

Assignment on CRUD Endpoints

Your Turn!

- **Choose a resource** (e.g., `User` , `Book` , `Order`).
- **Implement all CRUD endpoints** for your resource.
- **Test each endpoint** using an API client.
- **Add request validation** and error handling.
- **Document your endpoints** for future reference.

Assignment on Pagination

Your Turn!

- **Implement pagination for hotel bookings:** Write a MongoDB query to retrieve the 4th page of bookings (page size: 15).
- **Add filtering:** Retrieve only bookings with a specific status (e.g., "booked") for the 2nd page (page size: 10).
- **Optimize:** Use an index on the `status` field and explain how it improves performance.
- **Bonus:** Implement cursor-based pagination using the `_id` field for even better performance with large datasets.

Error Handling

Your Turn!

- **Implement error handling** for a request to list clusters in MongoDB Atlas.
- **Check for a specific error code** (e.g., `CLUSTERS_UNREACHABLE`) and return a custom error message to the client.
- **Mock an error** for a 404 response and test your error handling logic.
- **Extend your error handler** to support additional HTTP status codes (e.g., 403 Forbidden, 429 Too Many Requests).