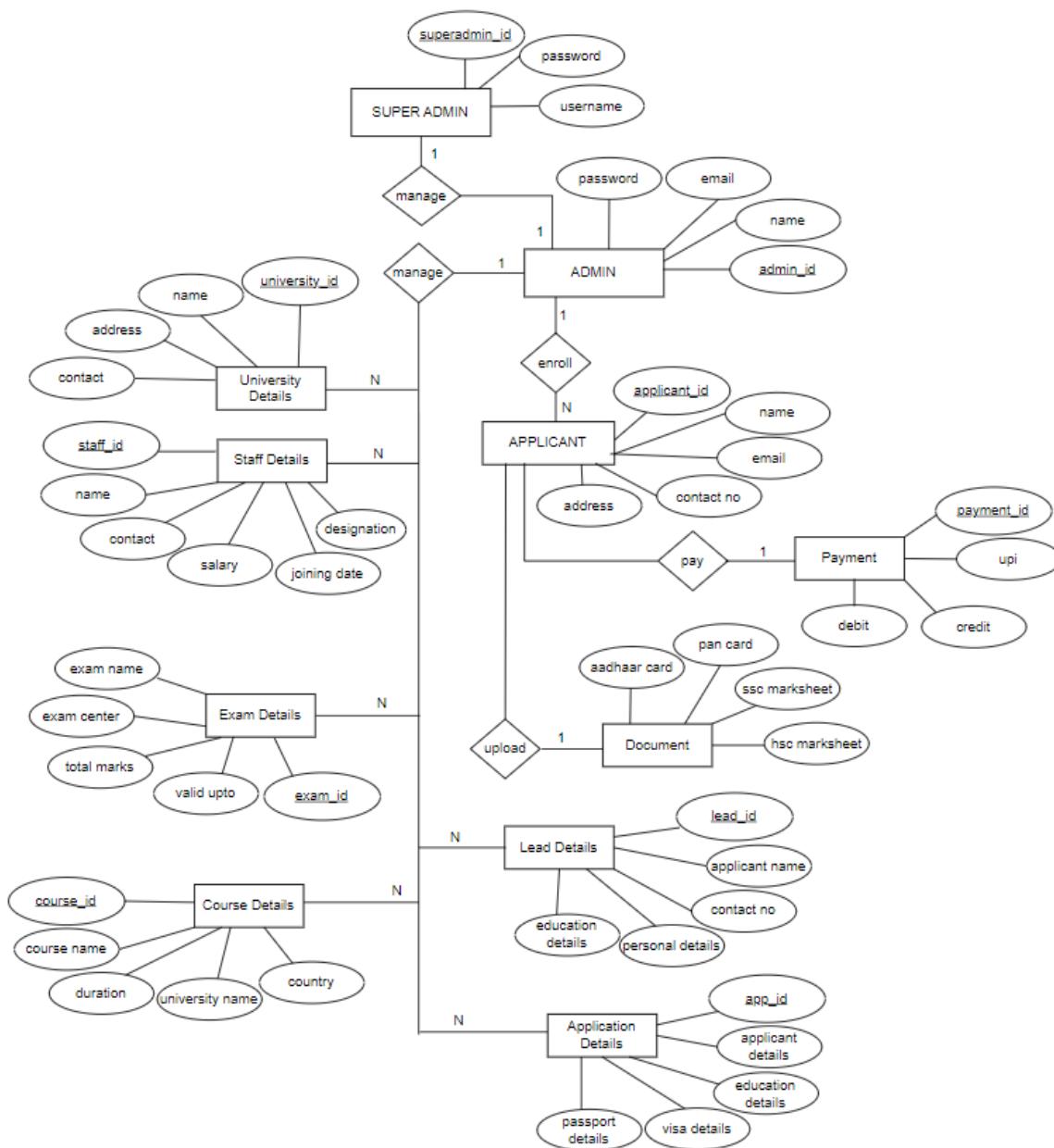


Diagram 17. ER-Diagram

## 18. Class Diagram

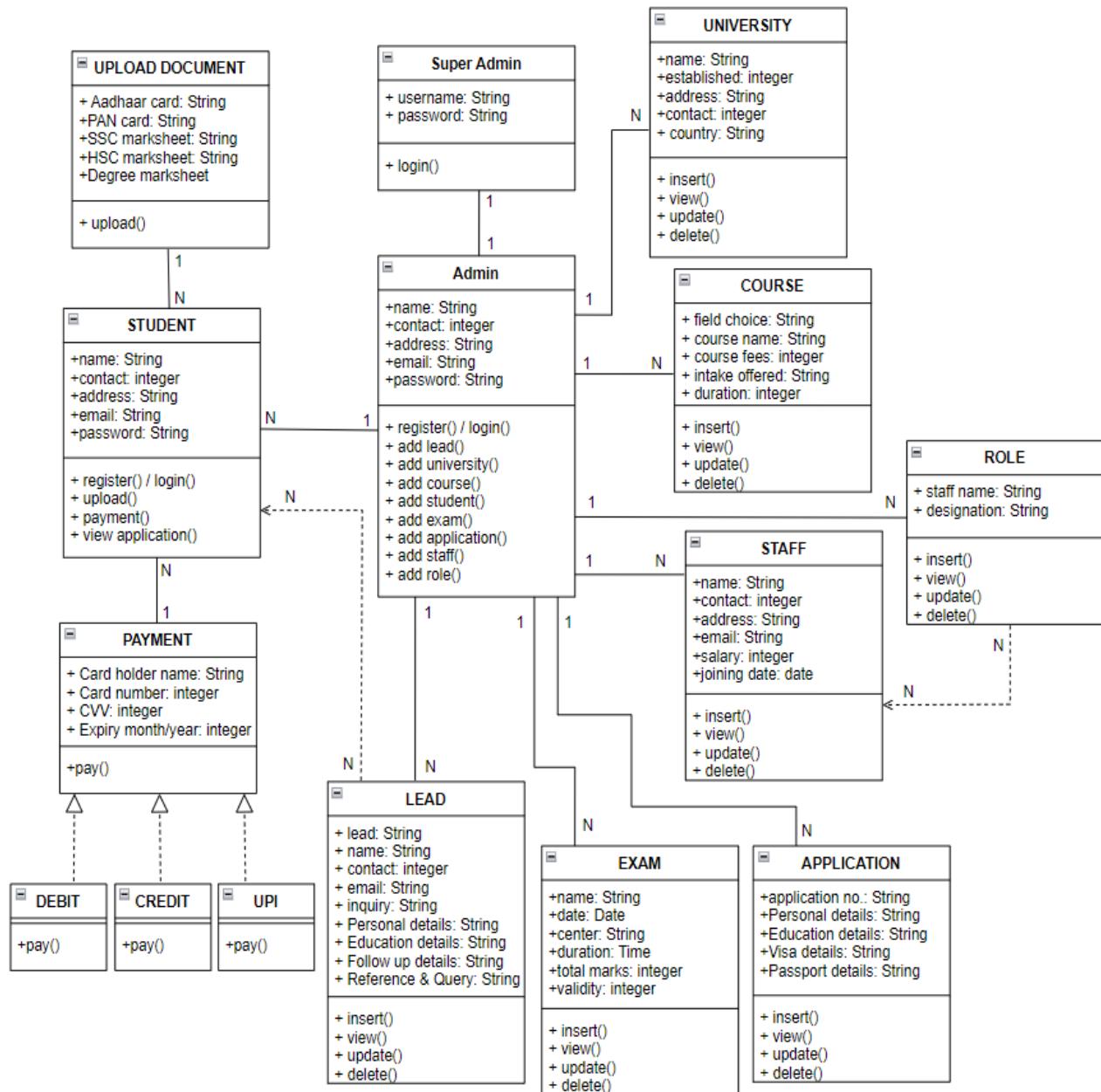


Diagram 18. Class Diagram

## 19. Sequence Diagram

### 19.1. Sequence Diagram (Super Admin Side)

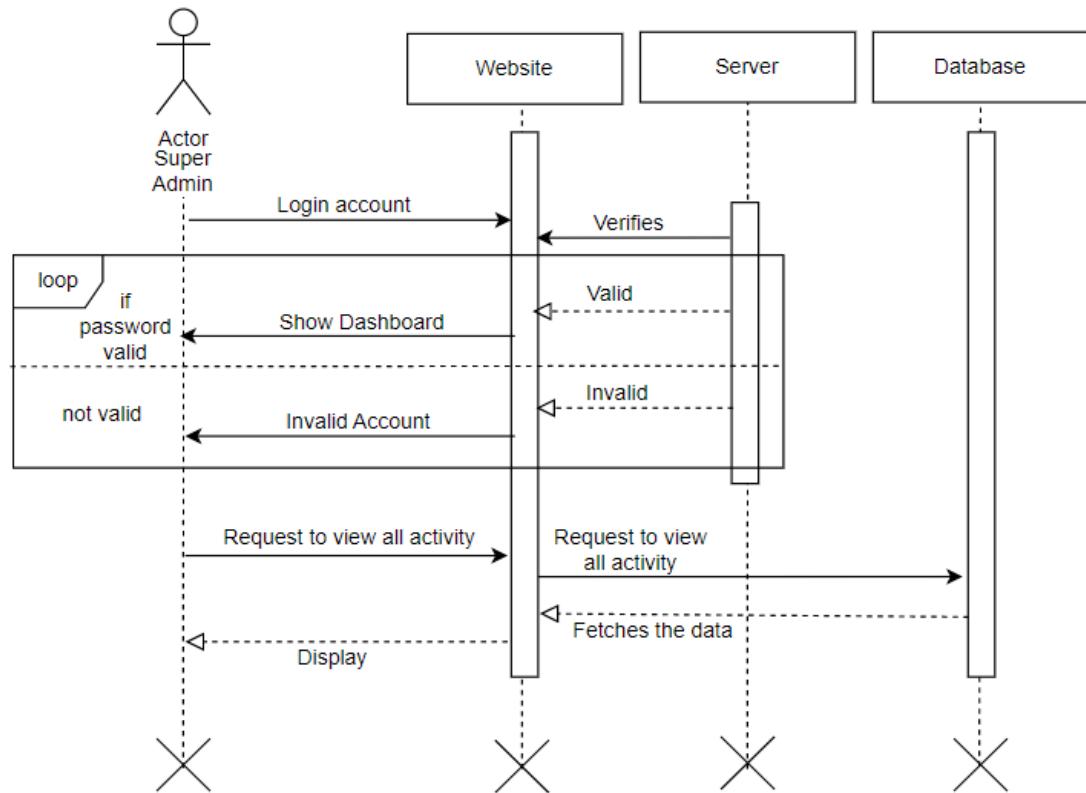


Diagram 19.1. Sequence Diagram (Super Admin Side)

## 19.2. Sequence Diagram (Admin Side)

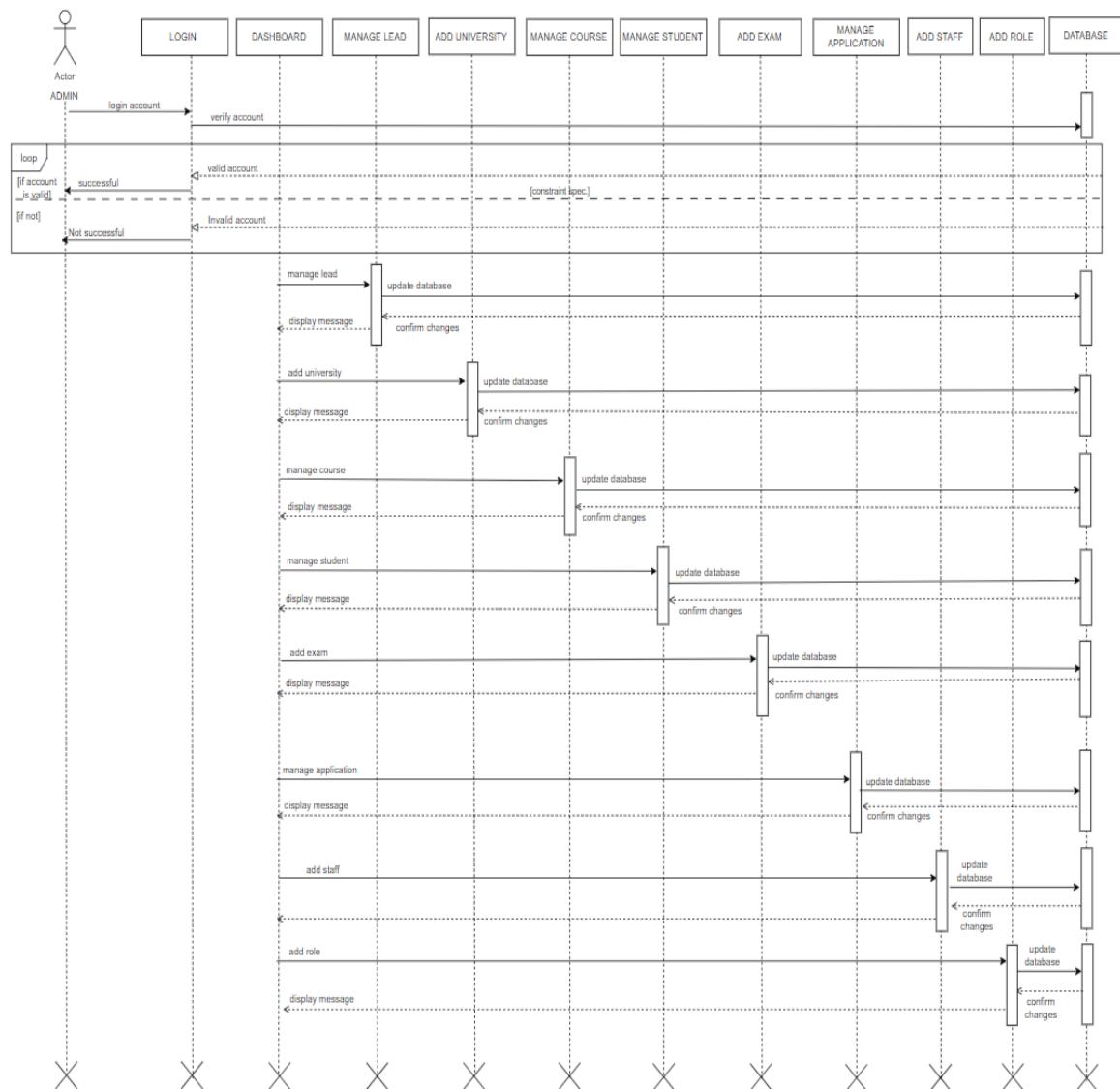


Diagram 19.2. Sequence Diagram (Admin Side)

### 19.3. Sequence Diagram (Student Side)

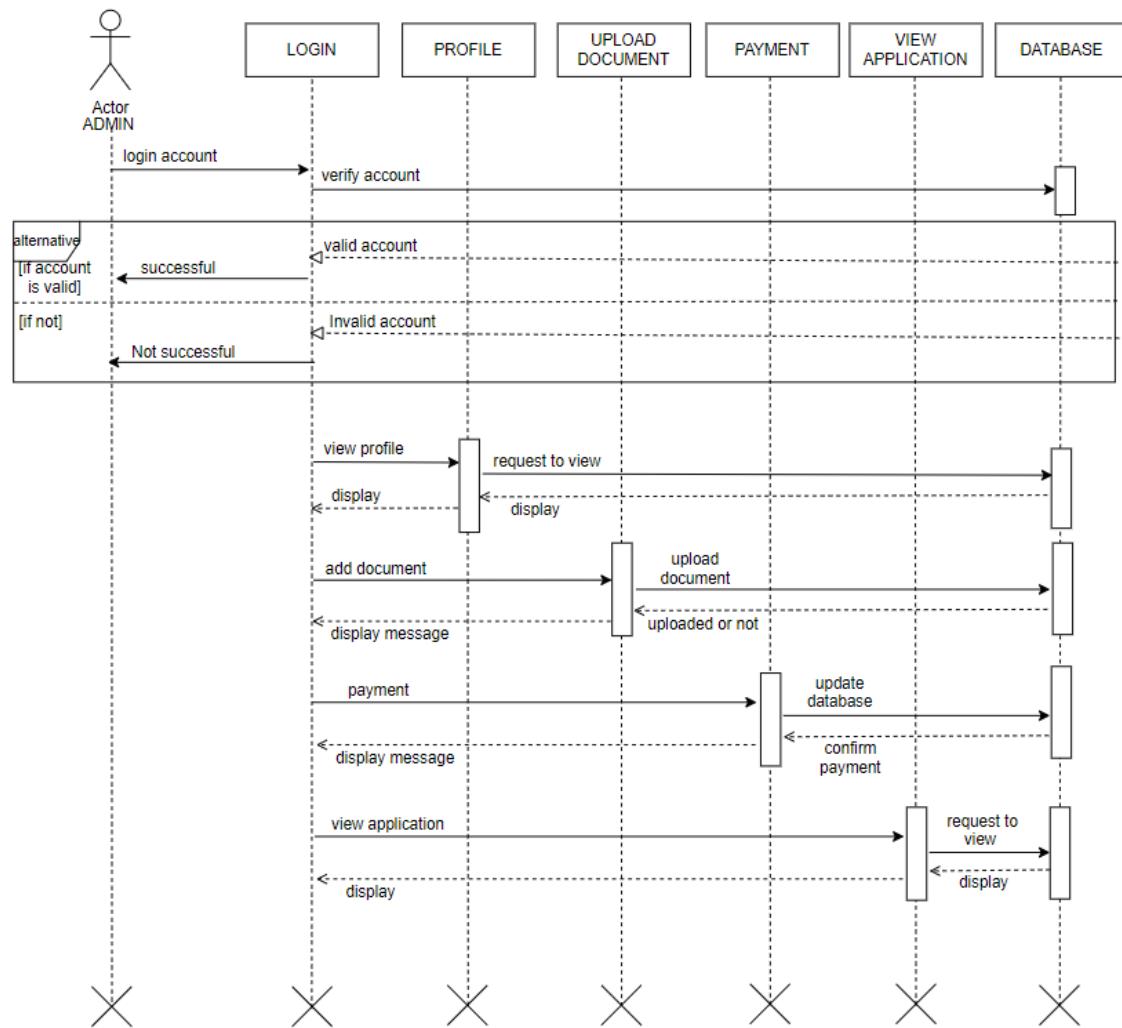


Diagram 19.3. Sequence Diagram (Student Side)

## 20. Data Dictionary

A Data Dictionary is a collection of names and attributes about data elements that has been used in a database. It describes the purpose about data elements within the context of a project and provides a guidance about the representation. Data Dictionary also provides metadata about data elements.

### 20.1. REGISTRATION TABLE OF ADMIN

This is registration table of Admin. The admin needs to register themselves.

Sr No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Auto Generated	101
2	First Name	Varchar	20	Not Null	First Name	Rohit
3	Last Name	Varchar	20	Not Null	Last Name	Patel
4	Address	Varchar	100	Not Null	Address	ABC road
5	City	Varchar	12	Not Null	City	Vadodara
6	State	Varchar	12	Not Null	State	Gujarat
7	Country	Varchar	100	Not Null	Country	India
8	Email ID	Varchar	100	Not Null	Email ID	abc@gmail.com
9	Password	Varchar	12	Not Null	Password	1234569abc
10	Contact	Varchar	10	Not Null	Contact No.	8452361245

**Table 20.1:** Registration Table of Admin

## 20.2. REGISTRATION TABLE OF STUDENT

Registration Table of Student. Those students who are interested will register themselves and then they will be enrolled.

Sr No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Auto Generated	101
2	First Name	Varchar	20	Not Null	First Name	Janhavi
3	Last Name	Varchar	20	Not Null	Last Name	Lall
4	Address	Varchar	100	Not Null	Address	ABC road
5	Email ID	Varchar	100	Not Null	Email ID	janhavilall@gmail.com
6	Password	Varchar	12	Not Null	Password	1234569abc
7	Contact	Varchar	10	Not Null	Contact No.	8452361245

**Table 20.2:** Registration Table of Student

### 20.3. LOGIN TABLE OF ADMIN

The admin needs to Login to access other functionalities of the system.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Login ID of Admin	1234
2	Username	Varchar	100	Not Null	Username of Admin	xyz@gbeducatio .com
4	Password	Varchar	12	Not Null	Password for login	123456789

**Table 4.8:** Login Table of Admin

### 20.4. LOGIN TABLE OF STUDENT

After registering, the student can login directly and redirected to the student dashboard.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Login ID of Student	11
2	Username	Varchar	100	Not Null	Username of Student	janhavilall@gm ail.com
4	Password	Varchar	12	Not Null	Password for login	12345678

**Table 20.4:** Login Table of Student

## 20.5. LOGIN TABLE OF SUPER ADMIN

Login Table of Super Admin, after successful login, the super admin can view all the activities of the admin.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Login ID of Super admin	1
2	Username	Varchar	100	Not Null	Username	superadmin@g mail.com
4	Password	Varchar	12	Not Null	Password for login	12345678

**Table 20.5:** Login Table of Super Admin

## 20.6. LEAD TABLE

Lead Table of Student.

Sr. No .	Field Name	Data Type	Size	Constraint	Description	Example
1	Id	Int	4	Primary Key	Id of student lead form	101
2	Lead	Varchar	50	Not Null	Lead query of Student	Visa
3	Date	Date	10	Not Null	Inquiry Date	12/5/2022
4	Student Name	Varchar	100	Not Null	Student Name	Rakesh
5	Email ID	Varchar	100	Not Null	Email Id of student	asd@gmail.com
6	Inquiry Type	Varchar	10	Not Null	Inquiry in company	IELTS/ PTE
7	Next Contact Date	Date	4	Not Null	Contact Date	10/10/2022
8	Description	Varchar	255	Not Null	Small description of meeting	Next meeting is on 25/2/2023

# STUDENT VISA PORTAL

9	City	Varchar	50	Not Null	City	Baroda
11	Country	Varchar	50	Not Null	Country	India
12	Salesperson	Varchar	50	Not Null	Person contacted	Admin, Back office
13	Mobile No.	Varchar	10	Not Null	Student phone no.	5236478965
14	Tags	Varchar	10	Not Null	Tag for identification	Visa, Coaching
15	Gender	Varchar	10	Not Null	Gender	Not Null
16	Marital Status	Varchar	10	Not Null	Marital status	Single, Married
17	Date of Birth	Varchar	10	Not Null	Date of Birth	10/12/1999
18	Course	Varchar	20	Not Null	Interested Course	MBA
19	University	Varchar	20	Not Null	Interested University	Oxford University
20	Degree	Varchar	20	Not Null	Degree	Bachelors, Masters
21	Start Date	Date	10	Not Null	Degree starting date	5/4/2023

22	End Date	Date	10	Not Null	Degree ending date	12/6/2025
24	Type of visa	Varchar	100	Not Null	Visa Type	Student visa
25	Applied before	Varchar	10	Not Null	Applied before	Yes/ No
26	Applied country	Varchar	100	Not Null	Applied country	USA
27	Reference 1	Varchar	225	Not Null	Reference	Advertisement
28	Reference 2	Varchar	225	Not Null	Reference	Newspaper
29	Query	Varchar	225	Not Null	Query	Any Question
30	Status	Varchar	225	Not Null	Lead Status	Processing, Completed

**Table 20.6:** Lead Table of Student

## 20.7. UNIVERSITY TABLE

University Table is used to keep record of the universities in which their maximum students have taken admission. This can be used as a reference for new applicant also.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	Id	Int	4	Primary Key	ID	1001
2	University name	Varchar	255	Not Null	Name	Sydney University
3	Established Year	Date	10	Not Null	Established Year	1995
4	Address	Varchar	255	Not Null	Address	Victoria road
5	Country	Varchar	255	Not Null	Country	Australia
6	State	Varchar	255	Not Null	State	New South Wales
7	City	Varchar	255	Not Null	City	Sydney
8	Contact Number	Varchar	10	Not Null	Contact Number	7856324589

**Table 20.7:** University Table

## 20.8. COURSE TABLE

Course Table is used to keep record of the courses in which students have enrolled.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	Id	Int	4	Primary Key	Id of course	1001
2	Course Name	Varchar	100	Not Null	Name of course	MBA
3	Field Choice	Varchar	100	Not Null	Field Choice	Science, Commerce
4	Country	Varchar	100	Not Null	Country	Australia
5	State	Varchar	100	Not Null	State	Victoria
6	City	Varchar	100	Not Null	City	Melbourne
7	University	Varchar	100	Not Null	University	British College
8	Degree	Varchar	100	Not Null	Degree	Bachelors, Masters
9	Intake Month	Varchar	10	Not Null	Month of Joining	September
10	Duration	Varchar	20	Not Null	Course duration	2 Years
11	Fees	Varchar	100	Not Null	Fees of course	50 Lakhs

**Table 20.8:** Course Table

## 20.9. STUDENT TABLE

Student table is depicting the students who have enrolled themselves.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Id of student	101
2	First Name	Varchar	100	Not Null	First Name of Student	Rakesh
3	Last Name	Varchar	100	Not Null	Last Name of student	Kumar
4	Gender	Varchar	20	Not Null	Gender	Male
5	Date of birth	Date	4	Not Null	Date of Birth	15/08/2000
3	Marital Status	Varchar	20	Not Null	Marital status of student	Single, Married
4	Contact	Varchar	10	Not Null	Contact of student	4865326987
5	Course	Varchar	100	Not Null	Course	MBA
6	Date Created	Date	50	Not Null	Date of creation	12/5/2022
7	Address	Varchar	255	Not Null	Address	XYZ, B-Block
8	Status	Enum	100	Not Null	Status of form	Pending, Completed

Table 20.9: Student Table

## 20.10. EXAM TABLE

Exam Table, managed by admin will keep the record of exams if given by student.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	INT	4	NOT NULL	Auto Generated	1001
2	Exam Name	Varchar	100	NOT NULL	Exam name	IELTS
3	Exam Type	Varchar	100	NOT NULL	Exam Type	Reading
4	Exam Date	Date	100	NOT NULL	Date	15/5/2019
5	Start Time	Time	100	NOT NULL	Starting Time	2:30 PM
6	End Time	Time	100	NOT NULL	Ending Time	5:30 PM
7	Exam Centre	Varchar	100	NOT NULL	Exam centre	Vadodara
8	Examiner name	Varchar	100	NOT NULL	Examiner Name	Nitin Patel
9	Exam Duration	Varchar	100	NOT NULL	Duration	3 hours
10	Total Questions	Varchar	100	NOT NULL	Total Questions	100
11	Total Marks	Varchar	100	NOT NULL	Total Marks	500
12	Exam Fees	Varchar	100	NOT NULL	Fees	1500/-

Table 20.10: Exam Table

**20.11.APPLICATION TABLE**

Sr. No .	Field Name	Data Type	Size	Constraint	Description	Example
1	Id	Int	4	Primary Key	ID	1
2	Application No.	Varchar	50	Not Null	Application No.	101
3	First name	Varchar	100	Not Null	First name of student	Rakesh
4	Last name	Varchar	100	Not Null	Last name of student	Kumar
5	Gender	Varchar	100	Not Null	Gender	Male
6	Date of Birth	Varchar	100	Not Null	Student date of birth	12/5/1999
7	Email Id	Varchar	50	Not Null	Email Id	<a href="mailto:xyz@gmail.com">xyz@gmail.com</a>
8	Marital Status	Varchar	100	Not Null	Marital status	Single, Married
9	Course	Varchar	100	Not Null	Course completed	BCA
10	University	Varchar	100	Not Null	University name	MSU
11	Applied for Degree	Varchar	100	Not Null	Degree applied	MCA
12	Start Date	Date	10	Not Null	Start Date	15/15/2020
13	End Date	Date	10	Not Null	End Date	15/3/2022

14	IELTS score	Varchar	10	Not Null	Score	8
15	Visa Type	Varchar	100	Not Null	Visa Type	Student type
16	Journey Purpose	Varchar	255	Not Null	Journey Purpose	Study Purpose
17	Visa fees	Varchar	100	Not Null	Fees	20000/-
18	Payment Type	Varchar	100	Not Null	Payment Type	Cash, Cheque, Card
19	Applied before	Varchar	100	Not Null	Country applied	Yes/No
20	Criminal record	Varchar	10	Not Null	Criminal Record	Yes/No
21	Passport Type	Varchar	100	Not Null	Passport Type	Diplomatic
22	Passport Number	Varchar	100	Not Null	Passport Number	31145269
23	Issued Place	Varchar	100	Not Null	Issued Place	Delhi
24	Issued Date	Date	10	Not Null	Issued date	12/5/2019
25	Expiry Date	Date	10	Not Null	Expiry date	4/5/2030
26	Birth Nationality	Varchar	100	Not Null	Nationality	India
27	Present Nationality	Varchar	100	Not Null	Nationality	India

**Table 20.11:** Application Table

## 20.12. STAFF TABLE

Staff Table managed by Admin will keep the records of staff working.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Staff ID	101
2	First Name	Varchar	100	Not Null	First Name of staff	Rakesh
3	Last Name	Varchar	100	Not Null	Last Name of staff	Kumar
4	Gender	Varchar	20	Not Null	Gender	Male
5	Date of birth	Date	4	Not Null	Birth date	15/08/2000
3	Marital Status	Varchar	20	Not Null	Marital status	Single, Married
4	Contact	Varchar	10	Not Null	Contact of student	4865326987
5	Date of Joining	Date	100	Not Null	Date	12/2/2020
6	Salary	Varchar	255	Not Null	Staff salary	20,000/-
7	Address	Varchar	255	Not Null	Address	XYZ, B-Block
8	Status	Enum	100	Not Null	Status of form	Assigned, not assigned

Table 20.12: Staff Table

### 20.13. ROLE TABLE

Role Table depict the designation of the staff or different designation present in the company.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	Staff ID	101
2	Staff name	Varchar	100	Not Null	Staff name	Rakesh
3	Designation	Varchar	100	Not Null	Designation	Admin

**Table 20.13:** Role Table

## 20.14. DOCUMENT TABLE

Document Table will keep the record of the documents uploaded by the student.

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	ID	101
2	Aadhaar card	Varchar	2MB	Not Null	Aadhaar card	File
3	PAN card	Varchar	2MB	Not Null	PAN card	File
4	SSC marksheets	Varchar	2MB	Not Null	Marksheet	File
5	HSC marksheets	Date	2MB	Not Null	Marksheet	File
3	Degree	Varchar	2MB	Not Null	Marksheet	File
4	Course	Varchar	255	Not Null	Course pursuing	MCA
5	University	Varchar	255	Not Null	University name	Seneca University
6	Country	Varchar	255	Not Null	Country name	Canada

Table 20.14: Document Table

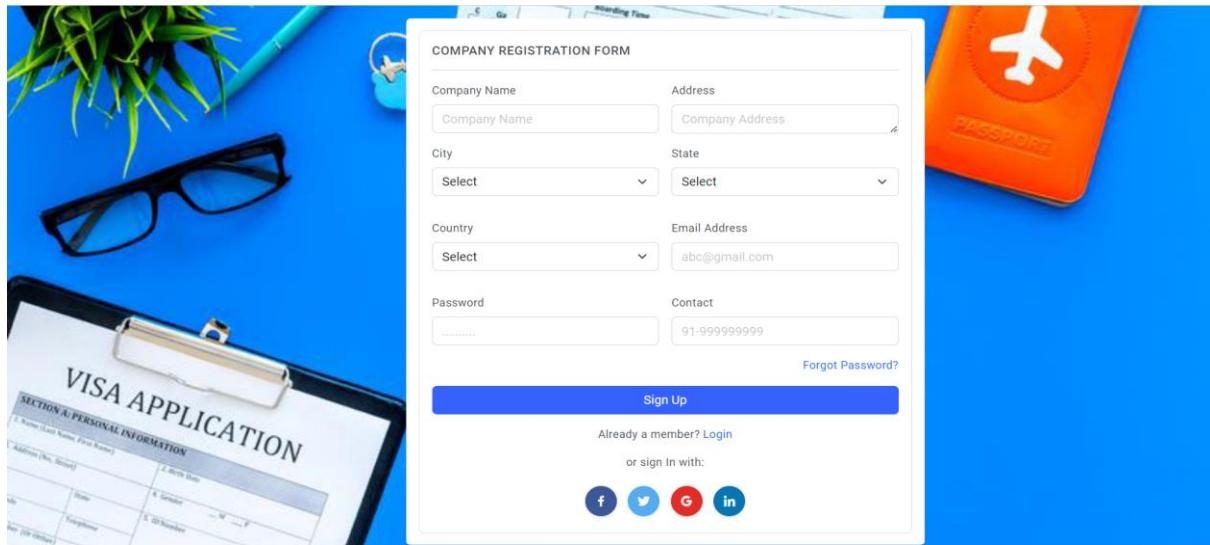
**20.15. PAYMENT TABLE**

Sr. No.	Field Name	Data Type	Size	Constraint	Description	Example
1	ID	Int	4	Primary Key	ID	19242197
2	Amount	Int	255	Not Null	Amount	450/-
3	Date	Date	4	Not Null	Transaction date	20/5/2022
4	Payment type	Varchar	100	Not Null	Payment mode	Debit card

**Table 20.15:** Payment Table

## 21. Form Layouts (System Design)

### 21.1. Company Registration Page



The image shows a company registration form overlaid on a background of travel-related items. The background includes a blue surface with a green plant, a pair of black sunglasses, a white clipboard with a 'VISA APPLICATION' form, and an orange passport with a white airplane icon.

**COMPANY REGISTRATION FORM**

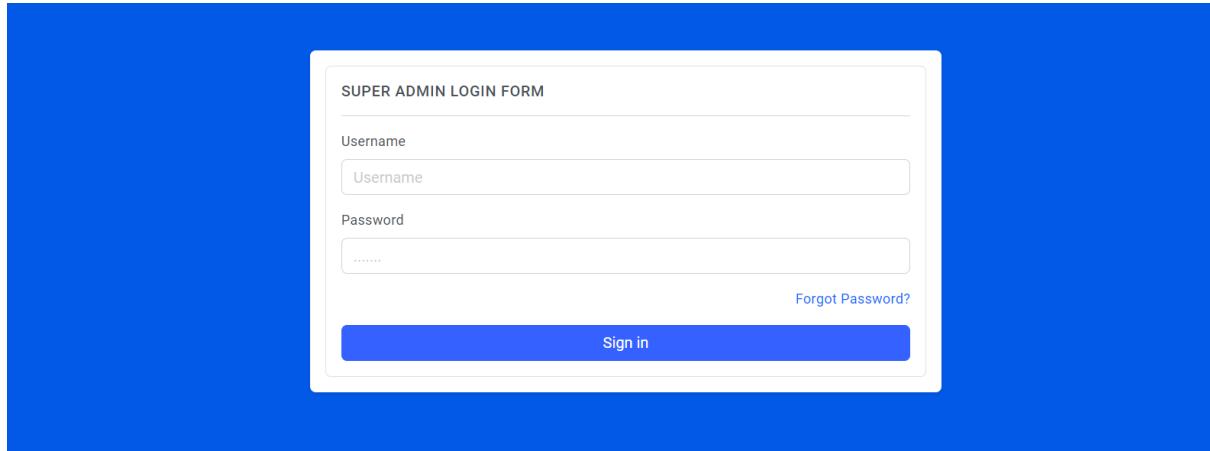
Company Name  Address   
City  State   
Country  Email Address   
Select  Select   
Password  Contact   
[Forgot Password?](#)

**Sign Up**

Already a member? [Login](#)  
or sign in with:

**Figure 21.1:** Form Layout of Company Registration Page

### 21.2. Super Admin Login Page



The image shows a super admin login form on a blue background. The form is contained within a white rectangular box.

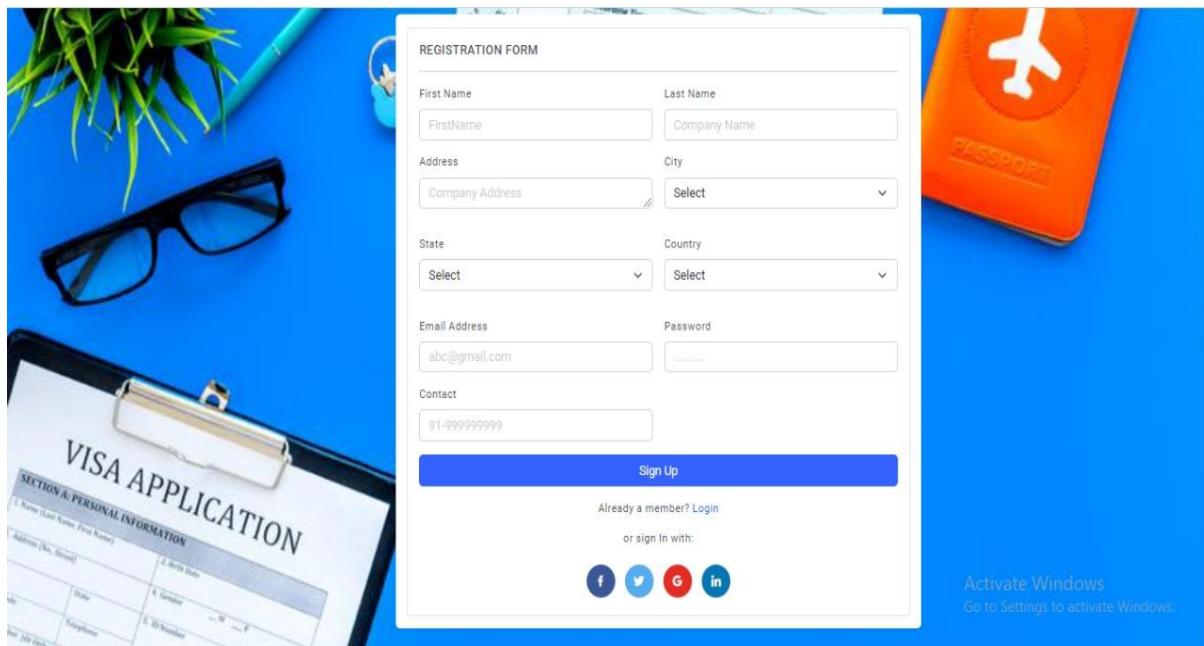
**SUPER ADMIN LOGIN FORM**

Username   
Password   
[Forgot Password?](#)

**Sign in**

**Figure 21.2:** Form Layout of Super Admin Page

### 21.3. Admin Registration Form

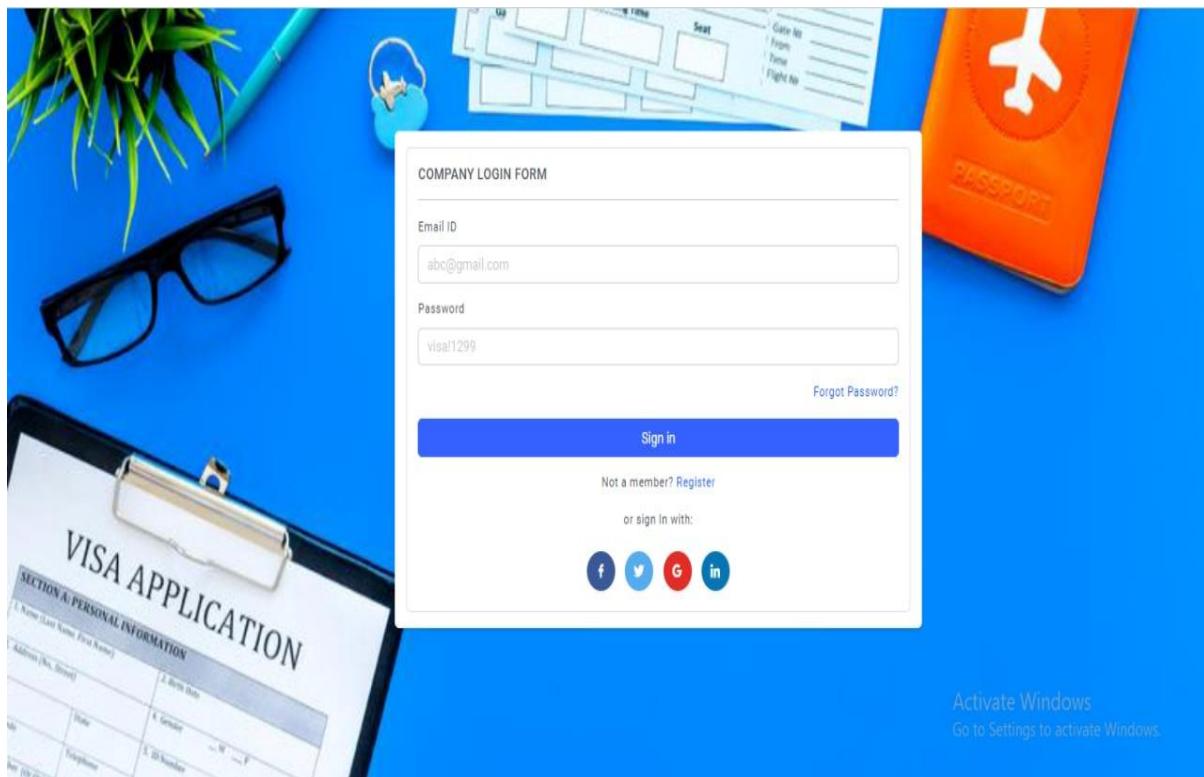


The image shows a registration form titled "REGISTRATION FORM". It includes fields for First Name, Last Name, Address, City, State, Country, Email Address, Password, and Contact. There is a "Sign Up" button and links for "Already a member? Login" and "or sign in with:" followed by social media icons for Facebook, Twitter, Google+, and LinkedIn. A "Activate Windows" message with a link to "Settings to activate Windows" is also present.

REGISTRATION FORM	
First Name	Last Name
<input type="text" value="FirstName"/>	<input type="text" value="Company Name"/>
Address	City
<input type="text" value="Company Address"/>	<input type="button" value="Select"/>
State	Country
<input type="button" value="Select"/>	<input type="button" value="Select"/>
Email Address	Password
<input type="text" value="abc@gmail.com"/>	<input type="password"/>
Contact	
<input type="text" value="91-999999999"/>	
<b>Sign Up</b>	
Already a member? <a href="#">Login</a>	
or sign in with:	
<a href="#"></a> <a href="#"></a> <a href="#"></a> <a href="#"></a>	
Activate Windows <a href="#">Go to Settings to activate Windows.</a>	

Figure 21.3: Form Layout of Admin Registration Page

### 21.4. Admin Login Form

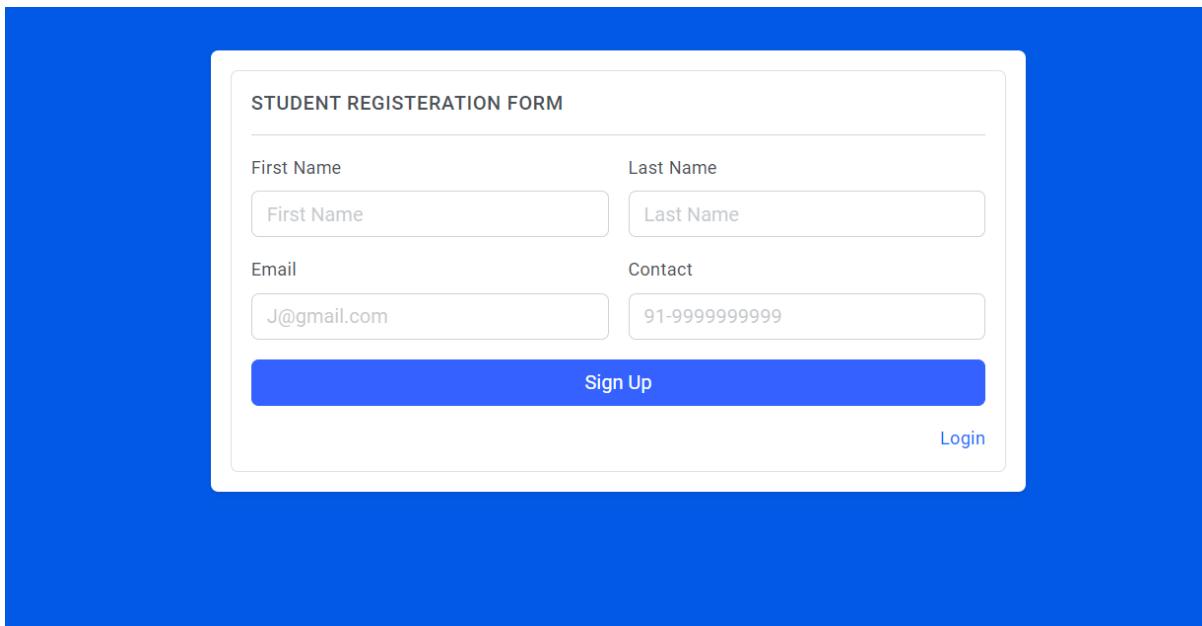


The image shows a login form titled "COMPANY LOGIN FORM". It includes fields for Email ID and Password, with a "Forgot Password?" link. There is a "Sign in" button and links for "Not a member? Register" and "or sign in with:" followed by social media icons for Facebook, Twitter, Google+, and LinkedIn. A "Activate Windows" message with a link to "Settings to activate Windows" is also present.

COMPANY LOGIN FORM	
Email ID	
<input type="text" value="abc@gmail.com"/>	<input type="password"/>
Password	
<input type="text" value="visa1299"/>	
Forgot Password?	
<b>Sign in</b>	
Not a member? <a href="#">Register</a>	
or sign in with:	
<a href="#"></a> <a href="#"></a> <a href="#"></a> <a href="#"></a>	
Activate Windows <a href="#">Go to Settings to activate Windows.</a>	

Figure 21.4: Form Layout of Admin Login Page

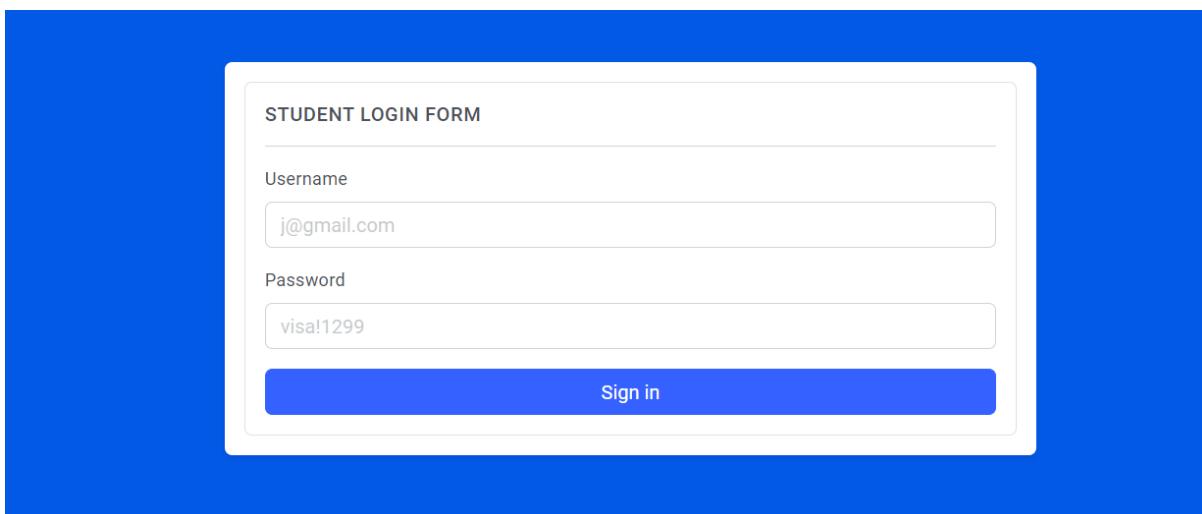
## 21.5. Student Registration Form



The image shows a registration form titled "STUDENT REGISTRATION FORM". It contains four input fields: "First Name" and "Last Name" (each in its own box), "Email" (containing "J@gmail.com"), and "Contact" (containing "91-9999999999"). Below these fields are two buttons: a large blue "Sign Up" button and a smaller white "Login" button.

**Figure 21.5:** Form Layout of Student Registration Page

## 21.6. Student Login Form



The image shows a login form titled "STUDENT LOGIN FORM". It contains two input fields: "Username" (containing "j@gmail.com") and "Password" (containing "visa!1299"). Below these fields is a blue "Sign in" button.

**Figure 21.6:** Form Layout of Student Login Page

## 21.7. Add Lead Page

**ADD LEAD**

Lead	Date	Contact Name	Email
Select	mm/dd/yyyy	John	a@gmail.com
Address		Inquiry Type	City
Address lines...		Select	Select
		State	Country
		Selected	Select
Sales Person	Mobile Number	Tags	
Select	91-4785125896	Select	
<b>Additional Information</b>			
<input checked="" type="radio"/> Personal Details <input type="radio"/> Education Details <input type="radio"/> Follow Up Details <input type="radio"/> Reference & Query			
Gender	Marital status	Date Of Birth	
Select	Selected	mm/dd/yyyy	
<a href="#">Add Lead</a>			

Activate Windows  
Go to Settings to activate Windows.

**Figure 21.7:** Form Layout of Add Lead Page

## 21.8. Add University Page

**ADD UNIVERSITY**

University Name	University Established	Address
University Name	Year of Established	Address lines...
Country	State	City
Select	Select	Select
Contact Number		
91-4785124785		
<a href="#">Add University</a>		

Activate Windows  
Go to Settings to activate Windows.

**Figure 21.8:** Form Layout of Add University Page

## 21.9. Add Student Page

**ADD STUDENT**

First Name	Last Name	Gender
FirstName	LastName	Select
Date Of Birth	Marital Status	Contact
mm/dd/yyyy	Select	91-4578581248
Course	Date created	
Select	mm/dd/yyyy	
Address	Status	
Address lines...	Select	

Add Student

Activate Windows.  
Go to Settings to activate Windows.

Figure 21.9: Form Layout of Add Student Page

## 21.10. Add Application Page

**Visa Details**

Visa Type	Purpose Of Journey	Visa Fee	Payment Type
Select	Select	1,00,000	Select
Have you applied before?	If Yes, enter country name	Do You Have A Criminal Record?	
Select	Country	Select	Select

**Passport Details**

Passport Type	Passport Number	Place Of Issue	Issue Date
Select		Select	mm/dd/yyyy
Expiry Date	Birth Nationality	Present Nationality	
mm/dd/yyyy	Select	Select	Select

I declare the info provided in this application is true & correct.

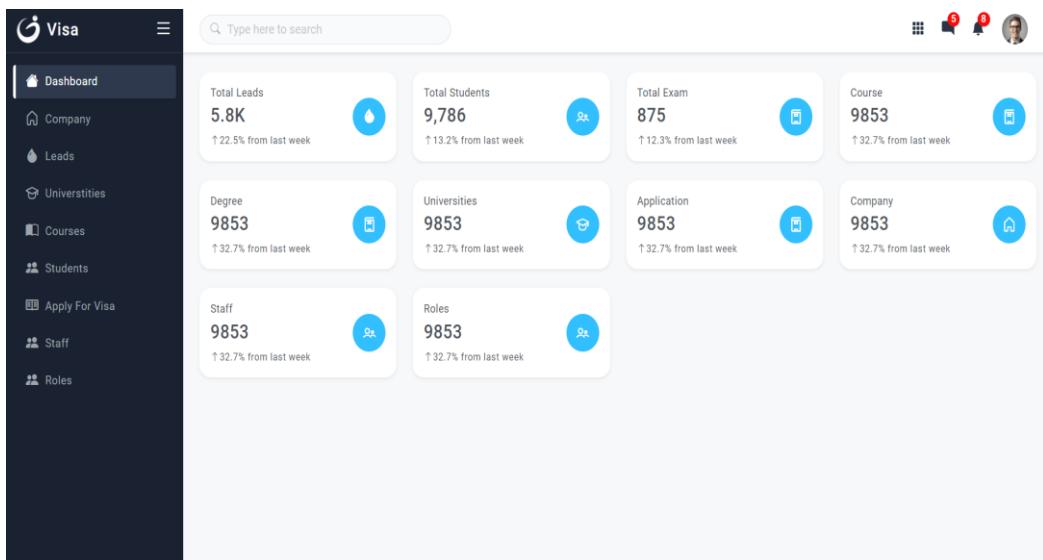
Add Application

Activate Windows  
Go to Settings to activate Windows.

Figure 21.10: Form Layout of Add Application Page

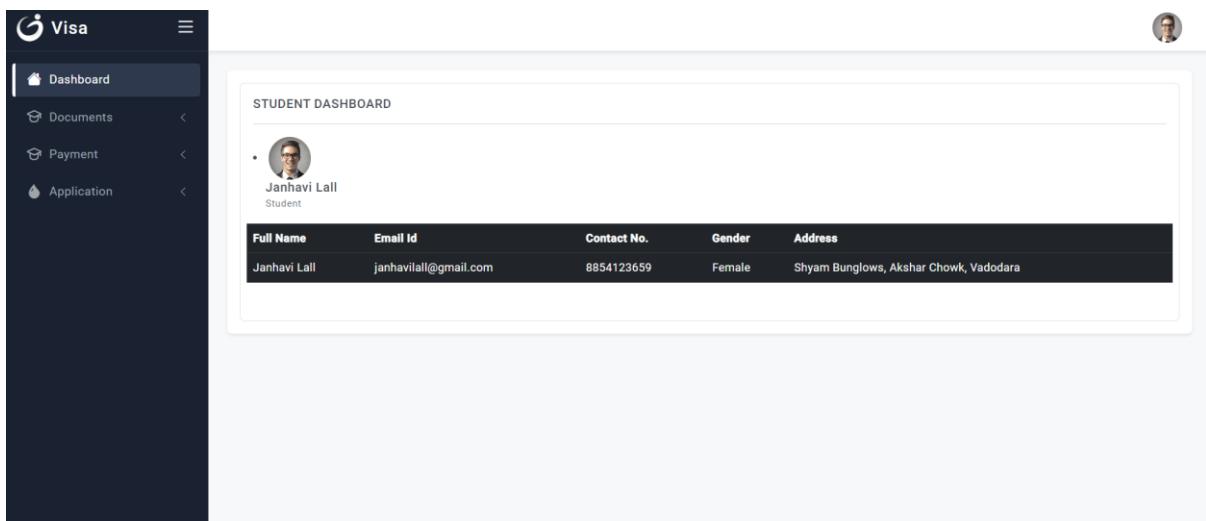
## 22. Page Layout

### 22.1. Page layout of Admin Dashboard



**Figure 22.1:** Page Layout of Super Admin Dashboard

### 22.2. Page layout of Student dashboard



**Figure 22.2:** Page Layout of Student Dashboard

## 22.3. Page layout of Update Lead

**Figure 22.3:** Page Layout of Update lead

## 22.4. Page layout of Student details page

**Figure 22.4:** Page Layout of Student details page

## 22.5. Page layout of View lead page

Sr. No.	Company Name	Student Name	Inquiry	Action
1	Web Visa Consultancy	Janhavi	ielts	<button>View More</button>
2	Web Visa Consultancy	Tanya	ielts	<button>View More</button>
3	Web Visa Consultancy	Trushali Darji	ielts	<button>View More</button>
4	Web Visa Consultancy	Akash	ielts	<button>View More</button>
5	Web Visa Consultancy	Shashank Patel	ielts	<button>View More</button>
6	Web Visa Consultancy	Rohit Patel	ielts	<button>View More</button>
7	Web Visa Consultancy	Praveen Patel	ielts	<button>View More</button>

Showing 1 to 7 of 7 entries

Figure 22.5: Page Layout of view lead page

## 22.6. Page layout of View Staff page

<b>First Name</b> Janhavi	<b>Last Name</b> Lail	<b>Gender</b> Female	<b>Marital Status</b> single
<b>Contact Number</b> 4523654123	<b>Email</b> example@gmail.com	<b>Role</b> Accountant	<b>Date Of Joining</b> 2023-01-20
<b>Address</b> xyz road near ABC Bank	<b>City</b> vadodara	<b>State</b> gujarat	<b>Country</b> India
<b>Status</b> Active	<b>Salary</b> 20000		

Figure 22.6: Page Layout of view staff page

## 23. Report Layout

The system is based on SaaS based model. The system will help to gather student for the visa providing company. The student can get counselling and guidance for taking admission into their desired universities.

The system has 3 users: (1) Admin (2) Applicant (3) Super Admin. The Admin and the Applicant will be having a direct conversation. Admin will enrol the applicant when the applicant pays an amount and followed by uploading the required document, while the Super Admin will view all the activities done by the Admin.

This system includes several modules which have distinct functionalities, it will collect personal information of the applicant and will create an application too which will be submitted to the desired university on behalf of the student for taking admission.

For testing, we have used Top-Down method of testing in which we first discuss the required fields, followed by designing and implementation.

To build this system Laravel 8 (PHP framework) is used, XAMPP server, bootstrap, MySQL is used.

## 24. Coding Conventions

## 24.1. Coding Convention of Web Page



```
File Edit Selection View Go Run Terminal Help web.php - visa - Visual Studio Code

EXPLORER
VISA
  viewcity.blade.php
  viewcountry.blade.php
  viewcourse.blade.php
  viewdegree.blade.php
  viewexam.blade.php
  viewlead.blade.php
  viewrole.blade.php
  viewstat.blade.php
  viewstate.blade.php
  viewstudent.blade.php
  viewuniversity.blade.php
  welcome.blade.php

routes
  api.php
  channels.php
  console.php
  web.php

storage
tests
vendor
visas
  editorconfig
  env
  env.example
  gitattributes
  gitignore
  artisan
    composer.json
    composer.lock
    package.json
    phpunit.xml
  README.md
  vite.config.js
  OUTLINE
  TIMELINE

routes > web.php
routes > web.php
67
68
69 //-----LOGIN-----
70 Route::get('/login', [LoginController::class, 'index']);
71 Route::post('/login', [LoginController::class, 'store']);
72
73 //-----DASHBOARD-----
74
75 Route::get('/dashboard', [DashboardController::class, 'index']);
76
77 //-----LEAD-----
78
79 Route::get('/addlead', [AddLeadController::class, 'index']);
80 Route::post('/addlead', [AddLeadController::class, 'store'])->name('lead.add');
81 Route::get('/viewlead', [AddLeadController::class, 'view']);
82 Route::get('/lead_status_update/{id}', [AddLeadController::class, 'lead_status_update']); //ACTIVE-INACTIVE STATUS
83 Route::get('/viewlead/delete/{id}', [AddLeadController::class, 'delete'])->name('lead.delete');
84 Route::get('/viewlead/edit/{id}', [AddLeadController::class, 'edit'])->name('lead.edit');
85 Route::put('/update_lead/{id}', [AddLeadController::class, 'update']);
86
87 //-----UNIVERSITIES-----
88
89 Route::get('/adduniv', [AddUniversityController::class, 'index']);
90 Route::post('/adduniv', [AddUniversityController::class, 'store']);
91 Route::get('/viewuniversity', [AddUniversityController::class, 'view']);
92 Route::get('/viewuniversity/delete/{id}', [AddUniversityController::class, 'delete']);
93 Route::get('/viewuniversity/edit/{id}', [AddUniversityController::class, 'edit']);
94 Route::put('/update_university/{id}', [AddUniversityController::class, 'update']);
95
96 //-----DEGREE-----
97
98 Route::get('/adddegree', [AddDegreeController::class, 'index']);
99 Route::post('/adddegree', [AddDegreeController::class, 'store']);
100 Route::get('/viewdegree', [AddDegreeController::class, 'view']);
101 Route::get('/viewdegree/delete/{id}', [AddDegreeController::class, 'delete']);
102
103 Route::get('/viewdegree/edit/{id}', [AddDegreeController::class, 'edit']);
104 Route::put('/update_degree/{id}', [AddDegreeController::class, 'update']);
```

**Figure 24.1:** Coding Convention of Web Page

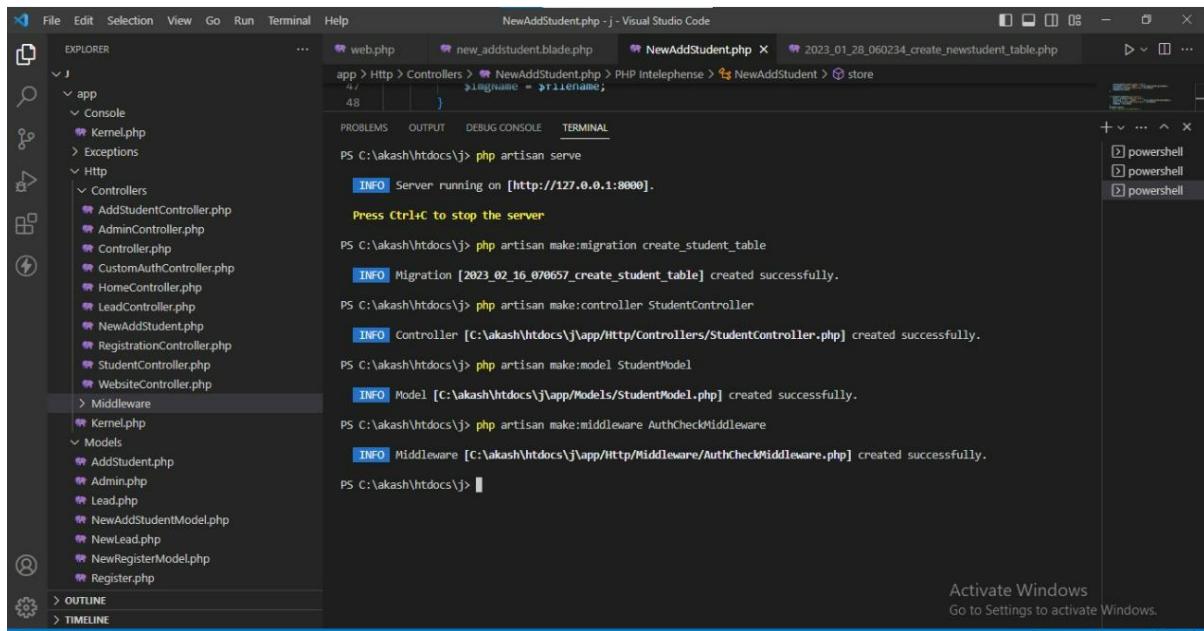
## 24.2. Coding Convention of Auth Check Page (Middleware)

```
File Edit Selection View Go Run Terminal Help
AuthCheck.php - visa - Visual Studio Code
EXPLORER ... web.php superDashboardController.php AuthCheck.php X
app > Http > Middleware > AuthCheck.php > PHP Intelephense > AuthCheck > handle
4
5     use Closure;
6     use Illuminate\Http\Request;
7
8     class AuthCheck
9     {
10         /**
11          * Handle an incoming request.
12          *
13          * @param \Illuminate\Http\Request $request
14          * @param Closure(\Illuminate\Http\Request): (\Illuminate\Http\Response|\Illuminate\Http\RedirectResponse) $next
15          * @return \Illuminate\Http\Response|\Illuminate\Http\RedirectResponse
16         */
17         public function handle(Request $request, Closure $next)
18         {
19             if (!Session()->has('login_id')) {
20                 return redirect('login')->with(['msg'=>'You have to login first']);
21             }
22             return $next($request);
23         }
24     }
25

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
+ + + + + x
2023-02-16 12:21:40 /assets/images/avatars/avatar-3.png ..... ~ 0s
2023-02-16 12:21:40 /assets/images/avatars/avatar-4.png ..... ~ 0s
2023-02-16 12:21:40 /assets/images/avatars/avatar-5.png ..... ~ 0s
2023-02-16 12:21:40 /assets/images/avatars/avatar-6.png ..... ~ 0s
2023-02-16 12:21:40 /assets/fonts/lineicons.woff2 ..... ~ 0s
powershell
powershell
powershell
powershell
Activate Windows
Go To Settings to activate Windows
File Edit Selection View Go Run Terminal Help
OUTLINE
TIMELINE
```

**Figure 24.2:** Coding Convention of Auth Check Page (Middleware)

### 24.3. Coding Convention of Table Creation

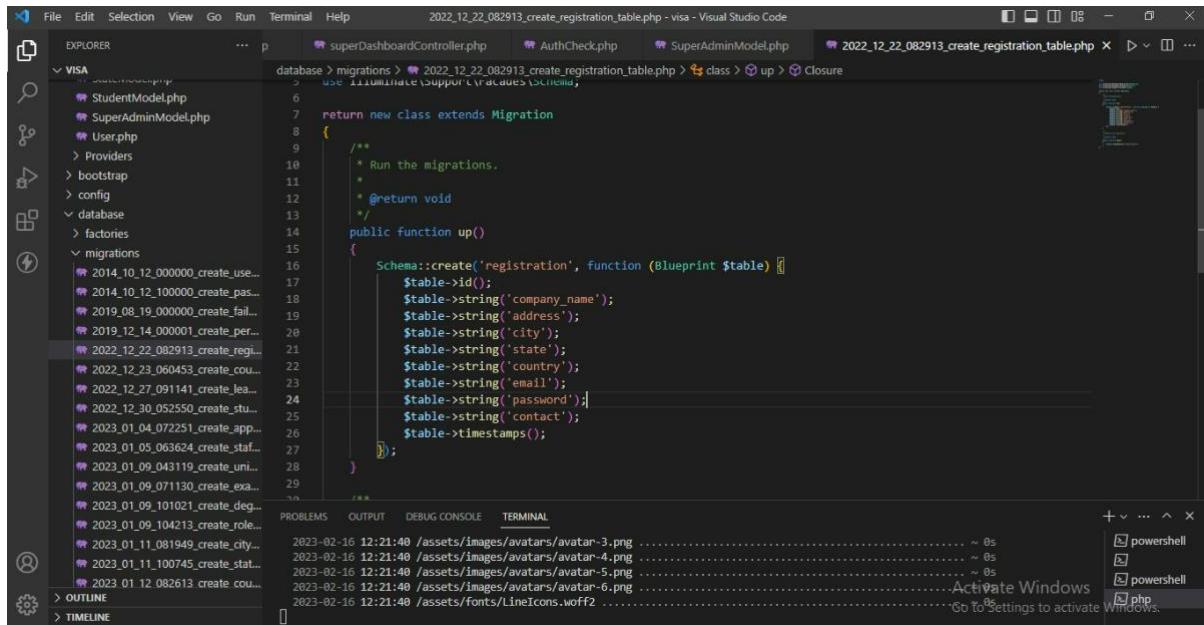


The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under the 'app' directory, including 'Http', 'Controllers', 'Models', and 'Middleware' folders.
- Terminal:** Displays the command line output of running artisan commands:
  - `php artisan serve`: INFO Server running on [http://127.0.0.1:8000]. Press Ctrl+C to stop the server.
  - `php artisan make:migration create_student_table`: INFO Migration [2023\_02\_16\_070657\_create\_student\_table] created successfully.
  - `php artisan make:controller StudentController`: INFO Controller [C:\akash\htdocs\j\app\http\Controllers\StudentController.php] created successfully.
  - `php artisan make:model StudentModel`: INFO Model [C:\akash\htdocs\j\app\Models\StudentModel.php] created successfully.
  - `php artisan make:middleware AuthCheckMiddleware`: INFO Middleware [C:\akash\htdocs\j\app\Http\Middleware\AuthCheckMiddleware.php] created successfully.
- Bottom Status Bar:** Shows 'Activate Windows' and 'Go to Settings to activate Windows.'

Figure 24.3: Coding Convention of Table Creation

### 24.4. Coding creation of Inserting fields into Table



The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under the 'VISA' directory, including 'database', 'factories', and 'migrations' folders.
- Terminal:** Displays the command line output of running artisan commands:
  - `php artisan migrate`: INFO Illuminate\Support\Facades\Schema was called with the arguments [use Illuminate\Support\Facades\Schema].
  - `use Illuminate\Support\Facades\Schema;`
  - `return new class extends Migration`
  - `{`
  - `Schema::create('registration', function (Blueprint $table) {`
  - `$table->id();`
  - `$table->string('company_name');`
  - `$table->string('address');`
  - `$table->string('city');`
  - `$table->string('state');`
  - `$table->string('country');`
  - `$table->string('email');`
  - `$table->string('password');`
  - `$table->string('contact');`
  - `$table->timestamps();`
  - `});`
  - `}`
  - `/**`
  - `* Run the migrations.`
  - `*`
  - `* @return void`
  - `*/`
  - `public function up()`
  - `{`
  - `}`
  - `}`
- Bottom Status Bar:** Shows 'Activate Windows' and 'Go to Settings to activate Windows.'

Figure 24.4: Coding Convention of Inserting Fields into Table

## 24.5. Coding Convention of Add Lead Page

```

File Edit Selection View Go Run Terminal Help AddLeadController.php - visa - Visual Studio Code
EXPLORER ... web.php viewcountry.blade.php CountryController.php AddLeadController.php addcountry.blade.php
VISA app > Http > Controllers > AddLeadController.php > PHP Intelephense > AddLeadController > update
    56     });
    57     //Insert Query
    58     $lead = new AddLeadModel();
    59     $lead->lead = $request['lead'];
    60     $lead->date = $request['date'];
    61     $lead->name = $request['name'];
    62     $lead->address = $request['address'];
    63     $lead->email = $request['email'];
    64     $lead->lead_quality = $request['lead_quality'];
    65     $lead->application = $request['application'];
    66     $lead->city = $request['city'];
    67     $lead->state = $request['state'];
    68     $lead->country = $request['country'];
    69     $lead->contact_date = $request['contact_date'];
    70     $lead->inquiry = $request['inquiry'];
    71     $lead->job_position=$request['job_position'];
    72     $lead->sales_person = $request['sales_person'];
    73     $lead->mobile_no = $request['mobile_no'];
    74     $lead->tags = $request['tags'];
    75
    76     $lead->gender=$request['gender'];
    77     $lead->marital_status = $request['marital_status'];
    78     $lead->dob = $request['dob'];
    79
    80     $lead->course = $request['course'];
    81     $lead->university = $request['university'];
    82     $lead->degree = $request['degree'];
    83     $lead->start_date = $request['start_date'];
    84     $lead->end_date = $request['end_date'];
    85
    86     $lead->employer_name=$request['employer_name'];
    87     $lead->position=$request['position'];
    88     $lead->work_start_date=$request['work_start_date'];
    89     $lead->work_end_date=$request['work_end_date'];
    90
    91     $lead->visa_country = $request['visa_country'];
    92     $lead->visa_type = $request['visa_type'];
    93
    94
    95
  
```

Figure 24.5: Coding Convention of Add Lead Page

## 24.6. Coding Convention of Add Student Page

```

File Edit Selection View Go Run Terminal Help AddStudentController.php - visa - Visual Studio Code
EXPLORER ... 2022_12_27_091141_create_lead_table.php AddApplicationController.php AddExamController.php AddStudentController.php
VISA app > Http > Controllers > AddStudentController.php > PHP Intelephense > AddStudentController
    31     });
    32     //Insert Query
    33     $student = new StudentModel();
    34
    35     $student->student_id = $request['std_id'];
    36     $student->firstname = $request['fname'];
    37     $student->lastname = $request['lname'];
    38     $student->gender = $request['gender'];
    39     $student->dob = $request['dob'];
    40     $student->marital_status = $request['marital_status'];
    41     $student->contact = $request['contact'];
    42     $student->course = $request['course'];
    43     $student->date_created = $request['date_created'];
    44     $student->address = $request['address'];
    45     $student->status = $request['status'];
    46
    47     $student->save();
    48
    49     if ($student) {
    50         return redirect('/viewstudent')->with(['msg' => 'Added Successfully', 'icon' => 'success']);
    51     } else {
    52         return redirect('/viewstudent')->with(['error', 'Error']);
    53     }
    54
    55
    56
    57
    58
    59
    60
    61
    62
    63
    64
    65
    66
    67
    68
    69
    70
  
```

Figure 24.6: Coding Convention of Add Student Page

## 25. What Is Testing

- Testing is the process of evaluating a system or its components with the intention to find whether it satisfies the specified requirements or not.
- It is the process of executing a program to find errors. To make our software perform well, it should be error free.
- If testing is done successfully, it will remove all the errors from the software. The process of software testing aims not only at finding faults in the existing software but also at finding measures to improve the software in terms of efficiency, accuracy, and usability.
- It mainly aims at measuring specification, functionality and performance of a software program or application.

## 26. Test Strategy

- A test strategy is an outline that describes the testing approach of the software development cycle. The purpose of a test strategy is to provide a rational deduction from organizational, high-level objectives to actual test activities to meet those objectives from a quality assurance perspective.
- The test strategy describes the test level to be performed. There are primarily three levels of testing: unit testing, integration testing, and system testing. In most software development organizations, the developers are responsible for unit testing. Individual testers or test teams are responsible for integration and system testing.

There are primarily three levels of testing:

- Unit testing.
- Integration testing.
- System testing.
- **Unit Testing:** Unit testing is a type of software testing that focuses on individual units or components of a software system. The purpose of unit testing is to validate that each unit of the software works as intended and meets the requirements.
- **Integration Testing:** Integration testing is a software testing technique that focuses on verifying the interactions and data exchange between different components or modules of a software application.
- **System Testing:** System testing is a type of software testing that evaluates the overall functionality and performance of a complete and fully integrated software solution. It tests if the system meets the specified requirements and if it is suitable for delivery to the end-users.

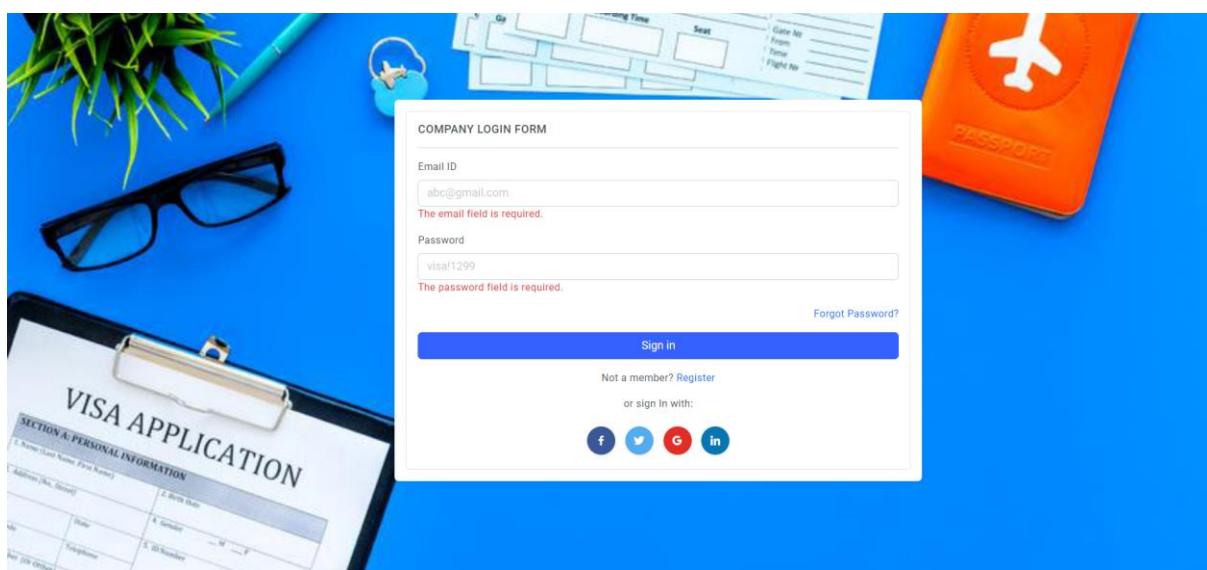
## 27. Test Cases

A test case is a defined format for software testing required to check if a particular application/software is working or not. A test case consists of a certain set of conditions that need to be checked to test an application or software i.e., in more simple terms when conditions are checked it checks if the resultant output meets with the expected output or not. Test cases are carried out for a very simple reason, to check if the software works or not. There are many advantages of writing test cases:

- Test cases help to check if a particular module/software is meeting the specified requirement or not.
- Test cases determine if a particular module/software work with a given set of conditions.

### **Test Case Report:**

- **Super Admin/ Admin/ Student Login:**



Test Case Report of Login page of System Users

- **Test Case Report of Lead Page**

The lead field is required.  
The date field is required.  
The name field is required.  
The email field is required.  
The address field is required.  
The inquiry field is required. State  
The city field is required. Country  
The state field is required.  
The country field is required.  
The sales person field is required.  
The mobile no field is required.  
The tags field is required.  
The gender field is required.  
The marital status field is required.  
The dob field is required.

**Test Case Report of Lead Page**

- **Test Case Report of Add Student**

The fullname field is required.  
The gender field is required.  
The dob field is required.  
The contact field is required.  
The course field is required.  
The address field is required.  
The status field is required.  
The father name field is required.  
The contact no 1 field is required.  
The mother name field is required.  
The contact no 2 field is required.  
The father occupation field is required.  
The mother occupation field is required.

**Test Case Report of Add Student Page**

- **Test Case Report of Create Application**

The screenshot shows the 'ADD APPLICATION' form. The 'Personal Details' section requires 'Application Number' (A-9900), 'First Name' (Firstname), 'Last Name' (Lastname), and 'Gender' (Select). The 'Educational Details' section requires 'Course' (Select), 'university' (Select), 'Applied for degree' (Select), and 'Start Date' (dd-mm-yyyy). The 'Visa Details' section requires 'End Date' (dd-mm-yyyy) and 'IELTS Score' (IELTS Score). Red validation messages appear for all required fields.

Test Case Report of Create Application Page

- **Test Case Report of Add University**

The screenshot shows the 'ADD UNIVERSITY' form. It requires 'University Name' (University Name), 'Year of Established' (Year of Established), 'Address' (Address lines...), 'Country' (Select), 'State' (Select), 'City' (Select), and 'Contact Number' (91-4785124785). Red validation messages are present for all required fields.

Test Case Report of Create Application Page

- **Test Case Report of Add Staff**

The screenshot shows the 'ADD STAFF' form. It includes fields for First Name (Firstname, Lastname, Select), Gender (Select), Contact Number (91-7485124789), Email (j@gmail.com), Password (Password), Marital Status (Select, Executive, Address lines...), Role (Select), Address (Address lines...), City (Select), State (Select), Country (Select), Status (Select), Salary (Salary), and Date Of Joining (dd-mm-yyyy). Red validation messages are present for all required fields: 'The firstname field is required.', 'The lastname field is required.', 'The gender field is required.', 'The contact no field is required.', 'The email field is required.', 'The password field is required.', 'The marital status field is required.', 'The address field is required.', 'The city field is required.', 'The state field is required.', 'The country field is required.', 'The status field is required.', 'The salary field is required.', and 'The joining date field is required.'

Test Case Report of Add Staff

- **Test Case Report of Add Role**

The screenshot shows the 'ADD ROLE' form. It includes fields for Staff Name (Staff Name, Designation) and Add Role. Red validation messages are present for both required fields: 'The staff name field is required.' and 'The designation field is required.'

Test Case Report of Add Staff

## 28. Future Enhancement

- **Collab:**

Our company has a collab with only one visa company but in future it may happen that company will collab with more visa company.

- **Notification:**

A notification system will also be developed for easy workflow.

- **Login from social media:**

Currently, login can be done from login form only, so we will make direct login from social media like Sign-in Google.

## 29. Reference and bibliography

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2. Laravel 5.7.\*. Middleware, Authenticate, Authorization Explained by Sanjib Sinha.
3. Laravel: Up & Running by Matt Stauffer.