



# Green University

## Primary School Management System (PSMS)

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# Outline

- ❖ Objective
- ❖ Motivation
- ❖ Background Study
- ❖ Tools & Techniques
- ❖ Work Flow Diagram
- ❖ Use Case Diagram
- ❖ Data Flow Diagram
- ❖ Features
- ❖ Gantt Chart
- ❖ Budget
- ❖ Conclusion
- ❖ Reference

# Objectives

- ❖ The purpose of school management system is to automate the existing manual system by the help of computerized equipment and full-fledged computer software.
- ❖ So that their valuable information can be stored for a longer period with easy access

# Motivation

- ❖ At present, primary school management systems are fairly analogue systems.
- ❖ Due to running on an analogue system, it is seen that there are many duplicate documents. Every document should be kept in a ledger so that resources are no longer available if lost or destroyed.
- ❖ So, if a software system can be developed through which these documents can be stored on an online server, duplicate data will not be generated, and data redundancy will be reduced.
- ❖ For this reason, we want to make software through which the functionality required according to the primary school category will be here

# Background Study

## ❖ Bidyaan

Bidyaan is an advanced Education Management System in Bangladesh. It simplifies the interaction among Administrator, HRM, Exam control, Teacher, Students, Parents,..

- This website does not have hostel services and transportation services
- Students cannot apply through this website

<https://www.bidyaan.com/>

# Background Study (Cont.)

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## ❖ Digital Pathshala

- The software provides the facility to carry out students, academic, and accounting activities and makes them fast, easy, efficient, and accurate, student subscription, examination, certification, reports generation, result generation, fee counter, library, payroll system and many more
- This website does not have a map, event calendar and transportation service schedule.

<http://extreme.com.bd/Software/school-student-software-chittagong>

# Background Study (Cont.)

## ❖ My Class Campus

- My Class Campus is designed to make school management digital and more advanced. The platform allows parents to view the profiles of their children, anytime, from anywhere.
- ❖ This platform not allows to generate notice board and transportation service schedule.

<https://myclasscampus.com/home>

# ❖ Tools & Techniques

## ❖ Frontend

React js

Next js-

Tailwind CSS

## ❖ Backend

Node js

GraphQL

## ❖ Database

PostgresQL

PrismaORM



# Work Flow Diagram

9

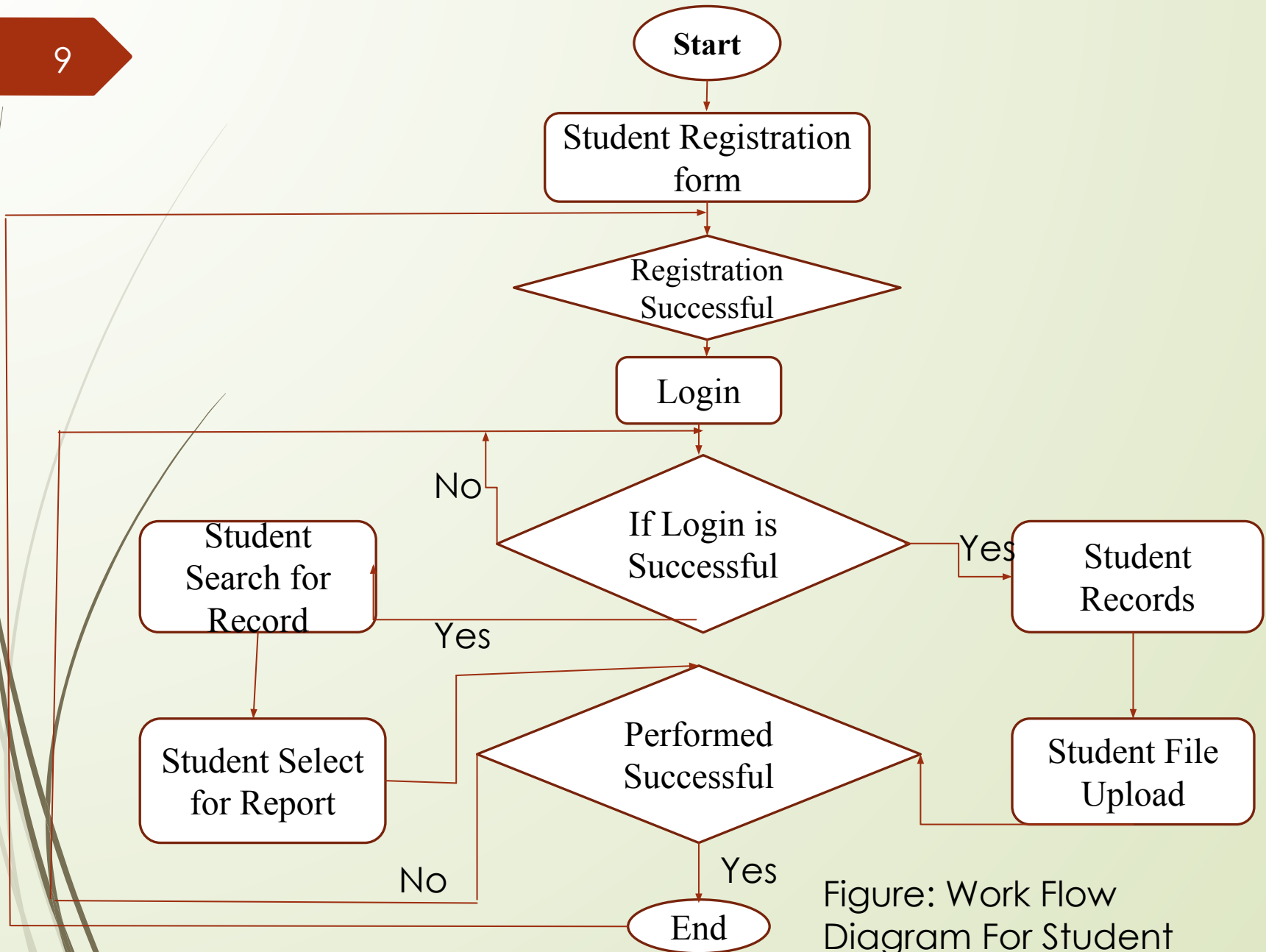


Figure: Work Flow Diagram For Student

# Use Case Diagram

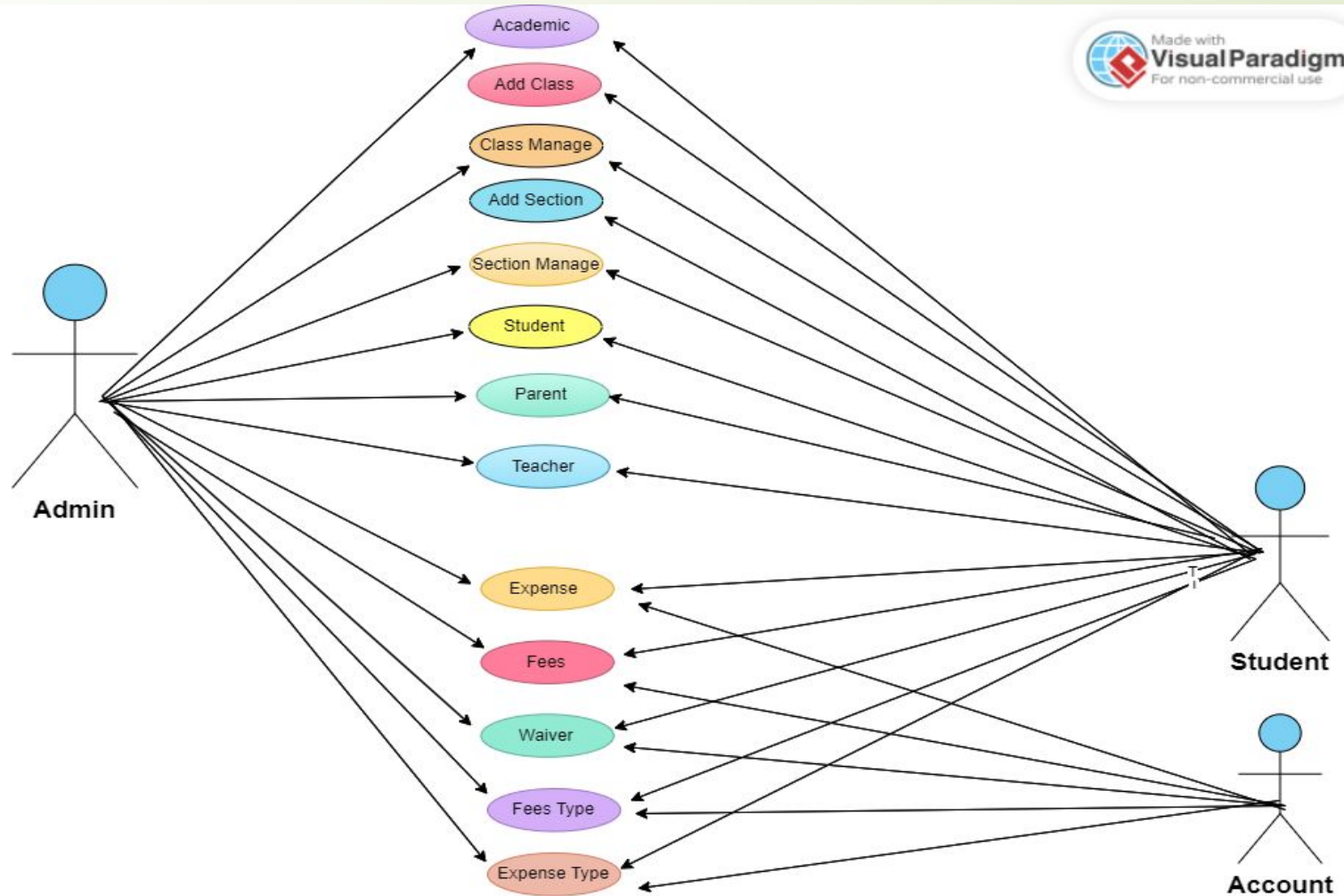


Fig: Use Case Diagram

# Data Flow Diagram Level 0

11

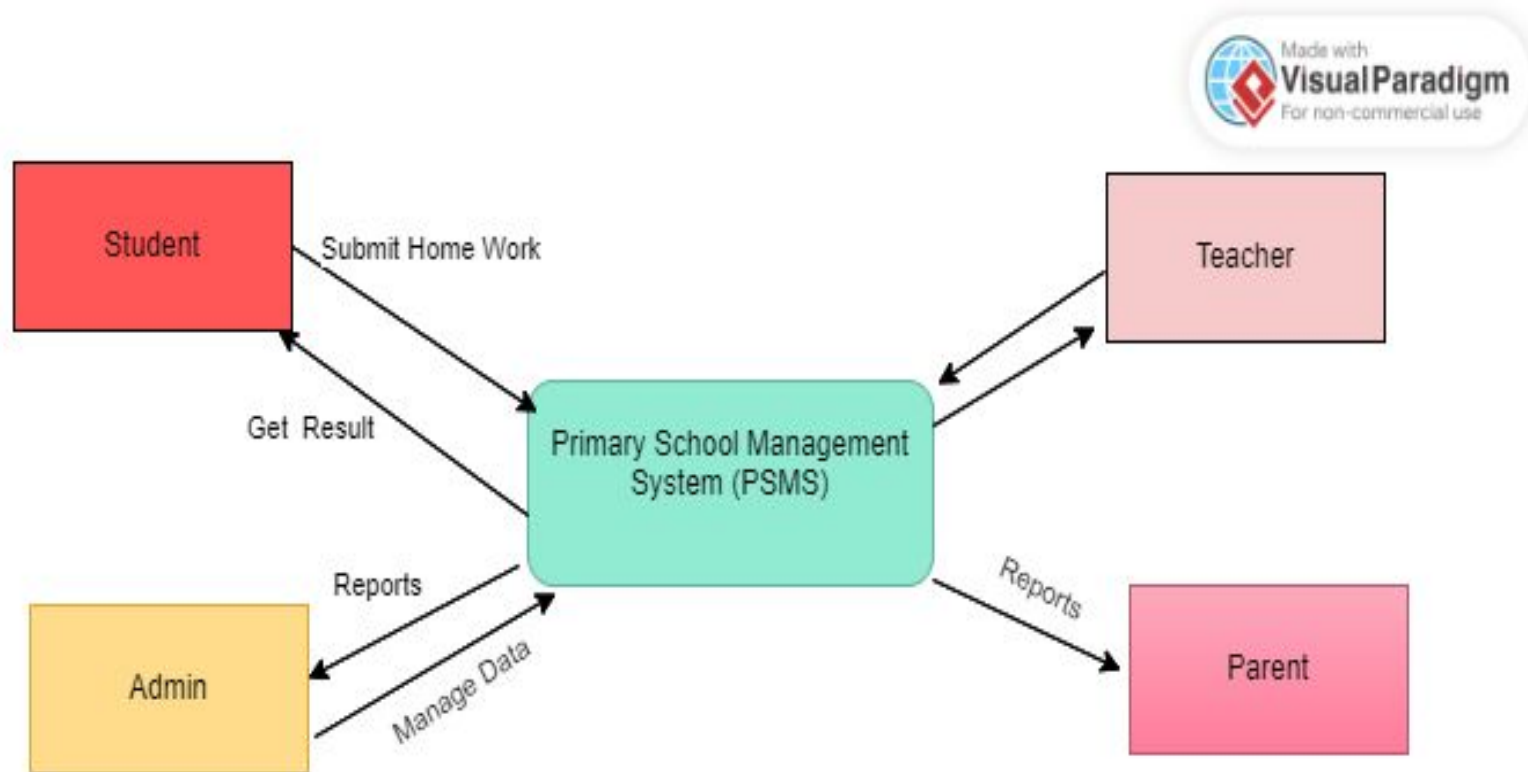
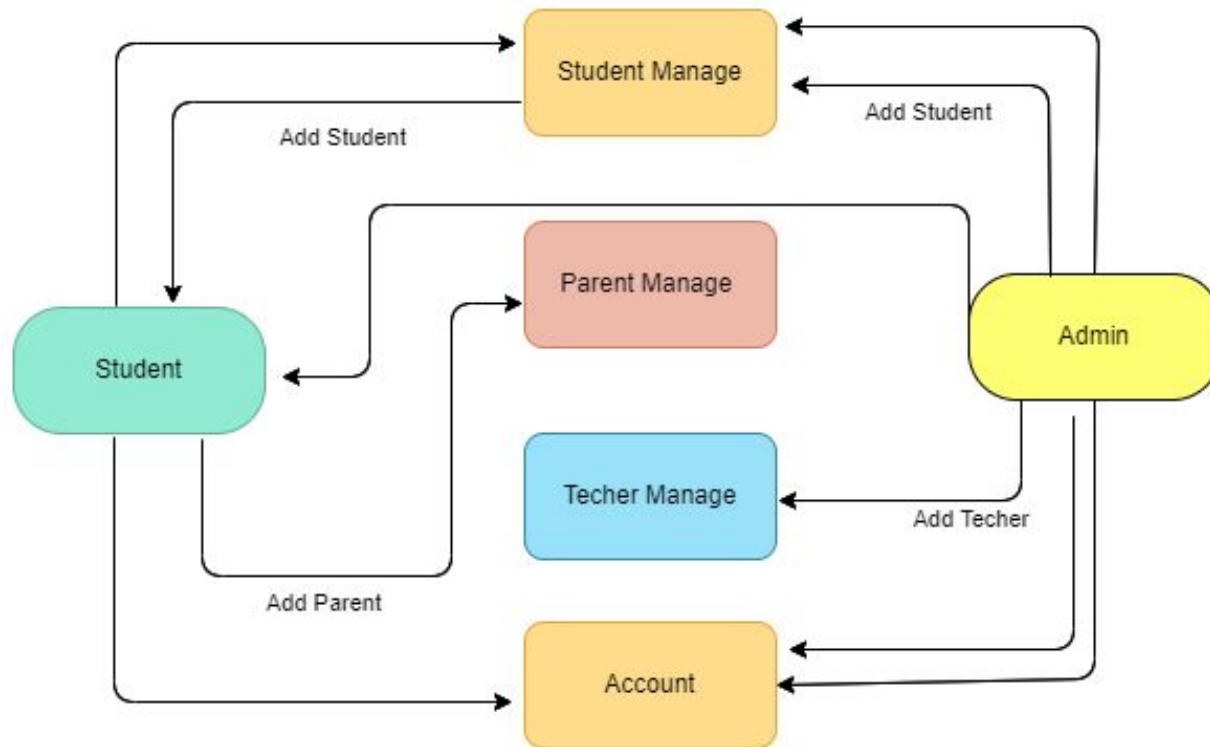


Fig: Data Flow Diagram Level 0

# Data Flow Diagram Level 1

12



**Fig: Data Flow Diagram Level 1**

# Features

In the proposed system we have several feature. These are: -

- ❖ Search
- ❖ Manage Students, Teachers, Staff, Parents and Users
- ❖ Manage Academic Year, Sections, Classes, Class Rooms, Subjects, Incomes, Expenses, HR
- ❖ Reports – Students, Teachers, Parents, Staff, Users, Products, Incomes & Expenses, Students & Staff Attendance, Visitors Log, Student Records, Class Lists, Events
- ❖ User Access Role

# Gantt Chart:

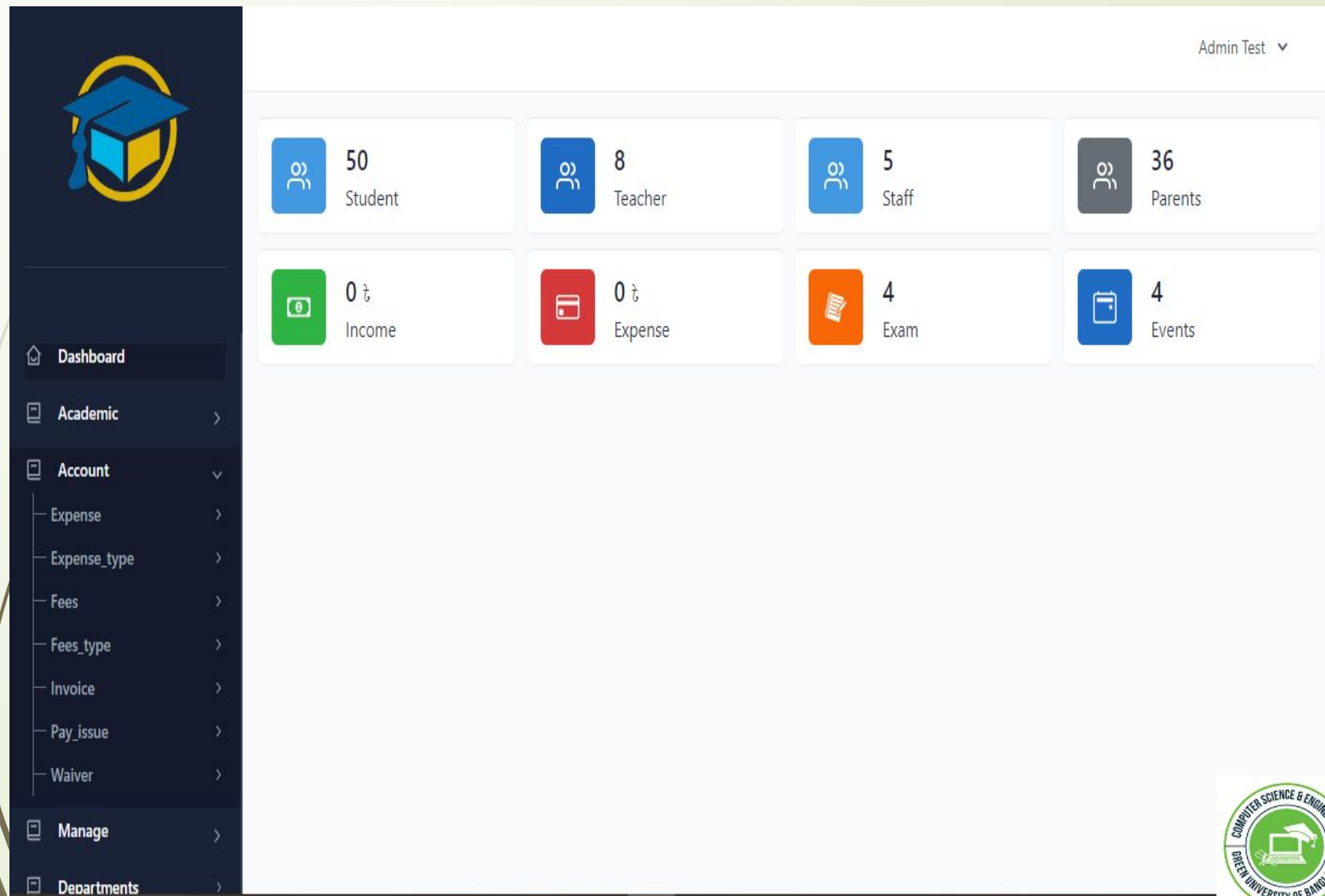
14

| Months             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------------------|---|---|---|---|---|---|---|---|
| Project Activities |   |   |   |   |   |   |   |   |
|                    |   |   |   |   |   |   |   |   |
| Planning           |   |   |   |   |   |   |   |   |
|                    |   |   |   |   |   |   |   |   |
| Design             |   |   |   |   |   |   |   |   |
|                    |   |   |   |   |   |   |   |   |
| Coding             |   |   |   |   |   |   |   |   |
|                    |   |   |   |   |   |   |   |   |
| Testing            |   |   |   |   |   |   |   |   |
|                    |   |   |   |   |   |   |   |   |
| Delivery           |   |   |   |   |   |   |   |   |
|                    |   |   |   |   |   |   |   |   |

# Budget:

| No. | Requirements                             | Unit Cost   | Estimated cost (Tk.) |
|-----|--|-------------|----------------------|
| 1.  | Jr. Web Developer (2 persons) (4 Months) | 5,000/month | 60,000               |
| 2.  | Sr. Web Developer (1 Month)              | 20,000      | 20,000               |
| 3.  | Domain Cost                              | -           | 5,000                |
| 4.  | Deployment Cost                          | --          | 20,000               |
| 5.  | Miscellaneous                            | --          | 9,000                |
|     | Total                                    |             | 114,000              |

# Implementation Progress




















# Implementation Progress (Cont.)

Admin Test ▾

Manage Class

Add New

Search by Name

| Name        | Sections   | Toal Student | Status | Actions   |
|-------------|--|--------------|--------|---|
| Class Three | Rose(1), Section A (4), Sacaton B(4), Sacaton C(2),                      | 11           | Active |          |
| Class One   | Section A(1), Sacaton B(6),  | 7            | Active |          |
| Class Two   | Section A(3), Sacaton B(4), Sacaton C(4),                                | 12           | Active |          |
| Class Four  | Sacaton A(3), Sacaton B(4), Sacaton C(3), Section B(0),<br>Section A(1), | 10           | Active |       |
| Class Five  | Section A(2), Section B(5), Sacaton C(3),                                | 10           | Active |    |

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# Implementation Progress (Cont.)



- Dashboard
- Academic >
- Account >
  - Expense >
  - Expense\_type >
  - Fees >
  - Fees\_type >
  - Invoice >
  - Pay\_issue >
    - Add Pay\_issue
    - Manage Pay\_issue
  - Waiver >

Admin Test ▼


Manage Pay Issue
Add New

| Name              | Amount | Issue Type | Description | Status | Created At   | Due Date     | Actions  |
|-------------------|--------|------------|-------------|--------|--------------|--------------|----------|
| Safin Islam       | 500    |            |             | Active | Mar 22, 2023 | Feb 3, 2023  | 👁️ ✎️ 🗑️ |
| Annual Final 2023 | 300    |            |             | Active | Mar 3, 2023  | Mar 15, 2023 | 👁️ ✎️ 🗑️ |
| Girls jersey      | 50     |            |             | Active | Mar 3, 2023  | Mar 10, 2023 | 👁️ ✎️ 🗑️ |

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# Implementation Progress (Cont.)



Dashboard

Academic >

Account >

Manage >

- Parent >
  - Add Parent
  - Manage Parent
- Student >
- Teacher >

Departments >

Admin Test ▾

Add parent

Manage Parent

FirstName\*

FirstName

LastName\*

LastName

Email\*

Email


Phone\*

Phone

Submit

Reset

# Implementation Progress (Cont.)



































- Dashboard
- Academic >
- Account >
- Manage >
  - Parent >
    - Add Parent
    - Manage Parent
  - Student >
  - Teacher >
- Departments >

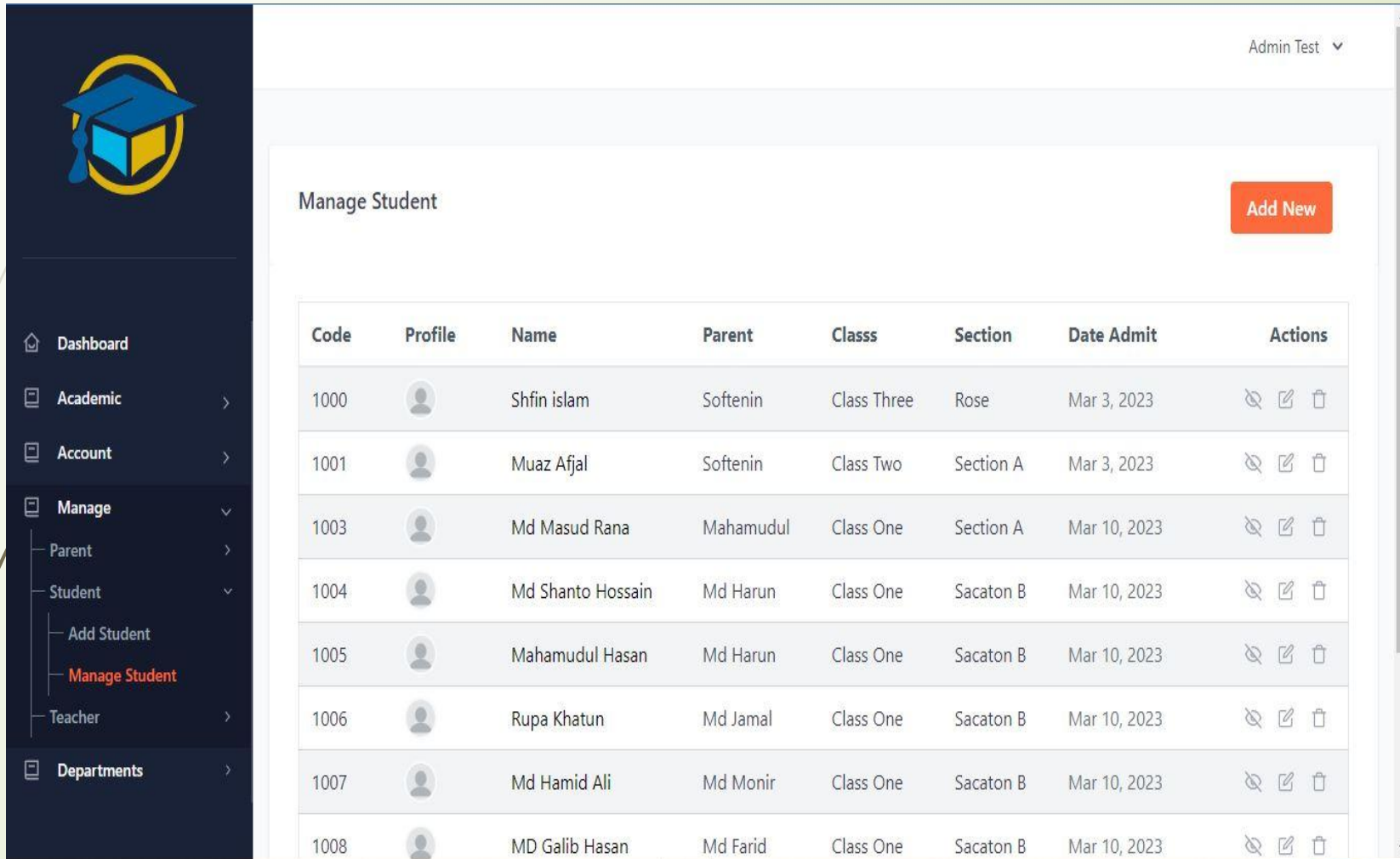
Admin Test ▾

Manage Parent

Add New

| Name          | Status | Email                    | Phone       | Image   | Actions   |
|---------------|--------|--------------------------|-------------|---|---|
| Aktar Ali     | Active | akterali45@gmail.com     | 01654348643 |    |          |
| Sohidul Islam | Active | sohidulislam34@gmail.com | 01876487368 |    |          |
| Sipon Ali     | Active | siponali54@gmail.com     | 01874653628 |    |          |
| Firoz Ali     | Active | fizozali34@mail.com      | 01876486475 |    |          |
| kharul Ali    | Active | khairulislam43@gmail.com | 0187647387  |    |          |
| Bablu Mia     | Active | bablumia56@gmail.com     | 01786456736 |  |    |
| Hafiz Uddin   | Active | hafizuddin34@gmail.com   | 01788765678 |  |    |
| Abu Thaer     | Active | abutaher45@gmail.com     | 01765345289 |  |    |

# Implementation Progress (Cont.)




The screenshot shows a web application for managing students. The sidebar on the left contains the following navigation items:

- Dashboard
- Academic
- Account
- Manage
  - Parent
  - Student
  - Add Student
  - Manage Student (highlighted in red)
  - Teacher
- Departments

The main content area is titled "Manage Student" and includes an "Add New" button. Below the title is a table with the following columns: Code, Profile, Name, Parent, Class, Section, Date Admit, and Actions.

| Code | Profile | Name              | Parent    | Class       | Section   | Date Admit   | Actions |
|------|---------|-------------------|-----------|-------------|-----------|--------------|---------|
| 1000 |         | Shfin islam       | Softenin  | Class Three | Rose      | Mar 3, 2023  |         |
| 1001 |         | Muaz Afjal        | Softenin  | Class Two   | Section A | Mar 3, 2023  |         |
| 1003 |         | Md Masud Rana     | Mahamudul | Class One   | Section A | Mar 10, 2023 |         |
| 1004 |         | Md Shanto Hossain | Md Harun  | Class One   | Sacaton B | Mar 10, 2023 |         |
| 1005 |         | Mahamudul Hasan   | Md Harun  | Class One   | Sacaton B | Mar 10, 2023 |         |
| 1006 |         | Rupa Khatun       | Md Jamal  | Class One   | Sacaton B | Mar 10, 2023 |         |
| 1007 |         | Md Hamid Ali      | Md Monir  | Class One   | Sacaton B | Mar 10, 2023 |         |
| 1008 |         | MD Galib Hasan    | Md Farid  | Class One   | Sacaton B | Mar 10, 2023 |         |

# Implementation Progress (Cont.)



Dashboard

Academic >

Account >

Manage >

- Parent >
- Student >
  - Add Student
  - Manage Student
- Teacher >

Departments >

Admin Test ▾

Add Student

Manage Student

Admit Code

1051

Fast Name\*

Last Name\*

Select a Class\* + -

Fast Name

Last Name

Select an option ▾

Select Parent\* + -

Select Waiver\* + -

Date Of Birth\* mm / dd / yyyy 📅


Select an option ▾

Select an option ▾

Submit

Reset

# Implementation Progress (Cont.)



































- Dashboard
- Academic >
- Account >
- Manage
  - Parent >
  - Student >
  - Teacher
    - Add Teacher
    - Manage Teacher
- Departments >

Admin Test ▾


Manage Teacher

Add New

| Image   | Name               | Email                     | Date of Birth | Status | Actions   |
|---|--------------------|---------------------------|---------------|--------|---|
|    | Habibur Rahman     | habiburrahman56@gmail.com | Apr 5, 2015   | Active |          |
|    | Habib Uddin        | habibuddin54@gmail.com    | Apr 3, 1978   | Active |          |
|    | Md Karim Hossain   | karimhoaasin@gmail.com    | Feb 3, 1978   | Active |          |
|    | MD Mamun Ur Roshid | raslmania07@gmail.com     | Jul 9, 1989   | Active |          |
|   | Md Masud Rana      | masudrana23@gmail.com     | May 6, 1978   | Active |       |
|  | Md Karim Hossain   | karimhossain43@gmail.om   | Feb 3, 1980   | Active |    |
|  | MD Mamun Ur Roshid | rmamun304@gmail.com       | Jun 15, 1998  | Active |    |
|  | Hasan Mahmud       | hm.hasan.info@gmail.com   | Mar 15, 2023  | Active |    |



# Implementation Progress (Cont.)



- Dashboard
- Academic >
- Account >
- Manage
  - Parent >
  - Student >
  - Teacher
    - Add Teacher
    - Manage Teacher
- Departments >

Admin Test ▾

Add teacher Manage Teacher

First Name\*

First Name


Last Name\*

Last Name

Email\*

Email

Date Of Birth\*

mm / dd / yyyy 

Submit

Reset



# Implementation Progress (Cont.)



- Dashboard
- Academic >
- Account >
  - Expense >
    - Add Expense
    - Manage Expense**
  - Expense\_type >
  - Fees >
  - Fees\_type >
  - Invoice >
  - Pay\_issue >
  - Waiver >

Admin Test ▾

Manage Expense

[Add New](#)

Amount

Type

Created At


Actions

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Show 10 ▾

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# Implementation Progress (Cont.)



- Dashboard
- Academic >
- Account >
  - Expense >
  - Expense\_type >
  - Fees >
    - Add Fees
    - Manage Fees
  - Fees\_type >
  - Invoice >
  - Pay\_issue >
  - Waiver >

Admin Test ▾

Manage Fees
Add New

Search by Code
Search by Name
Filter ↑

| Code  | Student name | Class       | Section   | Isseu                  | Amount(BDT) | Due(BDT) | Date Issued  | Status  | Add to Invoice |
|-------|--------------|-------------|-----------|------------------------|-------------|----------|--------------|---------|----------------|
| #1024 |              | Class Three | Section A | Safin Islam (Exam Fee) | 500         | 500      | Mar 22, 2023 | PENDING | +              |
| #1039 |              | Class Four  | Sacaton C | Safin Islam (Exam Fee) | 500         | 500      | Mar 22, 2023 | PENDING | +              |
| #1032 |              | Class Four  | Sacaton A | Safin Islam (Exam Fee) | 500         | 500      | Mar 22, 2023 | PENDING | +              |
| #1036 |              | Class       |           | Safin                  | 500         | 500      | Mar 22,      |         |                |

# Conclusion

- ❖ Primary Student management systems can be used by educational institutions to easily maintain their student records.
- ❖ Achieving this objective using manual systems is difficult because information is scattered, may be redundant, and collecting relevant information can be very time consuming.
- ❖ This arrangement helps the students of the institution to maintain information. It can be easily accessed by the manager and kept safe for a long time without any changes.

# Reference:

- 1] [www.bidyaan.com](http://www.bidyaan.com)
- 2] [www.extreme.com.bd](http://www.extreme.com.bd)
- 3] [my class campus.com](http://myclasscampus.com)



Thank  
You