

### Express.js - Web Framework

Express.js is a fast, unopinionated, and minimalist web framework for Node.js. It simplifies the development of server-side applications.

```
const express = require('express');
const app = express();

app.get('/', (req, res) => {
    res.send('Hello World!');
});

app.listen(3000, () => {
    console.log
('Server is running on port 3000');
});
```

### Mongoose - MongoDB ODM

Mongoose is an Object Data Modeling (ODM) library for MongoDB and Node.js. It provides a schema-based solution to model your data.

```
const mongoose = require('mongoose');
mongoose.connect('mongodb://localhost/mydatabase',
{ useNewUrlParser: true, useUnifiedTopology: true });

const userSchema = new mongoose.Schema({
    name: String,
    age: Number
});

const User = mongoose.model('User', userSchema);

const newUser = new User({ name: 'John', age: 30 });
newUser.save().then(() => console.log('User saved!'));
```

#### Dotenv - Environment Variables

Dotenv loads environment variables from a .env file into process.env. It keeps your configuration separate from your codebase.

```
require('dotenv').config();
const dbPassword = process.env.DB_PASSWORD;
console.log(`Database Password: ${dbPassword}`);
```

## Bcrypt - Password Hashing



Bcrypt is a library to help you hash passwords securely. It's essential for implementing user authentication.

```
const bcrypt = require('bcrypt');
const saltRounds = 10;
const myPlaintextPassword = 's0/\/P4$$w0rD';

bcrypt.hash(myPlaintextPassword, saltRounds,
  (err, hash) => {
    if (err) throw err;
    console.log(`Hashed Password: ${hash}`);
});
```

>

# Jsonwebtoken - JWT for Authentication

Jsonwebtoken is a library to generate and verify JSON Web Tokens (JWT). It's commonly used for secure authentication.

```
const jwt = require('jsonwebtoken');
const user = { id: 1, name: 'John' };
const token = jwt.sign(user, 'secret_key',
{ expiresIn: 'lh' });
console.log(`JWT: ${token}`);
jwt.verify(token, 'secret_key', (err, decoded)
=> {
    if (err) throw err;
    console.log(`Decoded JWT: ${decoded}`);
});
```

# Nodemailer - Sending Emails

Nodemailer is a module for Node.js applications to send emails easily. It's useful for sending notifications, confirmations, and other emails.

```
const nodemailer = require('nodemailer');
const transporter = nodemailer.createTransport({
    service: 'gmail',
    auth: {
        user: 'youremail@gmail.com',
        pass: 'yourpassword'
});
const mailOptions = {
    from: 'youremail@gmail.com',
    to: 'recipient@example.com',
    subject: 'Hello',
    text: 'Hello World!'
};
transporter.sendMail(mailOptions, (error, info)
    if (error) {
        return console.log(error);
    console.log(`Email sent: ${info.response}`);
});
```