



A college under Mapúa Malayan Colleges Laguna

Database Plan Worksheet

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<Instructions: Complete the sections below to define your database plan. This worksheet will guide your group in mapping out the collections, documents, CRUD operations, and UI interactions for your web project.>

1. Collections and Documents

<List all collections and define the structure of their documents. Ensure each collection is specific to a feature or dataset in your project.>

Collection Name	Document Structure
Example: Users	{ "user_id": "101", "name": "Alice", "email": "alice@example.com", "role": "Admin", "date_joined": "2024-12-15" }

Additional Details (Optional):

- Which fields are required for each document?
- Any expected data types for the fields (e.g., string, number, date)?

2. CRUD Operations

<For each feature of your web project, specify the required CRUD operations and their purpose.>

Feature Name	Operation	Description
Example: Contact Form	Create	Save new messages submitted by users.
	Read	Display submitted messages in the admin panel.
	Update	Allow admins to mark messages as resolved.
	Delete	Allow users to delete their own messages.

3. UI and Data Flow

<Describe how the user interface will interact with the database. Include key UI elements (e.g., forms, tables, buttons) and their role in CRUD operations.>

UI Elements and Their Functions:

UI Element	Functionality
Example: Users	Allows users to input and submit their messages.
Example: Admin Panel	Displays submitted messages retrieved from the database.

Data Flow Description:

<Outline how data flows between the user interface and MongoDB Atlas for a typical CRUD operation.>

Example:

1. Create: A user submits a contact form → The data is sent to the server → The server inserts the data into the Messages collection in MongoDB Atlas.
2. Read: The admin panel sends a request to the server → The server retrieves messages from the Messages collection → The messages are displayed in the panel.

Optional Sketch or Diagram:

<Sketch or diagram the data flow, illustrating how data moves from the UI to the database and back. Tools like Lucidchart, draw.io, or pen-and-paper scans are acceptable.>

4. Additional Notes

<Use this section for any other details your group feels are relevant to the database plan.>