

MARKAZUL AZHAR BANGLADESH

Complete Website + Madrasa ERP + LMS + Hifz + Accounts

Master Software Requirement Specification — Final Version

1. Project Overview

Project Name: Markazul Azhar Bangladesh

Arabic Name: مركز الأزهر بنجالديش

The system will be a complete digital platform consisting of:

- Institutional Website
- Multilingual CMS
- Madrasa Management ERP
- Student Management
- Teacher Management
- Guardian Portal
- Hifz Management
- Academic Management
- Attendance
- Routine
- Syllabus
- Examination
- Result Management
- Question Bank
- LMS
- Live Classes
- Admission
- Fees
- Small Accounts
- Donation Management
- Canteen
- Hostel
- Notice Board

- Gallery
- Blog / Dawah
- Communication
- Reports

The original specification establishes this as a multilingual institutional platform with public and authenticated areas.

2. Technology Architecture

Recommended Stack

Backend

PHP 8.3+
Custom MVC Architecture
PDO
REST API
JWT Authentication
Composer
Repository + Service Layer

Frontend

HTML5
CSS3
Bootstrap 5
JavaScript
AJAX
Chart.js
DataTables

Database

MySQL 8+
UTF8MB4
Foreign Keys
Indexes
Transactions

Integrations

Google Maps
YouTube
Facebook
WhatsApp
Zoom
Google Meet
bKash
Nagad
Rocket
Card Payment Gateway
Email
SMS

The source specification already defines multilingual API architecture, JWT-protected dashboards and public localized endpoints.

3. Multilingual Architecture

Three languages:

bn = Bengali
en = English
ar = Arabic

Direction

Bangla → LTR
English → LTR
Arabic → RTL

The document explicitly requires database-driven i18n and dynamic RTL/LTR switching.

URL

/bn/
/en/
/ar/

/bn/about
/en/about
/ar/about

Translation architecture

Content that requires translation should use:

main_table
main_table_translations

Example:

pages
page_translations

This follows the database pattern already defined in the source.

4. Public Website

Main Navigation

Home
About
Contact
Gallery
Teachers
Students
Board
Extra Curriculum
Classes
Syllabus
Subjects
Routine
Admission
Active Donors
Donate Now
Daily Activity

Canteen
Notice Board
Exam Portal
Question Bank
Blog / Dawah
Results

The source defines 22 public sections covering these areas.

5. Home Page

Header

- Logo
- Organization name
- Navigation
- Language selector
- Login
- Donate button
- Contact information

Hero

- Slider
- Institutional campaigns
- Admission
- Donation CTA

Institutional Statistics

Total Students
Total Teachers
Classes
Hifz Students
Hifz Graduates
Years of Service

Principal Message

- Photo
- Name
- Designation
- Message

Latest Notices

Academic Information

Hifz Program

Islamic Activities

Latest Gallery

YouTube Videos

Donation Section

The source specifically calls for hero banners, principal message, statistics, announcements, social feeds and donation CTA.

6. About Organization

Sections:

- Introduction
- History
- Vision
- Mission
- Objectives
- Educational Philosophy
- Curriculum

- Al-Azhar alignment
- Accreditation
- Campus
- Facilities
- Hostel
- Future Development

The source identifies history, vision, mission, curriculum alignment and accreditation as core content.

7. Contact

Address

Phone

Mobile

Email

Office Hours

Emergency Contact

Google Map

Contact Form

Social links:

Facebook

YouTube

WhatsApp

Telegram

Contact inquiries will be stored in the system.

8. Gallery & Media

Albums

- Campus
- Events

- Students
- Teachers
- Awards
- Hifz
- Qira'at
- Competitions
- Programs

Media

- Images
- Videos
- YouTube lectures
- Qira'at videos

The source includes `media_galleries` and `media_items`.

9. Teacher Management

Teacher profile:

Photo
Name
Designation
Qualification
Subject
Joining Date
Experience
Biography
Status

Teacher directory is publicly available, while detailed management is inside the Teacher Panel.

10. Student Management

Student master profile:

Student ID
Admission No
Name
Photo
Date of Birth
Gender
Address
Guardian
Class
Roll
Admission Date
Previous Institution
Blood Group
Emergency Contact
Status

Public side should expose only approved achievement/statistical information.

The source includes student achievements, demographics, Hifz honors and roll of honor.

11. Guardian Management

Guardian profile:

Guardian ID
Name
Phone
Email
Address
Occupation
Emergency Contact
Relationship

A guardian can have multiple children.

Guardian
├── Student 01
├── Student 02
└── Student 03

12. Board & Management

Profiles:

- Founder
- Chairman
- Governing Body
- Executive Committee
- Advisors
- Principal
- Other Leadership

The source specifically requires governing body, executive committee, advisors and founder profiles.

13. Academic Management

Academic Levels

Ibtidaiyya
Mutawassitah
Sanawiyyah
Dawra-e-Hadith
Hifzul Quran

These levels are specified in the source.

Class

Class
Code
Academic Year
Description
Status

Subject

Subject
Code
Class
Description
Status

Examples include Nahw, Sarf, Fiqh, Tafsir, Hadith, English, Math and Science.

14. Syllabus

Academic Year
Class
Subject
Title
Description
PDF
Status

Users can view/download syllabus PDFs.

The source specifically requires year-wise downloadable syllabus and curriculum files.

15. Routine Management

Class Routine

Class
Day
Period
Start Time
End Time
Subject
Teacher
Room

Exam Routine

Exam
Class
Subject
Date
Start Time
End Time
Room

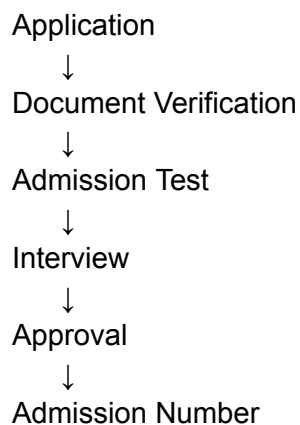
Both should support web view and PDF download.

16. Admission Management

Public

- Admission notice
- Eligibility
- Requirements
- Available classes
- Fees
- Deadline
- Online application

Application workflow



↓
Student Account
↓
ID Card

The original specification requires a multi-step online application system.

17. Hifz Management

This is a specialized module.

Daily Hifz Entry

Student
Date
Sabak
Sabak Para
Manzil
Teacher
Remarks

Meaning

Sabak → New lesson

Sabak Para → Recent revision

Manzil → Older/long revision

The source specifically requires tracking all three.

Reports

- Daily progress
 - Weekly progress
 - Monthly progress
 - Para completion
 - Student comparison
 - Teacher report
 - Guardian report
-

18. Attendance Management

Student Attendance

Date
Class
Student
Present
Absent
Late
Leave
Remarks

Teacher Attendance

Date
Teacher
Status
Check-in
Check-out
Remarks

Reports

- Daily
 - Monthly
 - Student
 - Class
 - Teacher
 - Guardian
-

19. LMS

Live Classes

Public:

- Lectures

- Tafsir
- Webinars

Student:

- Upcoming classes
- Join class
- Materials
- Recordings

Teacher:

- Create class
- Schedule
- Zoom/Meet
- Upload notes
- Attendance

The source explicitly specifies public live classes and private student/teacher live-class functionality.

20. Question Bank

Categories

Class
Subject
Chapter
Question Type
Difficulty
Language

Types

MCQ
Written
Oral
Shafahi
Hifz

Difficulty

Easy
Medium
Hard

The source defines these classifications.

Paper Generator

Select Class

↓

Select Subject

↓

Select Chapter

↓

Select Question Type

↓

Select Difficulty

↓

Number of Questions

↓

Generate Paper

↓

PDF

21. Examination Management

Exam Setup

Academic Year

Exam

Term

Start Date

End Date

Status

Exam Schedule

Exam

Class

Subject
Date
Total Marks
Pass Marks

Seat Allocation

Exam
Room
Student
Seat Number

Mark Entry

Student
Subject
Written Marks
Oral Marks
Total
Absent
Remarks

The original workflow is:

Term → Timetable → Seat Allocation → Question Paper → Mark Entry → Grade → Result.

22. Result Management

Qawmi Grade

80–100 = Mumtaz
70–79 = Jayyid Jiddan
60–69 = Jayyid
33–59 = Maqbool
0–32 = Rasib

Result

- Subject marks
- Total marks
- Percentage
- Grade
- Pass/fail
- Position
- Attendance
- Remarks

Documents

- Report Card
 - Kashf al-Darajat
 - Tabulation Sheet
 - PDF
-

23. Public Result Verification

Roll Number
Registration Number
Academic Year
Exam

Result output:

Student Name
Class
Roll
Registration
Subjects
Marks
Grade
Total
Result

This matches the public verification requirement in the source.

24. Student Portal

Student dashboard:

- Dashboard
- My Profile
- My Class
- Routine
- Attendance
- Hifz Progress
- Syllabus
- Question Bank
- Practice Test
- Live Classes
- Exam Routine
- Results
- Notices
- Downloads

The source specifies academic dashboard, learning hub, live classes, practice quizzes, syllabi, past papers and performance reports.

25. Guardian Portal

- Dashboard
- My Children
- Attendance
- Hifz Progress
- Results
- Routine
- Fees
- Payments
- Receipts
- Notices
- Messages
- Support

The source requires real-time child monitoring, online payments and communication with teachers/office.

26. Teacher Portal

Dashboard
My Classes
Students
Attendance
Hifz Tracker
Live Classes
Study Materials
Question Bank
Examinations
Mark Entry
Reports
Messages

Teacher functionality is defined in the source around Hifz, attendance, grading and LMS management.

27. Office Portal

Dashboard

Admissions
Students
ID Cards

Fees
Donations

Accounts
|— Cash
|— Bank
|— Income
|— Expense

- Transfer
- Vouchers
- Receipts
- Reports

Canteen
Hostel
Notices
Reports

The source already assigns admissions, financial ledger, donations, expenses, canteen inventory and hostel operations to the Office Panel.

28. Small Accounts Management

Objective

A simple operational accounting system for everyday Madrasa financial transactions.

It should **not** attempt to replace a full professional accounting package.

28.1 Account Types

Cash
Bank
bKash
Nagad
Rocket

28.2 Income

Categories:

Student Fee
Admission Fee

Hostel Fee
Canteen
Donation
Zakat
Sadaqah
Lillah
General
Other

Fields:

Date
Receipt No
Category
Amount
Account
Payment Method
Received From
Reference
Description
Attachment
Created By

29. Expense Management

Categories:

Food
Canteen
Hostel
Electricity
Gas
Water
Internet
Teacher Salary
Staff Salary
Transport
Stationery
Maintenance
Medical

Education Materials
Program/Event
Office
Other

Fields:

Date
Voucher No
Category
Amount
Account
Payment Method
Paid To
Description
Attachment
Prepared By
Approved By

30. Account Transfer

Example:

Cash → Bank
Bank → bKash
bKash → Cash

Every transfer creates:

Transfer Out
Transfer In

so account balances remain accurate.

31. Cash Book

Opening Balance
+ Income
- Expense
+ Transfer In
- Transfer Out
= Closing Balance

This should be available by:

- Day
 - Month
 - Account
 - Custom date range
-

32. Financial Reports

Daily

Opening
Income
Expense
Closing

Monthly

Total Income
Total Expense
Net Balance

Category

Income by Category
Expense by Category

Account

Cash Statement
Bank Statement
bKash Statement

Nagad Statement
Rocket Statement

Export

- PDF
 - Excel/CSV
 - Print
-

33. Receipt & Voucher

Money Receipt

Markazul Azhar Bangladesh

Money Receipt

Receipt No

Date

Received From

Category

Amount

Payment Method

Description

Received By

Authorized By

Expense Voucher

Markazul Azhar Bangladesh

Payment Voucher

Voucher No

Date

Paid To

Category

Amount

Payment Method

Purpose

Prepared By

Approved By

34. Donation Management

Fund types:

Zakat
Sadaqah
Lillah
General

Payment methods:

bKash
Nagad
Rocket
Card

The original specification explicitly includes these donation types and payment integrations.

Donation workflow

Donation Form

↓

Fund Selection

↓

Payment

↓

Gateway Verification

↓

Donation Record

↓

Receipt

↓

Donor History

35. Donor Portal

Dashboard
Donation History
Receipts
Sponsored Students
Sponsored Projects
Impact Reports

The source requires donation history, PDF receipts and impact reporting.

36. Canteen Management

Public

Weekly Menu
Breakfast
Lunch
Dinner
Dining Rules
Hygiene
Nutrition

Internal

Food Items
Suppliers
Purchase
Stock
Consumption
Menu
Daily Meal Count
Expenses

The public requirements include weekly meal menus, dining rules, hygiene standards and nutrition policies.

37. Hostel Management

Recommended internal module:

Hostel
Buildings
Floors
Rooms
Beds
Student Allocation
Room Transfer
Check-in
Check-out
Hostel Fees
Maintenance

This aligns with the existing requirement for hostel room allocation and hostel-related operations in the Office Panel.

38. Notice Board

Categories:

General
Academic
Admission
Exam
Holiday
Emergency

Fields:

Title
Content
Language
Publish Date
Expiry Date
Attachment
Status

The source requires live notices with date-based archiving.

39. Blog / Dawah

Articles
Categories
Authors
Tags
Featured Image
Content
SEO
Publish Date
Language
Status

Categories can include:

- Quran
- Hadith
- Fiqh
- Islamic Studies
- Dawah
- Madrasa News
- Student Achievement

The source specifically includes Islamic studies, student achievements, institutional news and Dawah materials.

40. Communication

Contact Inbox

Name
Phone
Email

Subject
Message
Status
Assigned To

Internal Messages

Teacher ↔ Student
Teacher ↔ Guardian
Guardian ↔ Office
Office ↔ Student

Live Chat

Visitor
↓
Chat
↓
Office Desk

The source specifies floating chat, WhatsApp/Messenger routing and optional WebSocket chat.

41. Social Media

Admin-controlled links:

Facebook
YouTube
WhatsApp
Telegram

Optional automatic feeds:

Facebook Posts
YouTube Videos
Qira'at Videos

42. Six Main Dashboards

Final dashboard structure:

1. Admin
2. Teacher
3. Student
4. Guardian
5. Office
6. Donor

This is the six-panel architecture defined by the source.

43. Admin Dashboard

Dashboard

- Website
- CMS
- Languages
- Menus
- Users
- Roles
- Permissions
- Academic
- Students
- Teachers
- Guardians
- Classes
- Subjects
- Hifz
- Attendance
- Syllabus
- Routine
- Exams
- Results
- Question Bank
- LMS

- Admission
- Fees
- Accounts
- Donations
- Canteen
- Hostel
- Notices
- Gallery
- Blog
- Communication
- Reports
- Audit Logs
- Settings

The source assigns the Admin full system control, RBAC, CMS and auditing.

44. Role-Based Access Control

Roles:

- Admin
- Teacher
- Student
- Guardian
- Office
- Donor

Each role receives granular permissions:

- view
- create
- edit
- delete
- approve
- publish
- export
- print

Financial operations should have additional approval controls.

45. Core Database Architecture

System

languages
roles
users

The source defines these core tables.

CMS

navigation_menus
navigation_menu_translations
pages
page_translations

Academic

academic_classes
academic_class_translations
subjects
subject_translations

People

teachers
guardians
students
hifz_progress

LMS

live_classes
question_bank
question_translations

Examination

exams
exam_schedules
exam_results

Donation

donors
donations

Communication

chat_threads
chat_messages

46. New Accounts Tables

Add:

account_categories
accounts
account_transactions
account_transfers
income_receipts
expense_vouchers
account_attachments

accounts

id
account_name
account_type

account_number
opening_balance
current_balance
is_active
created_at
updated_at

account_categories

id
type
name
description
is_active
created_at

account_transactions

id
transaction_no
transaction_date
account_id
category_id
transaction_type
amount
payment_method
reference_no
description
created_by
approved_by
status
created_at
updated_at

account_transfers

id
transfer_no
transfer_date
from_account_id
to_account_id
amount
reference_no

description
created_by
approved_by
status
created_at

47. Financial Audit

Every financial action should be logged:

User
Action
Module
Record ID
Old Value
New Value
IP
Timestamp

Examples:

Expense Created
Expense Edited
Expense Cancelled
Income Created
Transfer Created
Donation Updated
Payment Approved

This is consistent with the source requirement for financial/system auditing.

48. API Structure

Public:

/api/v1/{lang}/...

Authentication:

/api/v1/auth/login

Dashboard:

/api/v1/dashboard/...

The original document already establishes this API pattern and JWT protection.

Important APIs

GET /api/v1/{lang}/menus

GET /api/v1/{lang}/pages/{slug}

POST /api/v1/{lang}/admissions/apply

POST /api/v1/{lang}/donations/checkout

GET /api/v1/{lang}/results/search

POST /api/v1/auth/login

POST /api/v1/dashboard/teacher/hifz/log

GET /api/v1/dashboard/student/live-classes

GET /api/v1/dashboard/guardian/child-report

POST /api/v1/dashboard/teacher/marks/entry

POST /api/v1/dashboard/teacher/questions/generate

GET /api/v1/dashboard/office/donations/report

These endpoints are directly represented in the source.

49. New Accounts APIs

Add:

GET /api/v1/dashboard/accounts/accounts

POST /api/v1/dashboard/accounts/accounts

GET /api/v1/dashboard/accounts/categories

POST /api/v1/dashboard/accounts/categories

GET /api/v1/dashboard/accounts/income

POST /api/v1/dashboard/accounts/income

GET /api/v1/dashboard/accounts/expenses

POST /api/v1/dashboard/accounts/expenses

POST /api/v1/dashboard/accounts/transfer

GET /api/v1/dashboard/accounts/transactions

GET /api/v1/dashboard/accounts/cash-book

GET /api/v1/dashboard/accounts/reports/daily

GET /api/v1/dashboard/accounts/reports/monthly

GET /api/v1/dashboard/accounts/reports/category

GET /api/v1/dashboard/accounts/receipts/{id}

GET /api/v1/dashboard/accounts/vouchers/{id}

50. Security

Required:

- Password hashing
- JWT
- CSRF protection where applicable
- SQL injection protection
- XSS protection
- Input validation
- File upload validation

- Role-based authorization
- Login throttling
- Session/device management
- Audit logging
- Secure payment verification
- Database backups

Financial and student information should receive additional access restrictions.

51. Reporting System

A centralized Reports section:

Academic Reports
Student Reports
Teacher Reports
Attendance Reports
Hifz Reports
Exam Reports
Result Reports
Admission Reports
Fee Reports
Donation Reports
Accounts Reports
Canteen Reports
Hostel Reports
Activity Reports

Formats:

Screen
Print
PDF
Excel/CSV

52. Final Module List

The complete system now contains:

Public Website

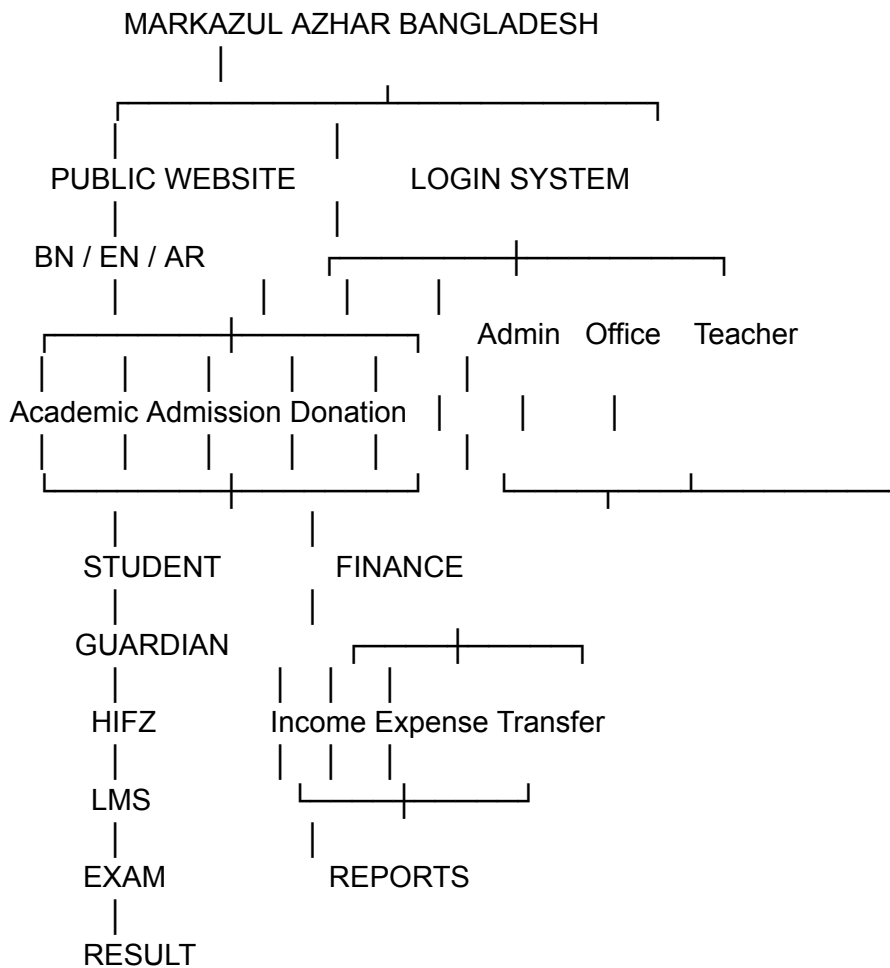
1. Home
2. About
3. Contact
4. Gallery
5. Teachers
6. Students
7. Board
8. Extra Curriculum
9. Classes
10. Syllabus
11. Subjects
12. Routine
13. Admission
14. Active Donors
15. Donate Now
16. Daily Activity
17. Canteen
18. Notice Board
19. Exam Portal
20. Results
21. Question Bank
22. Blog / Dawah

ERP / LMS

23. User Management
24. Role & Permission
25. Student Management
26. Guardian Management
27. Teacher Management
28. Academic Management
29. Hifz Management
30. Attendance
31. Syllabus
32. Routine
33. Question Bank
34. Examination
35. Result
36. Live Class / LMS
37. Admission

- 38. Fee Management
 - 39. Hostel
 - 40. Canteen
 - 41. Donation
 - 42. Small Accounts
 - 43. Communication
 - 44. Gallery / Media
 - 45. Blog / Dawah
 - 46. Reports
 - 47. Audit Logs
 - 48. System Settings
-

53. Final System Flow

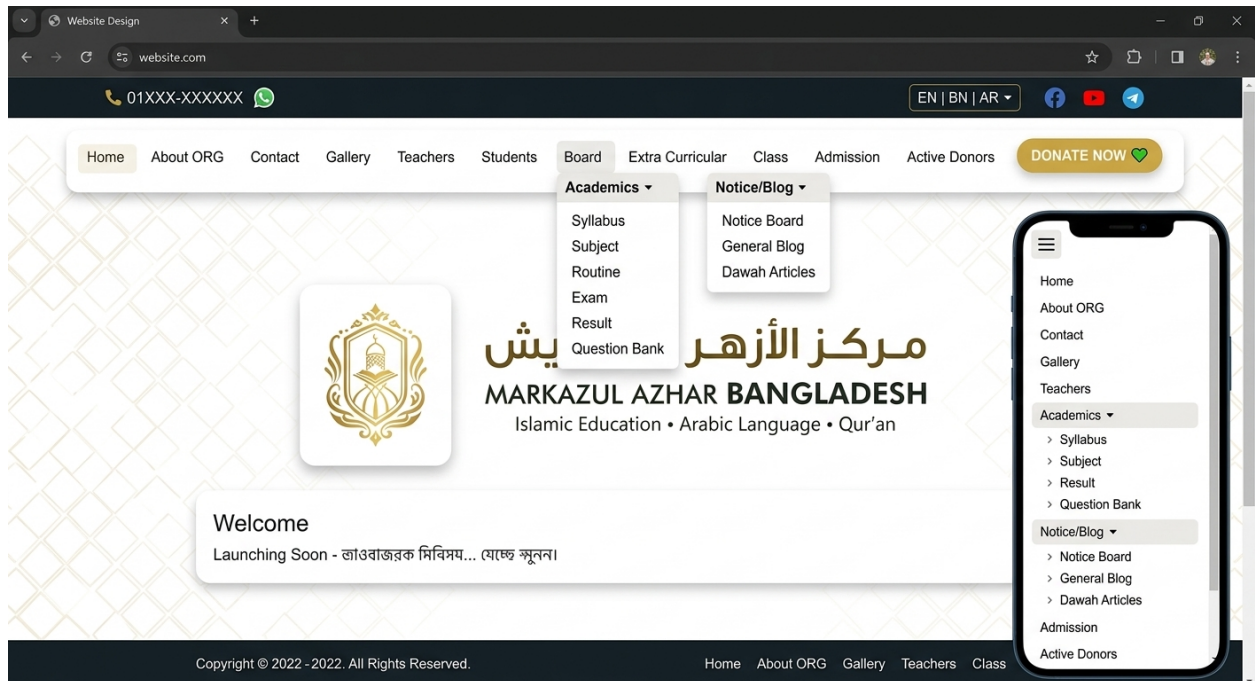


This can now be treated as the master SRS baseline for development.

Public Menu Demo :



Or



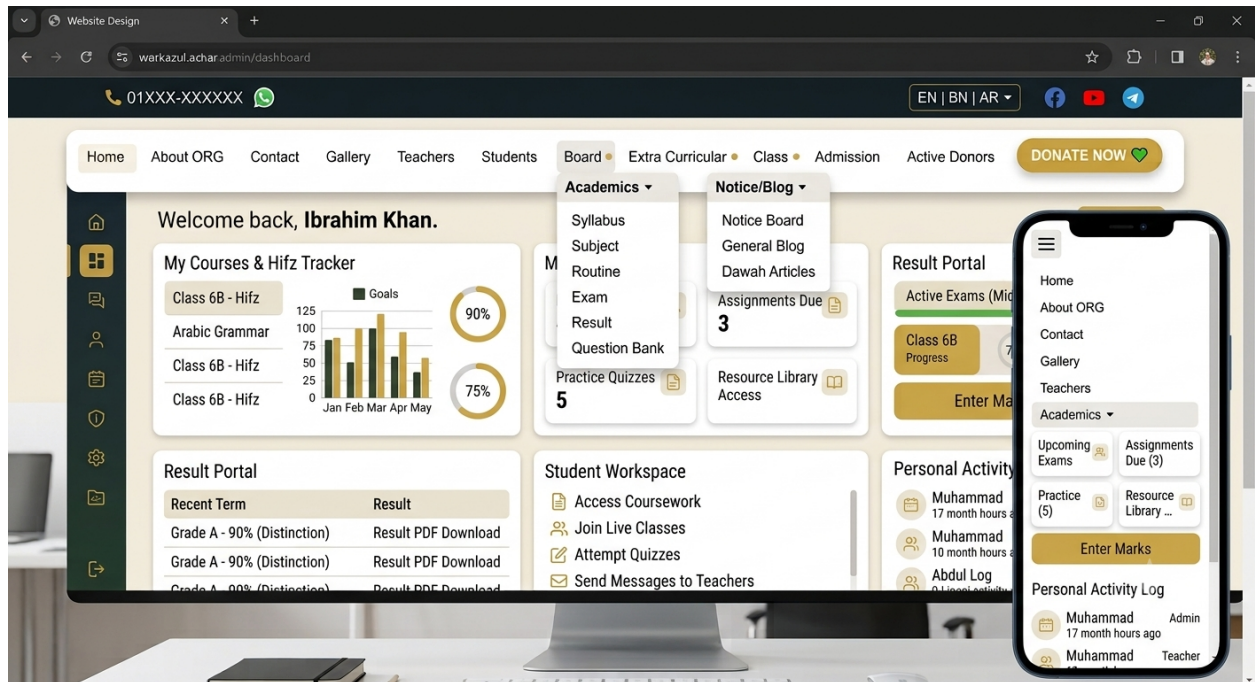
Demo Admin Dashboard:



Teacher Dashboard Panel:



Student Dashboard:



Home Page Demo:

