

# **Bangladesh Army International University of Science and Technology (BAIUST)**

## **Department of CSE**



## **IMMS of Ambia Madrasah Project Report**

**Course Title:** System Analysis, Design & Development Sessional

**Course Code:** CSE-402

### **Submitted By:**

Md. Mehedi Hasan	1107011
Thasin Mahmud	1107025
Ahamed Jamil Bhuiyan	1107026
Md. Mahin Hossain Munna	1107031
Md. Imran Hossain Emu	1107048

### **Supervised By:**

Mohammad Robaitul Islam Bhuiyan  
Lecturer, Dept. of CSE, BAIUST.

### **State of Confidentiality**

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### **Signature of the Students**

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Md. Mehedi Hasan

### **Signature of the Project Supervisor**

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Thasin Mahmud

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Ahamed Jamil Bhuiyan

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Md. Mahin Hossain Munna

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Md. Imran Hossain Emu

## **Acknowledgement**

Bismillahir-Rahmanir-Rahim, At first, we need to show thankfulness to our Almighty, giving us the strength and tolerance to see through the consummation of this task effectively. Without His unlimited favors, it would have not been possible to finish such a job inside the given time. We might likewise want to show our genuine appreciation to our undertaking boss and course instructor **Mohammad Robaitul Islam Bhuiyan** for his unending help and management. His help all through the undertaking has assisted us with better comprehending the errand we are to perform, and the outcome we are to deliver. He assisted us with investigating matters that would have been disregarded.

Date: September, 2021

The Author,

Department of Computer Science and Engineering,

Bangladesh Army International University of Science and Technology.

## **Abstract**

System Analysis and Design is a bunch of steps that takes into account the assortment of realities of a framework and dissects those realities to reach a resolution with respect to the manners in which the framework is to work. It tends to be carried out in any area that necessities arranging. For sure, in the advanced time of innovation and industry, where an uncountable measure of realities might emerge for any issue, System investigation and Design have turned into an absolute necessity for any fruitful framework. In the cutting edge period, practically all frameworks include a variety of partners. Everyone needs the framework to work with a particular goal in mind. But, the framework should likewise make an honest effort to meet all the client prerequisites. To do this, it should see all the client necessities, both Explicit or expressed ones, and Implicit or stowed away ones. Thereafter, the framework architect needs to decide the achievability of these prerequisites, request them as indicated by significance, and settle the prerequisites. He may likewise need to discover the weaknesses of a current framework, either to execute a comparative framework or to adjust the current framework. For which, we need to discover the issues, and think of attainable arrangements.

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# **Chapter I: Introduction**

## **1.1: Organization Overview**

### **Name**

Ambia Madrasah.

### **Location**

West Deovog, Munshigonj, Dhaka

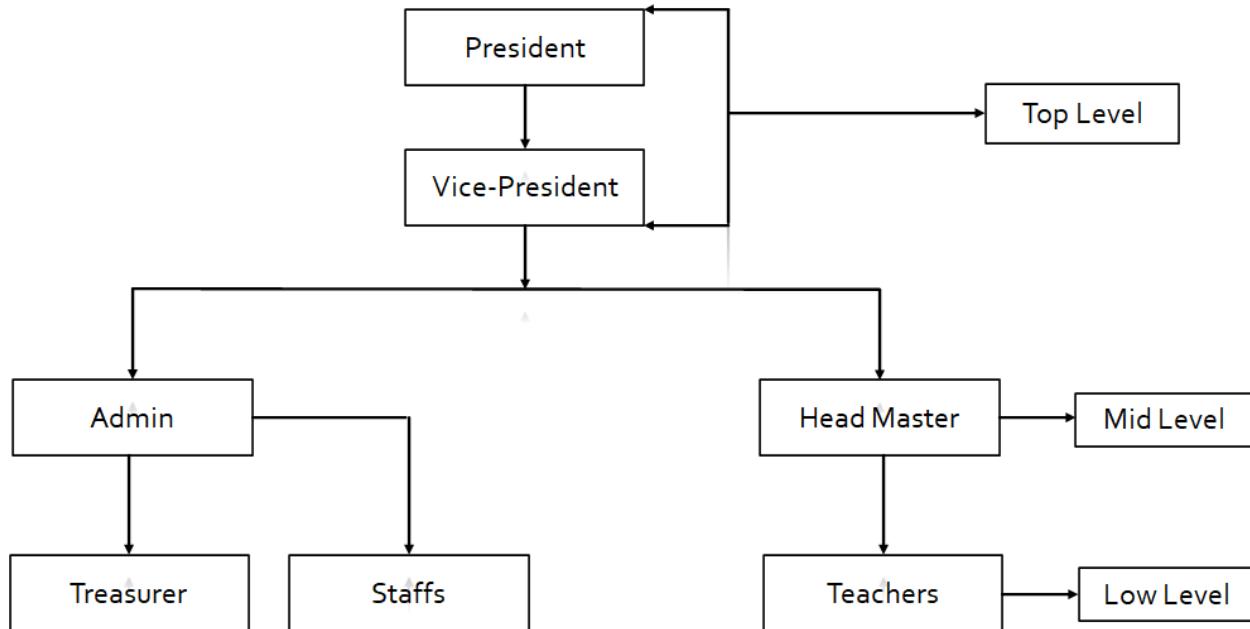
### **History**

Ambia Madrasa was established on March 15, 2015. It is located west deovog Munshiganj near Dhaka. The Madrasa provides education to its students in Bengali (Morning & Day) and Arabic (Morning & Day) language versions under the national curriculum. Students are admitted into the institution in Ibtedaie, Dakhil and Hafiz branches. The Madrasa has around 400 students and employs more than 10 teaching staff and more than 25 other staff.

The construction of the main academic building was completed in 2015 and the Hafiz section was formally inaugurated in the academic year 2017 by the founder Haji Mohammad Foysal Biplob. Due to acute shortage of infrastructural facilities, another development project for the construction of a new building was taken up in 2018 which was completed in two phases and the campus took its present shape in 2020.

Admission to Ambia Madrasa is competitive. Applicants have to pass a written test and an oral test in order to qualify. Admission tests for the Ibtedaie and Dhakil are generally held in December and academic sessions begin in January.

## 1.2: Management Hierarchy



**Figure: Management Hierarchy**

## 1.3: Functions

Madrasah management system is an attempt to simulate the main management system. It enables to perform this operations -

1. Full Web-view of the Institution,
2. Maintaining the student's information
3. Maintaining the teacher's information.
4. Provide all the necessary PDFs of books for all classes.
5. Admission System Panel.
6. Teacher's List & Information.
7. Committee List & Information.
8. Notice Board.
9. Admin Panel.
10. All the data are Dynamic which can be edited by Admin.
11. Admin can change the website also and all the data.

## **Chapter II: Analysis of the System**

### **2.1: Document Flow Diagram**

#### **What is a Document Flow Diagram?**

A document-flow diagram depicts various entities or offices and documents generated/transmitted by these entities.

#### **Steps for document-flow diagram:**

- Step 1: Analysis statement
- Step 2: Identify physical entities
- Step 3: Identify documents which are received/sent by each entities or offices
- Step 4: Draw a physical document Flow Diagram

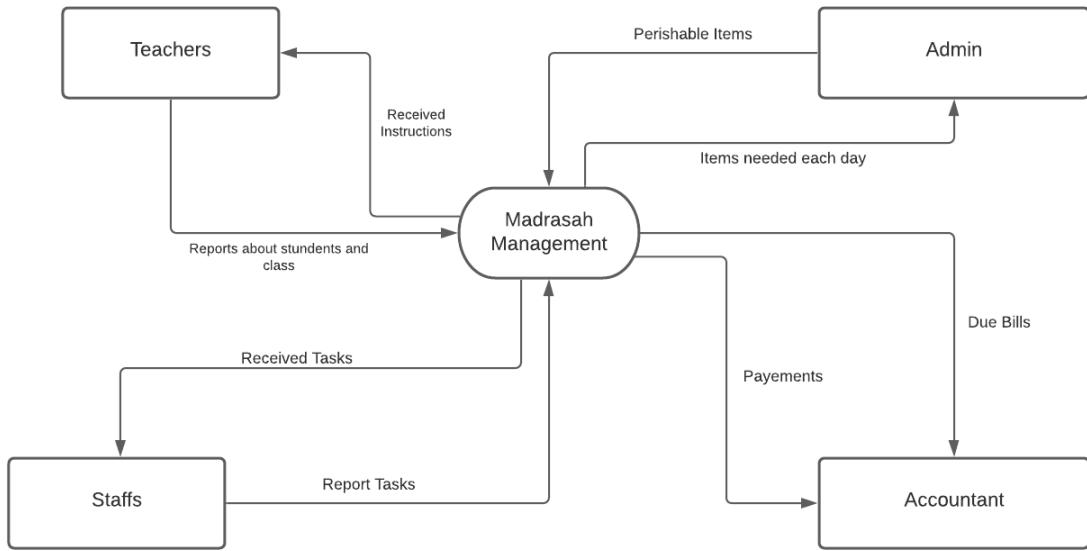
#### **Why document flow diagrams?**

- To document a process for better understanding, quality control and training of employees.
- To standardize a process for optimal efficiency and repeatability.
- To study a process for efficiency and improvement. It helps to show unnecessary steps, bottlenecks and other inefficiencies.
- To model a better process or create a brand-new process.
- To communicate and collaborate with diagrams that speak to various roles in the organization or outside of it.

### **2.2: Purpose of Data flow diagram**

A data flow diagram contains the whole working procedure of the system. In the organization the necessity of the data flow diagram (DFD) is enormous. To maintain the flow of the data from the low-level hierarchy to the high-level hierarchy.

## 2.3: Diagram



**Figure:** Existing System data flow diagram for management system

## 2.4: Explanation of DFD

From the current Data Flow Diagram, Teachers are given instructions by Madrasah Management and they also report about their instruction. Staff of the Madrasah received and reported their tasks. Also Accountants receive due bills and payments.

Also, Admin receives items needed each day and also provides those items.

## 2.5: Limitations of the Current System

- No fixed registry for students.
- No existing website and Digitalized Database for management system.
- No digital system to collect the fees.

## **Chapter III: Alternative Proposal**

### **3.1 Goals**

- To digitize Ambia Madrasah's Management System.
- To make Ambia Madrasah's database more easy to maintain.
- It deals with monitoring the information and transactions.
- All the fields are validated and do not take in valid values.
- For offline, collect the registry in a word file then upload it in the database.

### **3.2 Sub Goal**

- All information is provided.
- Itemize all the quantities with dates.
- Fully meaningful facebook page.
- By posting on facebook all the notifications are stored in the website mail.
- Followers can engage with the ebook system of it's book collection.
- To make it more sufficient for the users.
- To make it more user friendly.
- For the old data we provide a system that stores all the data to the database.
- To make it more secure we will ensure for the future networking update and also system update.

## **Chapter IV: Feasibility Analysis**

### **4.1 Feasibility Analysis**

Feasibility analysis is the preliminary study of confirming that a strategy, plan or design is possible and makes sense. This can be used to validate assumptions, constraints, decisions, approaches and business cases. A well-designed feasibility study should provide a historical background of the business or project, a description of the product or service, accounting statements, details of the operations and management, marketing research and policies, financial data, legal requirements and tax obligations.

#### **1. Economic Feasibility**

- i. Not very expensive.
- ii. Users require no special training for operating the system.
- iii. Don't need a lot of money for maintenance.

#### **2. Technical Feasibility**

- i. Our Proposed System is Technically Possible.
- ii. It can be easily developed by a developer.

#### **3. Operational feasibility**

- i. Guaranteed accuracy and Security.
- ii. Easy to operate.

### **4.2 Cost Benefit Analysis**

- Computer, UPS, Printer = 90000tk
- System analyst = 20000tk
- Programmer = 20000tk
- Maintenance per month = 1000tk
- Maintenance per month = 1000tk
- Saving per month = 10000tk
- Cost recovered in  $130000/10000 = 13$  months(approximately)

## Chapter V: Project View

### 5.1: Main Website View:

The screenshot shows the homepage of the Ambia Madrasa website. At the top, there is a banner with the text "আম্বিয়া মাদ্রাসা" (Ambia Madrasa) in Bengali, followed by "শিক্ষা, প্রগতি, শান্তি" (Education, Progress, Peace). Below the banner, there is a photograph of a room with students sitting on the floor. A small notice at the bottom of the banner reads: "\*\*\*Covid-19 CHIEFLY STUDENTS ARE NOT PRESENT IN THE CLASSROOMS :: No mask No service :: Admission going on 2021-22\*\*\*". The main content area features three cards: "AMBIA" (Ambia Madrasa was established on March 15, 2015. It is located west deevog Munshigonj near Dhaka. The Madrasa provides education to its students in Bengali...), "Life At AMBIA" (Find out what you can expect from student life in Ambia madrasha and discover why Ambia madrasha is one of the best most exciting madrasha to study. Our flexible....), and "Hostel facilities" (Find out what you can expect from student life in BAIUST and discover why BAIUST is one of the world's most exciting university to study. Our flexible programmes, ....). Below these cards is a section titled "Messages" featuring portraits of three men: Haji Mohammad Foysal Biplob, Md. Jahirul Haque Selim, and Md. Mostaq Hossain, each with a "Read More" button. Further down are sections for "Branches" (Ibtedaie Branch, Dhakil Branch, Hafiz Branch) and "Contact us" (Message here form and Google Map).

**AMBIA**  
Ambia Madrasa was established on March 15, 2015. It is located west deevog Munshigonj near Dhaka. The Madrasa provides education to its students in Bengali....

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**Life At AMBIA**  
Find out what you can expect from student life in Ambia madrasha and discover why Ambia madrasha is one of the best most exciting madrasha to study. Our flexible....

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**Hostel facilities**  
Find out what you can expect from student life in BAIUST and discover why BAIUST is one of the world's most exciting university to study. Our flexible programmes, ....

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**Messages**

**Haji Mohammad Foysal Biplob**  
Founder of AMBIA MADRASHA  
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**Md. Jahirul Haque Selim**  
Co Founder of AMBIA MADRASHA  
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**Md. Mostaq Hossain**  
Co Founder of AMBIA MADRASHA  
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**Branches**

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West Deevog Munshigonj,  
Dhaka

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Phone : 081-73920  
Mobile: 01953894007

The map shows the location of Ambia Madrasa in Cumilla, Bangladesh. Key landmarks include Cumilla Cantonment, Moynamoti, Alekharchar, Miami Restaurant, Comilla, Dhammasagar, Cumilla Medical College Hospital, and various roads like Kotbari Highway, Jame Mosque Road, and Comilla Highway.

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## About Ambia

Ambia Madrasa was established on March 15, 2015. It is located west deovog Munshigonj near Dhaka. The Madrasa provides education to its students in Bengali (Morning & Day) and Arabic (Morning & Day) language versions under the national curriculum. Students are admitted into the institution in Ibtediae, Dhakil and Hafiz branches. The Madrasa has around 400 students and employees more than 10 teaching staff and more than 25 other staff.

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## LIFE OF AMBIA



Find out what you can expect from student life in Ambia and discover why Ambia is one of the best exciting Madrasa to study. Our flexible study, world-class facilities and award-winning support services combine to ensure your madrasa experience is exceptional and unique. We believe our flexible performance will give you the best chance of success in your future career. They allow you to try a range of subjects before specialising. Even if you know exactly what you want to do, you can study additional subjects and add depth to your education. By the time you graduate your breadth of knowledge will be highly prized by employers, giving you the best chance of success in your chosen field. Study support: We provide help and guidance on how to study most effectively. We have invested efforts to enhance your student experience and provide support and guidance that are second to none. We will work closely with you to help you: become a confident, independent learner and play an active part in the Madrasa community; and develop the personal attributes required for success at the madrasa and beyond.

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**Founder Message**

**Haji Mohammad Foysal Biplob**  
**Founder of AMBIA MADRASHA**

It is a great pride and pleasure for me to be associated with Ambia Madrasa at a moment when it is in the swim of getting digitized. I appreciate its recent move to launch its own Website, namely, "infoambia.edu.bd". It is a time befitting initiative to meet the challenges of high-tech contemporary world. In an age of globalization and information technology, the importance of digitizing the educational institutions can hardly be overemphasized.

Once we dreamt of changing the future with the strength of technology. Now it is the time to materialize our dream. Ambia Madrasa has already started its journey in that direction. I am happy to learn that it has computerized its accounts and installed student and teacher management software. The entrance of Ambia Madrasa into the global network through its own website would help it flourish further in its distinctive color. It would certainly add a new dimension to the continued successes of this institution that has already established its reputation as a role model across the country. I firmly believe that similar steps by other educational institutions will pave the way to transform our country into an IT-based society and translate our dream of 'Digital Bangladesh' into a reality.

In fine, I would like to convey my heartfelt congratulations and sincere thanks to the Principal and other exponents working relentlessly to implement the electronic devices.

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## Co Founder Message



**Md. Mostaq Hossain**  
**Co Founder of AMBIA MADRASHA**

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## Co Founder Message



**Md. Jahirul Haque Selim**  
**Co Founder of AMBIA MADRASHA**

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**Ibtediae Branch**

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localhost/we/dakhl.php

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localhost / 127.0.0.1 / ambia\_m... About us Admission

localhost/we/dakhil.php

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AMBIA MADRASA

ADDRESS  
West Deovog, Munsigonj,  
Dhaka

CONTACT US  
Email : info@ambia.edu.bd  
Phone : 081-73920  
Mobile: 01951894007

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localhost / 127.0.0.1 / ambia\_m... Hafiz branch Admission

localhost/we/Hafiz.php

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AMBIA MADRASA

HOME ADMISSION TEACHERS COMMITTEE NOTICE AND NEWS

Addmission

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Notice and news

## Hafiz Branch

### হাফিজিয়া স্কুলের বই

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**HOME** **ADMISSION** **TEACHERS** **COMMITTEE** **NOTICE AND NEWS**

Admission  
Teachers  
Committees  
Notice and news

## Welcome to Admissions

Ambia Madrasa is one of the best madrasas in Munsiganj. Here high quality education is given by experienced teachers. At present there are three sections namely Ibtediae, Dakhil, Hefiz.

**Admission fees:**

DIVISION	FEE
Ibtediae Branch	2000
Dhakil Branch	1200
Hafiz Branch	1000

**Apply for admission**

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Dhaka

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Phone : 081-73920  
Mobile: 01951894007

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যে মানুষগুলো তোমাকে বলে, “তুমি পারো না” বা “তুমি পারবেই না”, তারাই সম্ভবত সেই লোক যারা ভয় পায় এটা ভেবে যে; তুমি পারবে!“  
--এ.পি. জে আব্দুল কালাম

[Learn More →](#)

### Admission Form

Student Name	Class
<input type="text"/>	<input type="text"/>
Gurdian Name	Shift
<input type="text"/>	<input type="button" value="Select"/>
Contact	Blood Group
<input type="text"/>	<input type="text"/>
Email	Division
<input type="text"/>	<input type="button" value="N/A"/>
Address	<input type="button" value="Submit"/>

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## Our Teachers

Education is the backbone of the nation. The artisan of making this spine is the teacher. If a country is free from corruption and a beautiful mindset is formed in everyone, We firmly believe that there will be three types of people in social life who can bring about change. They are father, mother and teacher.



Hafiz Md. Ali Mortaja

Headmaster

Email: alimortaja234@gmail.com



Ahamed Jatal Hossain

Assistant Headmaster

Email: amanuddinjalal12@gmail.com



Abu Md. Kader

Teacher

Email: kader123@gmail.com



Abdul Halim Khan

Teacher

Email: abdulhalim10@gmail.com



Sadat Islam

Teacher

Email: sadatislam010@gmail.com



Hafiz Kamal Hossain

Teacher

Email: kamalhossain@gmail.com



HAFIZ DAWLAT HASSAIN

Teacher

Email: dawlat155@gmail.com



ADDRESS  
West Deming Marginal,  
Mymensingh

CONTACT US:  
Email : info@kamalaha.edu.bd  
Phone : 0293-279020  
Mobile: 017055884607

Website: [kamalaha.org](#)

localhost / 127.0.0.1 / db\_admins Committee

localhost/we/committees.php

HOME ADMISSION TEACHERS COMMITTEE NOTICE AND NEWS



## Madrasa Committee

### Members Panel



**Hazi Kawser Ali**  
finance committee  
  
Email:kawserali@hmail.com



**Hazi Mirja Borkot-Ulla**  
finance committee  
  
Email:mirja@gmail.com



**Hazi Nasir Ali**  
Discipline Committee  
  
Email:nasir124@gmail.com



**Hafiz Md.Ali Mortaja**  
Discipline Committee  
  
Email:alimurtaza@gmail.com



**Hazi Ali Mahmud**  
finance committee  
  
Email:Ali127@gmail.com



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Dhaka

**CONTACT US**  
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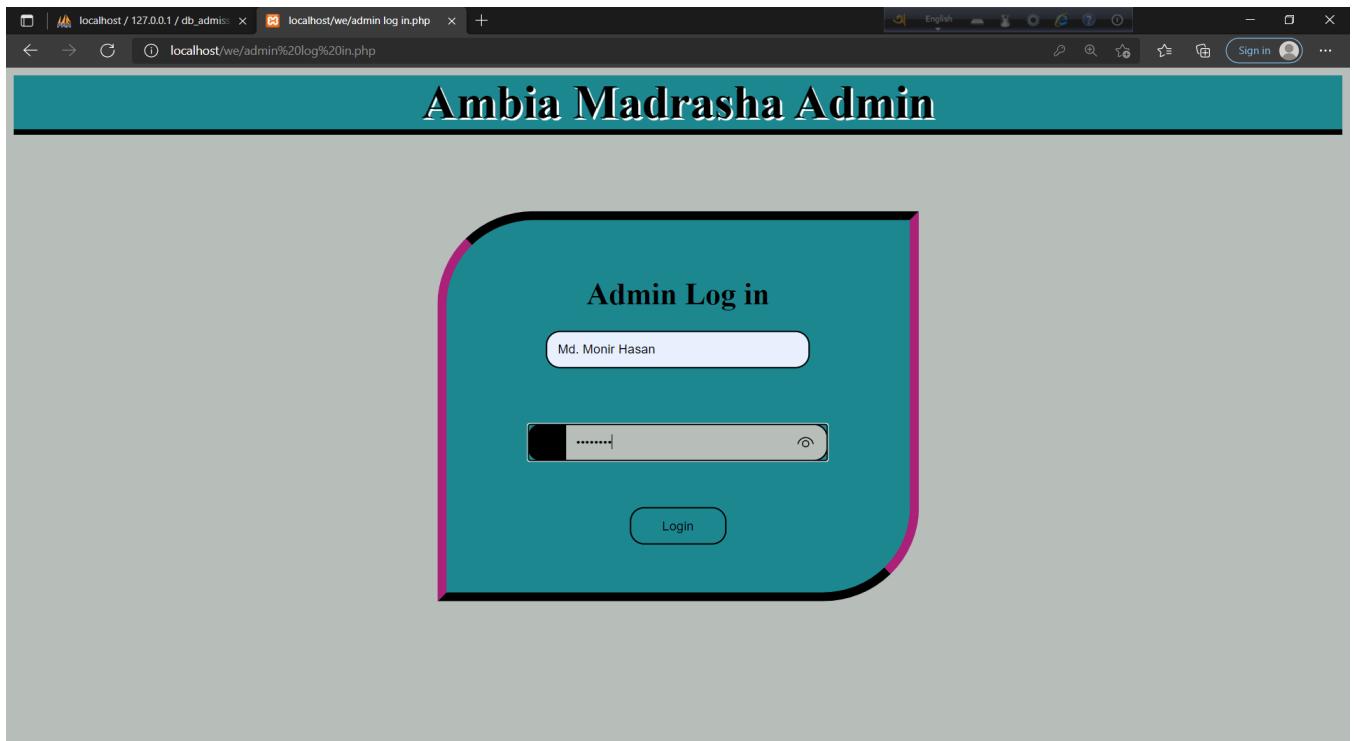
17 out of 30

Notices of closure of students of all departments of Ambia Madrasa, notices of various cultural events, pdf of class routines are given here. All students are requested to collect notices of their respective departments from here.

## Notice and news

The screenshot shows three separate PDF documents displayed as if they were tabs in a browser. Each document has a dark green header bar with white text. The first document is titled 'আবিষ্য মাজাসা দাখিল শাখার নোটিশ' (Notice of Closure of Students of Various Departments) dated 12/9/2021. The second document is titled 'আবিষ্য মাজাসা নোটিশ' (Notice) dated 22/9/2021. The third document is titled 'আবিষ্য মাজাসা ইবতেদিয়া শাখার নোটিশ' (Notice of Various Cultural Events) dated 10/8/2021. The footer of the website includes the school's logo, address (West Deovog Munsiganj, Dhaka), contact information (Email: info@ambia.edu.bd, Phone: 081-73920, Mobile: 01951894007), and a copyright notice (@Team Multiverse).

## Admin Panel View:



A screenshot of a web browser showing the 'Admin' dashboard. The header says 'Admin' and the main area says 'Welcome Md. Monir Hasan'. Below is a grid of eight light gray rounded squares with teal icons: user profile, plus sign, building, people, document, person with list, square, and fingerprint. At the bottom is a teal bar with the text 'Click here to Logout'.

The screenshot shows a web application interface titled "Admin [Teachers]". On the left, there is a form for adding a new teacher, featuring fields for "Full Name" (with a placeholder "John Doe"), "Position" (with a placeholder "Teacher"), and "Message" (with a placeholder "Hello"). Below these fields are two orange circular buttons with white icons: a pencil for "Edit" and a trash can for "Delete". A large red "Publish" button is at the bottom. To the right, there are two teacher profiles displayed in boxes. The first profile is for "Hafiz Delwar hossain" (Position: Teacher, Email: delwar123@gmail.com), and the second is for "Hafiz Kamal Hossain" (Position: Teacher, Email: kamalhossain@gmail.com). Each profile box has its own edit and delete buttons.

The screenshot shows a web application interface titled "Admin(Admission)". Below it, a section titled "Admission Students" is visible. A purple header bar contains the text "Students List". Below this, a table displays student information:

ID	Student Name	Gurdian Name	Contact	Email	Address	Class	Shift	Blood Group	Division	Action
76	Ahamed Jamil	Abdul Matin Bhuiyan	01951894008	ahmedjamil1127@gmail.com	kaliajury	9	1	b+	2	
79	jowel	abul jowel	01951894007	kalloou@gmail.com	kaliajuryD	9	1	b+	1	
80	ahamed jubayer bhuiyan	matin bhuiyan	01951894008	456kaloo@gmail.com	kaliajuryDW	2	2	b+	1	

localhost / 127.0.0.1 / ambia\_ma Student Management Admission English Close Sign in

## Admin(Admission)

### Admission Students

Edit the ID: 79, Name: jowel's information

Student Name	Class
jowel	9
Gurdian Name	Shift
abul jewel	Select
Contact	Blood Group
01951894007	b+
Email	Division
kal10ou@gmail.com	N/A

localhost / 127.0.0.1 / ambia\_ma admin info Admission English Close Sign in

## Admin(Fees Info)

### Fees Info

ID	Division	Fees	Delete	Update
1	Ibtedaie Branch( Class 1 to 5)	1000	<a href="#">Delete</a>	<a href="#">Update</a>
2	Dhakil Branch( Class 6 to 10)	2000	<a href="#">Delete</a>	<a href="#">Update</a>
3	Hafiz Branch	800	<a href="#">Delete</a>	<a href="#">Update</a>
4	Hostel fee	2000	<a href="#">Delete</a>	<a href="#">Update</a>



## Update fees

DIVISION:

Fees:

**Submit**

[« Previous](#)

**Admin [Committees]**

Full Name

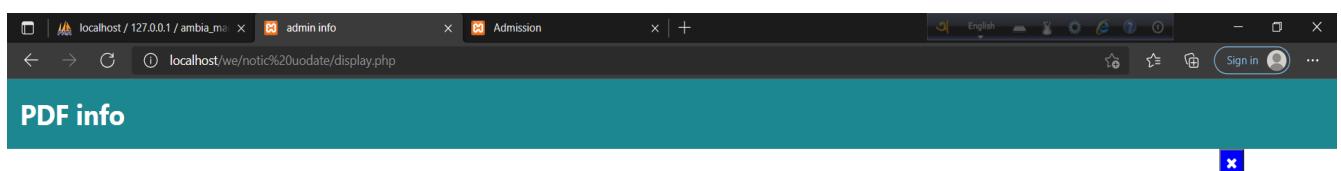
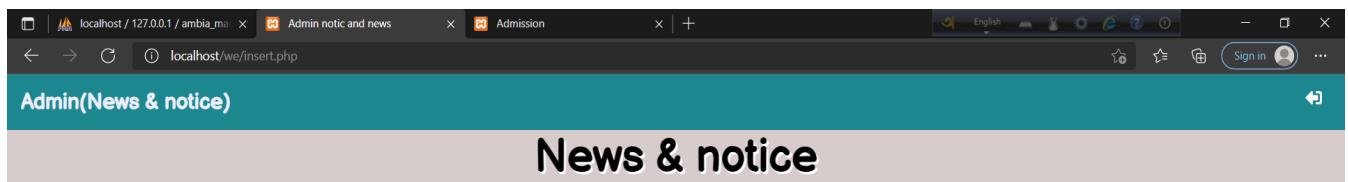
Position

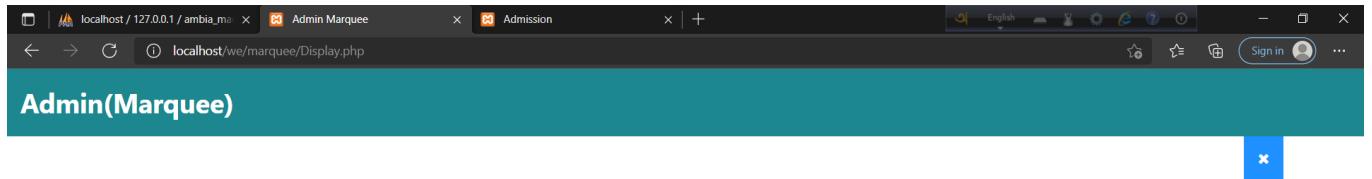
Message

**Publish**

**Hazi Ali Mahmud**  
finance committee  
ali127@gmail.com

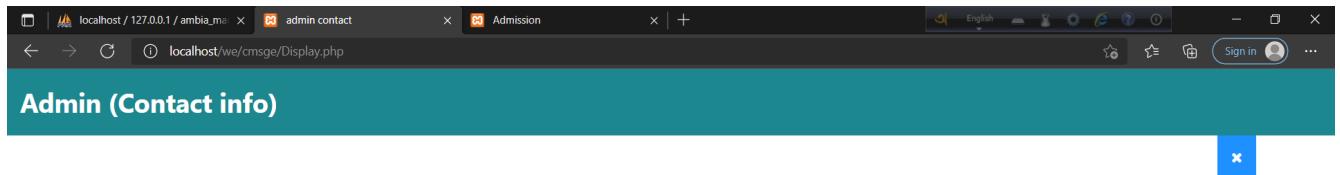
**Hafiz Md.Ali Morteja**  
Discipline Committee  
alimurtuza@gmail.com





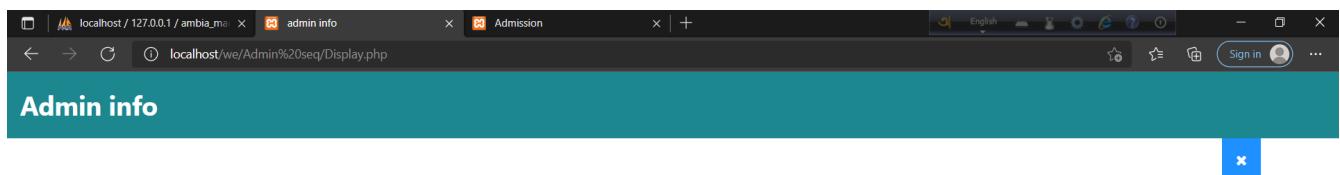
## Display Marquee Data

Id	Text	Update
1	Covid-19 মোকাবেলায় সবাই মাঝে পরিধান করুন :: No mask No service :: Admission going on 2021/22...	Update



## Contacts Info

Id	Email	Text	Delete
4	ahmedjamil127@gmail.com	In publishing and graphic design, Lorem ipsum is a placeholder text commonly used to demonstrate the visual form of a document or a typeface without relying on meaningful content. Lorem ipsum may be used as a placeholder before final copy is available.	<button>Delete</button>



## Admin Info

ID	Username	Password	Delete	Update
11	Md. Gulzar Hossain	@5676@	<button>Delete</button>	<button>Update</button>
13	Md. Monir Hasan	789	<button>Delete</button>	<button>Update</button>

Insert Admin



## Update Admin

Username:  
Md. Monir Hasan

Password:  
1000

**Submit**

[« Previous](#)



## Insert Admin

Username:  
admin

Password:  
1231

**Submit**

[« Previous](#)

## Database View:

The screenshot shows the PHPMyAdmin interface with the following details:

- Server:** 127.0.0.1 / localhost / ambia\_ma
- Database:** admin.info
- Structure View:** The main pane displays the structure of the 'ambia\_madrasa\_database'. It lists 8 tables: admin\_table, committe\_table, contactmsg, marquee, messages\_table, pdf\_file, student\_fee, and student.
- Table Data:** A detailed table provides information for each table:

Table	Action	Rows	Type	Collation	Size	Overhead
admin_table	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 K1B	-
committe_table	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 K1B	-
contactmsg	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 K1B	-
marquee	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	32.0 K1B	-
messages_table	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 K1B	-
pdf_file	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 K1B	-
student_fee	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 K1B	-
student	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	32.0 K1B	-
- Create Table:** A form allows creating a new table with a name of 'Name:' and 4 columns.

## **Chapter VI: Decision**

### **6.1 Comparison**

Existing system is a manual entry for the students. Here the information will be carried out in the hand written registers. The retrieval of the information is not as easy as the records are maintained in the hand written registers. All calculations to generate report are done manually so there is greater chance of errors. Students have to check every notice in the notice board. So, this system is more difficult for the user. To overcome this issue we built a website. Here students can easily get notification and they don't have to go to the teachers to collect information. By using a website, the madrasah management system will be more updated.

### **6.2 Proposed Solution & Contention**

The leading concern of the project is to reduce the manual work by using offline library management system software. It is effective and less time consuming. The admin can easily maintain the information of students and mass management.

### **6.3 Project Abstraction**

1. To overcome the drawback of the existing system.
2. Improved workflow management.
3. Reduce paper work
4. Decrease errors.
5. Comfort in use.
6. Feature handling solutions.
7. Time saving
8. The efficient report can be generated

## **Chapter VII: Discussion**

### **7.1 Interpretations**

This management system is all about digitalizing the Madrasah.

### **7.2 Implementation**

It is implemented.

### **7.3 Future Work**

- To Develop our proposed system.
- An Online Student portal.
- An Android app to make the system more mobile.

## **Chapter VIII: Conclusion**

### **8.1 Conclusions**

The website of Ambia Madrasah management system is for digitizing the working formula of that madrasah. It is taking care of all the requirements of the management committee. It can easily be used and maintained by one who is not professional. It is user friendly and we propose some new modules to maximize the productivity of that system. In the future if they can work with us then we provide that extra quality of that product.