**ADVANCED WEB APPLICATION DEVELOPMENT**

**ASSIGNMENT WEEK 10**

**1.Explain the REST API- POST,PUT ,Updating and Deleting methods to subdocument  of  MongoDB.**

Answer1: In MongoDB, subdocuments are documents that are nested within other documents. You can use the same CRUD operations (Create, Read, Update, and Delete) to work with subdocuments as you would with any other document.

Here’s how you might use RESTful APIs to implement these operations:

* To create a new subdocument, you would send a POST request to the server with the data for the new subdocument in the request body. You would also need to specify the ID of the parent document in the URL.
* To read an existing subdocument, you would send a GET request to the server with the ID of the parent document and the ID of the subdocument in the URL.
* To update an existing subdocument, you would send a PUT or PATCH request to the server with the ID of the parent document and the ID of the subdocument in the URL and the updated data in the request body.
* To delete an existing subdocument, you would send a DELETE request to the server with the ID of the parent document and the ID of the subdocument in the URL.

Here’s an example of how you might use these methods:

Suppose you have a database of blog posts. Each blog post has comments that are stored as subdocuments. Here’s how you might use RESTful APIs to work with these comments:

* To create a new comment for a blog post with ID 1234, you would send a POST request to /posts/1234/comments with the data for the new comment in the request body.
* To read an existing comment with ID 5678 for a blog post with ID 1234, you would send a GET request to /posts/1234/comments/5678.
* To update an existing comment with ID 5678 for a blog post with ID 1234, you would send a PUT or PATCH request to /posts/1234/comments/5678 with the updated data in the request body.
* To delete an existing comment with ID 5678 for a blog post with ID 1234, you would send a DELETE request to /posts/1234/comments/5678.

**2.Discuss Rest API methods for update and Delete sub documents from database with real time example.**

Answer 2: To update or delete a subdocument in MongoDB using RESTful APIs, you would use the same methods as you would for any other document. Here’s an example:

Suppose you have a database of blog posts. Each blog post has comments that are stored as subdocuments. Here’s how you might use RESTful APIs to update or delete these comments:

* To update an existing comment with ID 5678 for a blog post with ID 1234, you would send a PUT or PATCH request to /posts/1234/comments/5678 with the updated data in the request body.
* To delete an existing comment with ID 5678 for a blog post with ID 1234, you would send a DELETE request to /posts/1234/comments/5678.

Here’s another example:

Suppose you have a database of users. Each user has a list of addresses that are stored as subdocuments. Here’s how you might use RESTful APIs to update or delete these addresses:

* To update an existing address with ID 5678 for a user with ID 1234, you would send a PUT or PATCH request to /users/1234/addresses/5678 with the updated data in the request body.
* To delete an existing address with ID 5678 for a user with ID 1234, you would send a DELETE request to /users/1234/addresses/5678.