## **Data Base Schema Designs.**

Database in MongoDB and deployment in python

*Users-*

"\_id": ObjectId,

"name": "Irene Gomes",

"email": "irenegomes@gmail.com",

"password": "gomes\_password",

"role": "admin” |”user” |” guest” |

"createdAt": ISO DATE

"updatedAt": ISODATE

Explanation: here, Mongoclient connects to the MongoDB server. ObjectId used to reference MongoDB document IDs. Datetime is used to create timestamps.

|  |  |  |
| --- | --- | --- |
| Field | Python type | Mongo type |
| \_id | ObjectId | ObjectId |
| Name | Str | String |
| Email | Str | String |
| Password | str | String |
| Role | Str | String |
| Created\_at | datetime | ISODate |
| Updated\_at | datetime | ISODate |

*Chats-*

"\_id": ObjectId,

"userId": ObjectId, // Reference to Users collection

"messages": [

{

"sender": "user",

"message": "Hello, how can I help you?",

"timestamp": ISO DATE

}

],

"createdAt": ISO DATE

"updatedAt": ISO DATE

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| \_id | ObjectId | Auto generated unique id by mongodb for this chat document |
| userID | ObjectId | References the \_id from users collection |
| Messages | Array of Docs | Stores all messages in the chatbox |
| Sender | String | Identifies who sent the message |
| Message | String | The actual text sent |
| Timestamp | ISODate | When the mgs was sent |
| Created\_at | ISODate | Timestamp of when the chat doc was created |
| Updated\_at | ISODate | Updated every time a new msg is added. |

*BotConfigs-*

{

"\_id": ObjectId,

"clientId": String,

"rules": {

"language": String,

"tone": String,

"responseTime": Number

},

"settings": {

"theme": String,

"notifications": Boolean

},

"createdAt": ISODate,

"updatedAt": ISODate

}

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| \_id | Object Id | Unique config ID |
| Name | String | Config name or client reference |
| Rules | Array | Custom rules or conditions |
| Settings | Object | Model Settings |
| created\_by | Object Id | Reference to Admin |
| updated\_at | Date | Last update timestamp |