

Hashing

Password

Hash
Function

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① `npm i md5`

② `const md5 = require("md5")`

* now:

```
app.post("/register", function(req, res){
  const newUser = new User({
    email: req.body.username,
    password: md5(req.body.password)
  });
  newUser.save(function(err){
    if (err) {
      console.log(err);
    } else {
      res.render("secrets");
    }
  });
});
```

* `console.log(md5("123456"))` & when user did register and typed in email: `user@.com` password: `123456` will have similar hash codes

* now:

```
app.post("/login", function(req, res){
  const username = req.body.username;
  const password = md5(req.body.password);

  User.findOne({email: username}, function(err, foundUser){
    if (err) {
      console.log(err);
    } else {
      if (foundUser) {
        if (foundUser.password === password) {
          res.render("secrets");
        }
      }
    }
  });
});
```

* when user registers and gives a password we hash it and during login also we hash the password and then compare it in the database.