



## Assignment-2

Q1) What is routing? Explain it with ng-route, ng-repeat, & ng-view.

→ Routing in AngularJS allows navigation between different views without reloading the page.

- This is achieved using the ngRoute module.

Key Directives Related to Routing -

• ng-route: Enables in AngularJS by defining different views & controllers.

• ng-view: Acts as a placeholder for dynamically loaded views.

• ng-repeat: Iterates over collections to dynamically generate UI elements.

Example -

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
```

```
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-route.js"></script>
```

```
</head>
```

```
<body ng-app="myApp">
```

```
<a href="#!/home"> Home </a> |
```

```
<a href="#!/about"> About </a>
```

```
<div ng-view> </div>
```

```
<script>
```

```
var app = angular.module("myApp", ["ngRoute"]);
```

```
app.config(function($routeProvider) {  
  $routeProvider
```

```
    .when("/home", {template: "<?> Welcome to Home <?>"})
```



when ("/about", { template: "<h2> About us Page </h2>"  
otherwise({ redirectTo: "/home" }));

});

</script>

</body>

</html>

Ques 2) Discuss controllers in AngularJS with examples.

→ A controller in AngularJS is a javascript function that manages application data & logic.

- It is defined using the ng-controller directive.

Example -

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"> </script>

</head>

<body ng-app="myApp">

<div ng-controller="myController">

<h2> {{ message }} </h2>

</div>

<script>

var app = angular.module("myApp", []);

app.controller("myController", function(\$scope) {

\$scope.message = "Hello, AngularJS";

});

</script>

</body>

</html>





Here, the controller `myController` is defined inside `myApp` and the message is bound to view using `{{ message }}`.

Q43) Discuss default databases in MongoDB.

→ MongoDB has three default databases -

1) Admin:

- used for administrative purposes.
- Contains user roles, authentication data, and system-related command.

2) Local:

- stores temporary data & metadata.
- Does not replicate in a cluster.

3) Config:

- stores configuration settings in a shared ~~folder~~ cluster.
- Includes information about shards and chunk distribution.

These databases are essential for MongoDB's internal functionality.

Q44) Explain Accessing & Manipulating Databases Commands in MongoDB.

→ MongoDB provides various commands to access & manipulate databases.



## \* Accessing databases -

use database name

This command switches to databasename or creates it if doesn't exist.

## \* Manipulating Database Commands -

### 1) Create a Collection -

used to create a collection in database

db.createCollection("students")

### 2) Insert Data -

insertOne() → for single data

insertMany() → for multiple data

eg

insertOne() -

db.students.insertOne({name: "John", age: 22})

db.students.insertMany([ {name: "Ravi", age: 21},  
{name: "Shyam", age: 23} ])

### 3) Find Data -

Used to search data in database

db.students.find()

### 4) Update Data -

Used to update the data in database

- updateOne()

- updateMany()

eg db.students.updateOne({name: "John"}, {\$set: {age: 23}})





### 5) Delete Data -

Used to delete/remove the data.

- deleteOne()
- deleteMany()

eg db.students.deleteOne({name: "thyan"})

These commands helps in managing data efficiently in MongoDB.

Ques) How to handle cookies in python flask?

→ In flask, cookies are handled using the request & make-response modules.

\*Setting a cookie in flask -

```
from flask import Flask, request, make_response  
app = Flask(__name__)
```

```
@app.route('/setcookie')
```

```
def set_cookie():
```

```
    resp = make_response("cookie is set")
```

```
    resp.set_cookie("username", "JohnDoe", max-age=3600)
```

```
    return resp.
```

```
# cookie expires in 1 hour
```

\*Getting a cookie in Flask.

```
@app.route('/getcookie')
```

```
def get_cookie():
```

```
    username = request.cookies.get("username")
```



return f "welcome {username}"

\* Deleting a cookie in Flask -

```
@app.route('/deletecookie')  
def deletecookie():  
    resp = make_response("cookie deleted")  
    resp.delete_cookie("username")  
    return resp
```

This demonstrates how to set, & delete cookies in flask.

Q6) what is flask url building?

→ Flask URL building allows us to dynamically generate URL's for different routes using the `url_for()` function.

example -

```
from flask import Flask, url_for
```

```
app = Flask(__name__)
```

```
@app.route('/home')
```

```
def home():
```

```
    return "welcome to home page!"
```

```
@app.route('/about')
```

```
def about():
```

```
    return "welcome to About Page"
```



```
@app.route('/get_urls')  
def get_urls():  
    return f"Home URL {url_for('home')} <br>  
    About URL {url_for('about')}"
```

Output -

If you visit get\_urls, it returns

Home URL: /home

About URL: /about

This helps in maintaining clean & flexible  
URL's in flask applications.