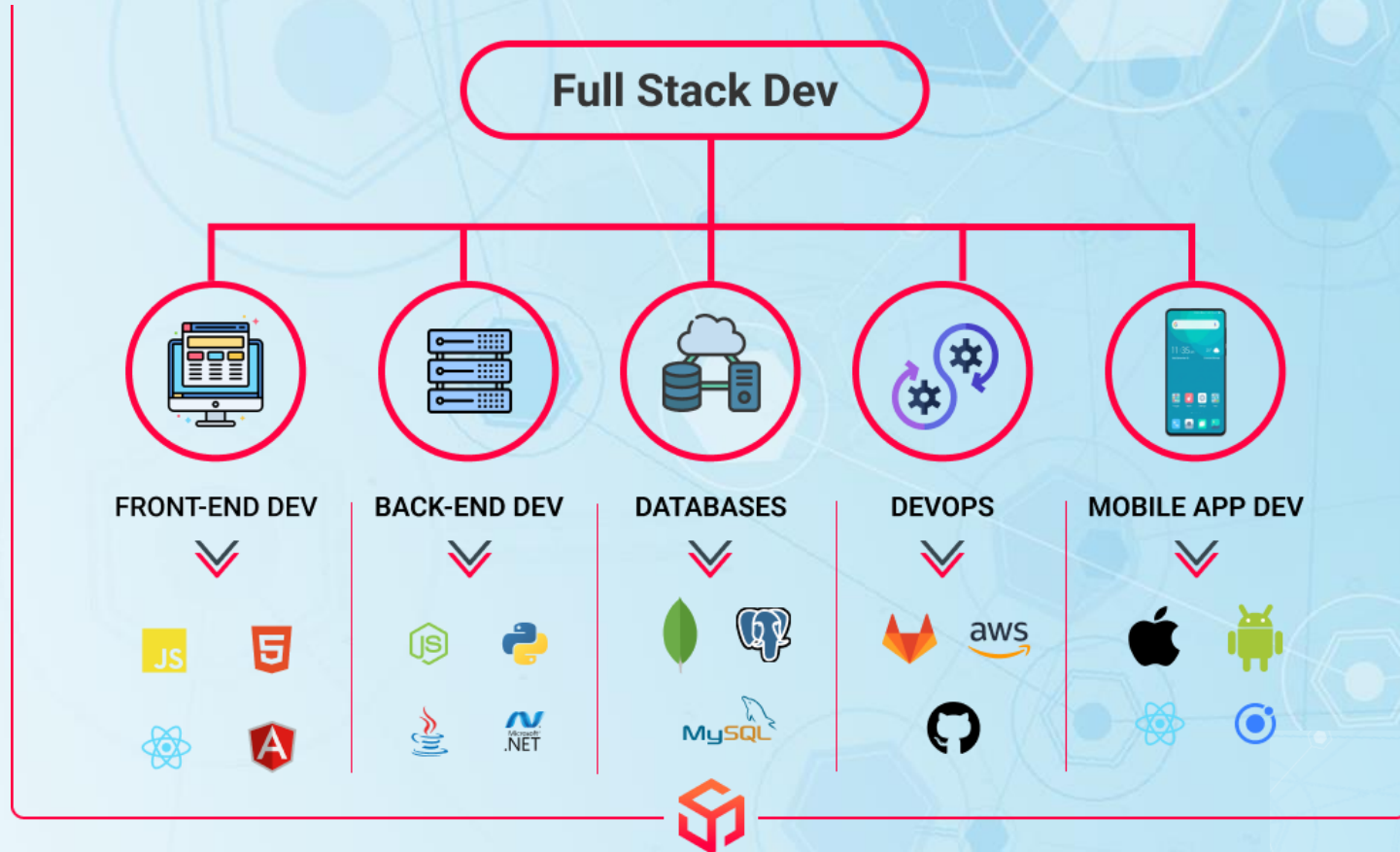


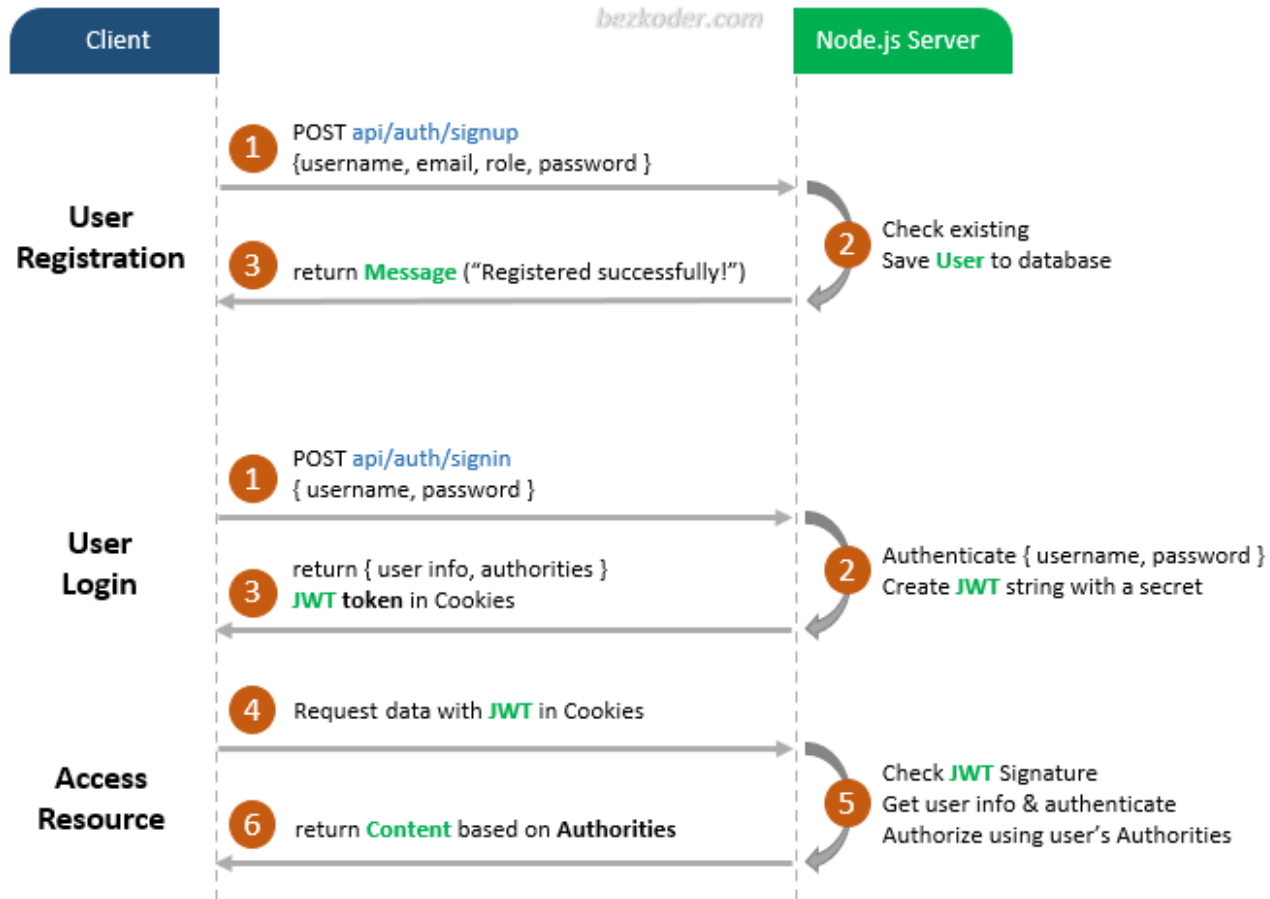
# MC4266 – Full Stack Web Development



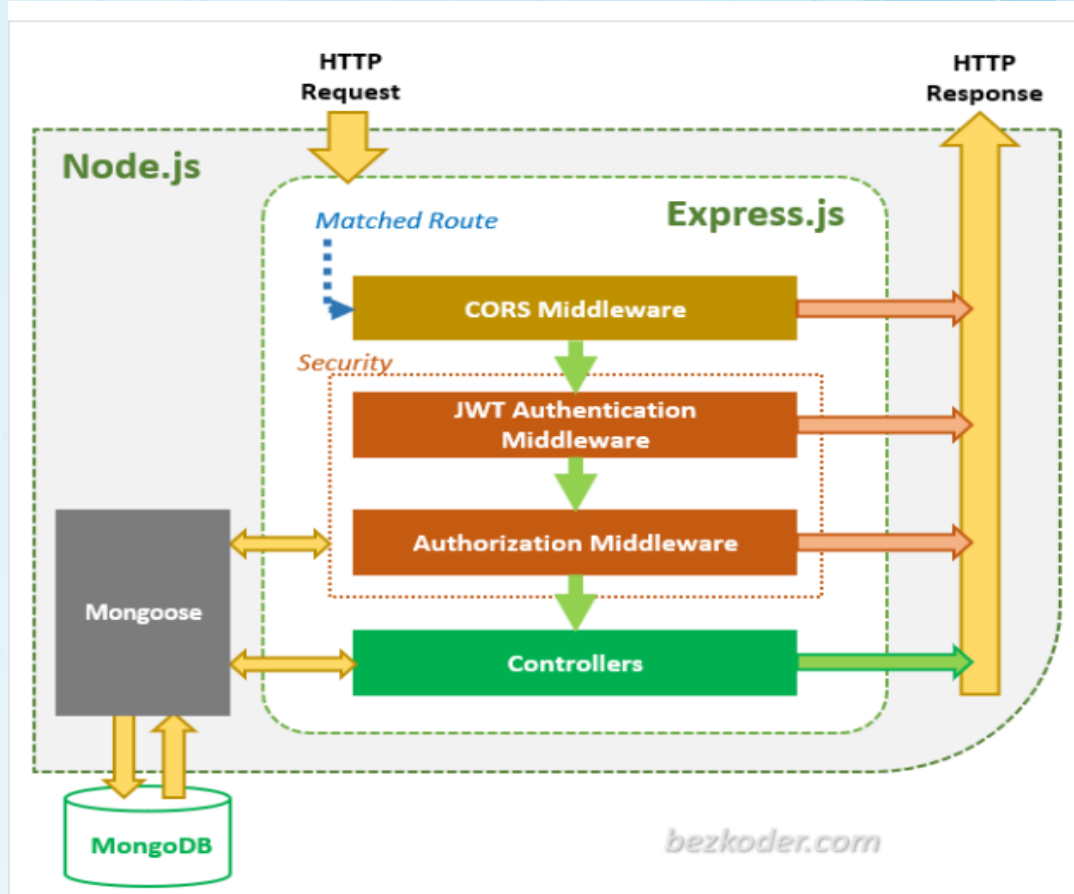
## Ex : 9

**Ex 9:** Create a simple Sign up and Login mechanism and authenticate the user using cookies. The user information can be stored in either MongoDB or MySQL and the server should be built using NodeJS and Express Framework.

## Ex : 9



## Ex : 9



### Ex\_9

#### auth

##### middleware

JS authMiddleware.js

##### models

JS user.js

#### > node\_modules

##### routes

JS auth.js

gear .env

{ } package-lock.json

{ } package.json

JS server.js

## Ex:9

### 1. Create a NodeJS - Directory

```
D:\FSWD_Lab>mkdir Ex_9
```

```
D:\FSWD_Lab>cd Ex_9
```

### 2. Install NaodeJS

```
D:\FSWD_Lab> npm init -y
```

```
D:\FSWD_Lab\Ex_9>npm install express mongoose cookie-parser bcrypt dotenv
```

### 3. Create ex\_9\_server.js in the root directory

```
Ex_9/ex_9_server.js
```

## Ex:9

### 4. Create .env

PORT=5000

MONGO\_URI=mongodb://localhost:27017/Ex9db

JWTAUTHSECRET=your\_secret\_key

### 5. Create models/user.js

### 6. Create routes/user.js

Set path/url

## Ex:9

7. Create server.js

8. Create controller/user.js

For SignUp / Login / Logout / getAllUsers

9. SignUp using postman <http://localhost:2222/auth/signUp>

```
{  
  "name": "Mani",  
  "mobile": "7896541230",  
  "email": "mani@gmail.com",  
  "password": "12345"  
}
```



## Ex:9

**10.Login using Postman :** <http://localhost:2222/auth/login>

```
{  
  "email": "mani@gmail.com",  
  "password": "12345"  
}
```

**11.Getallusers using Postman :** <http://localhost:2222/auth/getAllUsers>

**Add Cookie Token in Header Value**



## Ex:9 Server.js - Explanation

- ❑ import express, cookie-session and cors modules:
- ❑ Express is for building the Rest apis
- ❑ cookie-session helps to stores the session data on the client within a cookie without requiring any database/resources on the server side
- ❑ cors provides Express middleware to enable CORS
- ❑ create an Express app, then add request parsing, cookie-based session middleware and cors middlewares using app.use() method. Notice that we set origin: `http://localhost:8081`.
- ❑ define a GET route which is simple for test.
- ❑ listen on port 8080 for incoming requests.

## Ex:9 Server.js - Explanation

- ❑ keys: sign & verify cookie values. Set cookies are always signed with keys[0], while the other keys are valid for verification, allowing for key rotation.
- ❑ httpOnly: indicate that the cookie is only to be sent over HTTP(S), and not made available to client JavaScript.

## Ex:9 - CheckList

### 1. Check Server Running

```
node server.js
```

### 2. Check URL & Method in Postman or Browser

```
http://localhost:5000/api/signup
```

### 3. Check routing in server

```
const authRoutes = require('./routes/api');  
app.use('/api', authRoutes);
```

## Ex:9 - CheckList

### 4. Check Body parsing Enabled

```
app.use(express.json());
```

### 5. Verify route path routes/auth.js

```
router.post('/signup', ...) // full path is /api/signup
```

```
router.post('/login', ...) // full path is /api/login
```

```
router.get('/getAllUsers', ...) // full path is /api/getAllUsers
```

# Ex:9 – To Do Activity

**Create a Front End** using  
**React JS**



# Any Queries?



*manirajk.mca@srmvalliammai.ac.in*