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Assignment: 3B

Problem Statement: Create four API using Node.JS, ExpressJS and MongoDB for CURD Operations on assignment 2.C

Code:

```
const express = require("express");
const bodyParser = require("body-parser");
const ejs = require("ejs");
const mongoose = require("mongoose");

const app = express(); //Creating new app instance

app.set('view engine', 'ejs');

app.use(bodyParser.urlencoded({extended: true}));
app.use(express.static("public"));

mongoose.set('strictQuery', false);
mongoose.connect("mongodb://127.0.0.1:27017/wikiDB");

const articleSchema = {
  title:String,
  content:String
}

const Article = mongoose.model("Article",articleSchema);

////////// REQUESTS TARGETTING ALL ARTICLES
//////////

app.route("/articles")
```

```
.get(function(req,res){
  Article.find(function(err,foundArticles){
    if(!err){
      res.send(foundArticles);
    }else{
      res.send(err);
    }
  });
})

.post(function(req,res){

  const newArticle = new Article({
    title:req.body.title,
    content:req.body.content
  });
  newArticle.save(function(err){
    if(!err){
      res.send("Successfully added a new Article");
    }else{
      res.send(err);
    }
  });
})
```

```

    if(!err){
        res.send("Successfully added a new Article");
    }else{
        res.send(err);
    }
});
})

.delete(function(req,res){
    Article.deleteMany(function(err){
        if(!err){
            res.send("Successfully deleted all Articles");
        }else{
            res.send(err);
        }
    });
});

////////// REQUESTS TARGETTING A SPECIFIC ARTICLE
//////////

app.route("/articles/:articleTitle")

```

```

.get(function(req,res){
  Article.findOne({title:req.params.articleTitle},
function(err,foundArticle){
  if(foundArticle){
    res.send(foundArticle)
  }else{
    res.send("No Articles matching that title found");
  }
});
})

.put(function(req,res){
  Article.findOneAndUpdate(
    {title: req.params.articleTitle},
    {title: req.body.title, content: req.body.content},
    {overwrite:true},
    function(err){
      if(!err){
        res.send("Successfully updated article")
      }else{
        res.send(err)
      }
    }
  );
})

```

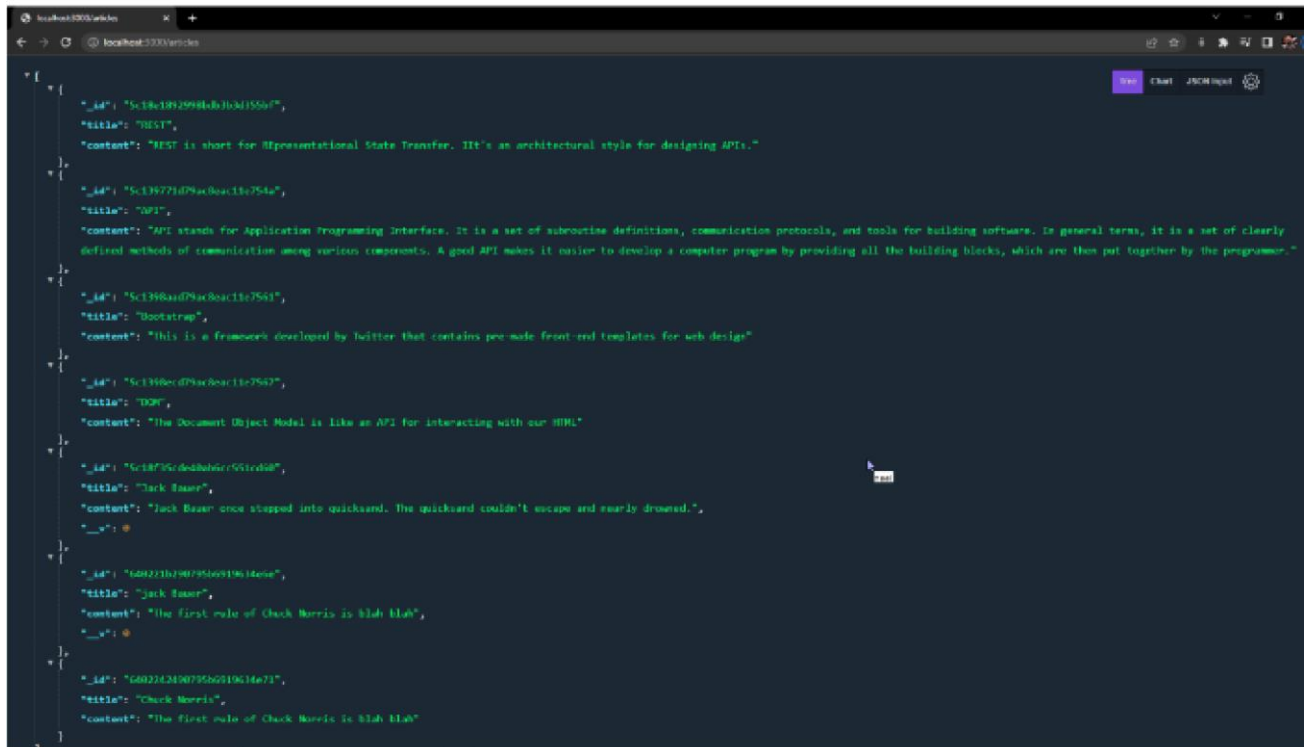
```

.patch(function(req,res){
  Article.findOneAndUpdate(
    {title: req.params.articleTitle},
    {$set:req.body},
    function(err){
      if(!err){
        res.send("Successfully updated")
      }else{
        res.send(err)
      }
    }
  );
});

```

```
app.listen(3000,function(req,res){  
  console.log("Server started at port 3000");  
});
```

Output:



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/articles'. The page content is a JSON array of five article objects. Each object has an '_id', a 'title', and a 'content' field. The articles are about REST, API, Bootstrap, DOM, and Jack Bauer. The browser interface includes a back button, a search bar, and a 'Chat' button in the top right corner.

```
{  
  "_id": "5c18e18929984b3b3d155b7",  
  "title": "REST",  
  "content": "REST is short for Representational State Transfer. It's an architectural style for designing APIs."  
},  
  "_id": "5c136771d79ac8ac11e756e",  
  "title": "API",  
  "content": "API stands for Application Programming Interface. It is a set of subroutine definitions, communication protocols, and tools for building software. In general terms, it is a set of clearly defined methods of communication among various components. A good API makes it easier to develop a computer program by providing all the building blocks, which are then put together by the programmer."  
},  
  "_id": "5c1398a8d79ac8ac11e756f",  
  "title": "Bootstrap",  
  "content": "This is a framework developed by Twitter that contains pre-made front end templates for web design"  
},  
  "_id": "5c1398ecd79ac8ac11e756d",  
  "title": "DOM",  
  "content": "The Document Object Model is like an API for interacting with our HTML"  
},  
  "_id": "5c18736cdebb4b3b3d155b8",  
  "title": "Jack Bauer",  
  "content": "Jack Bauer once stepped into quicksand. The quicksand couldn't escape and nearly drowned.",  
  "_v": 0  
},  
  "_id": "5d8021b2987956e919614ee",  
  "title": "Jack Bauer",  
  "content": "The first rule of Chuck Norris is blah blah",  
  "_v": 0  
},  
  "_id": "5d8021a34007956e919614e71",  
  "title": "Chuck Norris",  
  "content": "The first rule of Chuck Norris is blah blah"
```