Note: Constitution of the state of
Note: when including CSS or IS files in 'EIS' file, always use 'I before the name of file (eg: Istyle:css), otherwise it will
before the name of tile (g. /stylicess), oxnown, with different.
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RESTful APIS
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What is REST?
REST or Representational State Transfer is an anchitectural
style that defines a set of constrainsts to be used
for creating web requires.
REST uses less bandwidth, simple and flexible making it
more suitable for internet usage. It's used to fetch or
give some information from a web services. All communication
done via REST API uses only HTTP request.
Two main rules to follow while creating RESTful API
a must
ext. Use HTTP request Verbs for CRUD objections i.e.
(H+++ verbs) verbs for CRUD operations i-e, (operations)
GIET to get date.
POST to post data
id Chairma Decimental Production
PUT to update existing data
PATCH to update existing data partially
2 SA - 2 T A VI - 1 NOOG - 1 A C - 1 A
DELETE removes data
Zana da
*2. for routing of RESTful APIs, use specific nouns, not voibs.
●第 22 - 、 前手で「母弟 xux d」、「Liuwin」、 Susan territoria publika a publika a publika di ku
E.g.: If there is any website that shows posts uploaded their
then URL 63:-
5 http://localhost:8080/showingposts X
is haldpillocalhost: 8080/bosts

How to make 'PUT' Or 'PATCH' or DELETE' reg Http. As we know, there are only two methods available for submitting a form in HTML i.e ChET or POST, but we are supposed to use other HTTP verbs as well as. To do so, we need a middleware, method-override Steps to add 'method-override' middleware step-1: install this middleware npm install method-overscide step-2: include in your index. is const method Overouide = require ('method-overouide'); add middleware,
appruse (method Oversuide ('-method')); s Jep-8: You can use 'PUT', PATCH' or DELETE! in your ainderis, (appoput, appopulch or appodelete) step-4: Changes you a have to make in your HTML form step-5:

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Getting all Posts using GET Request

```
// route for getting all posts
app.get('/posts',(req,res)=>{
    res.render('index.ejs',{posts});
});
```

Getting specific Post based on Id using GET Request

```
// route to handle display specifie post based on id
app.get('/posts/:id',(req,res)=>{
    let { id } = req.params;

    let post = posts.find((p)=>{
        return (id === p.id);
      });
    res.render('show.ejs',{post});
});
```

Requesting to create a new Post using POST Request

Step-1:- requesting for a page containing form to enter new post detail

```
// route to render form to add new post
app.get('/posts/new',(req,res)=>{
    res.render('new.ejs');
});
```

<u>Step-2:-</u> route handling form data and submit new post detail and redirect to homepage (/posts)

```
// route to handle new post data
app.post('/posts',(req,res)=>{
    // console.log(req.body);
    let id = uuidv4();
    let { username , content} = req.body;
    posts.push({id, username,content});

    /* redirecting to /posts
        after updating or pushing data
        --to database or array in this case */
        res.redirect('/posts');
});
```

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Requesting to Update a Post based on ID using PATCH Request

Step-1:- Include method-override package to receive PUT, PATCH or DELETE Request

```
// including module to receive http requests like put, patch, or delete
const methodOverride = require('method-override');
```

Step-2:- Include method-override middleware in index.is

```
// midleware TO OVERRIDE METHODS REQUEST
app.use(methodOverride('_method'));
```

Step-3:- Changing form action method in edit.ejs

<u>Step-4:-</u> route handling form data and submit edit post detail and redirect to homepage (/posts)

```
// route to handle edit request
app.get('/posts/:id/edit',(req,res)=>{
    let { id } = req.params;
    let post = posts.find((p)=>{
        return (id === p.id);
    });
   res.render('edit.ejs', { post });
});
// route to update our specific post
app.patch('/posts/:id',(req,res)=>{
    let { id } = req.params;
    // console.log(id);
    let post = posts.find((p)=>{
        return (id === p.id);
    });
    // update partial data of post
    post.content = req.body.content;
    // redirect to /posts after updating data
    res.redirect('/posts');
```

Requesting to Update a Post based on ID using DELETE Request

Step-1:- adding delete button and changing form action method in index.ejs

<u>Step-2:</u> route handling form data and submit delete post detail and redirect to homepage (/posts)

```
// ROUTE TO HANDLE DELETE REQUEST
app.delete('/posts/:id',(req,res)=>{
    let { id } = req.params;
    /* filter all elements and remove specific
        related post */
    posts = posts.filter((p)=>{
        return (id !== p.id);
    });
    // redirecting to /posts
    res.redirect('/posts');
});
```

SCAN this QR code to get full notes and source code

