

#### 19.8 Encrypting Password

- 1. Understand the problem with plain text passwords.
- 2. Install a package named: bcryptjs
- 3. Hash the password before saving password.
- 4. Understand that even server does not have the password.



#### 19.8 Encrypting Password

```
prashantjain@Prashants-MacBook-Pro 13 mongoose % npm install bcryptjs
added 1 package, and audited 270 packages in 513ms

48 packages are looking for funding
   run `npm fund` for details

found 0 vulnerabilities
```



## 19.8 Encrypting Password

```
3.
     bcrypt.hash(password, 12).then(hashedPassword => {
       const user = new User({
         firstName: firstName,
         lastName: lastName,
         email: email,
         password: hashedPassword,
         userType: userType
       });
       user save()
         .then(() => {
           res.redirect('/login');
       })
       .catch(err => {
         console.log("Error while creating user: ", err);
       });
     });
```



- 1. Read the email and password from the request body and find the user with the email from the Users collection.
- 2. If the user is not found send an error and re-render the login page, also make changes to the login page to show errors.
- 3. If the user is found, then use the bcrypt compare function to match the entered password, If password does not match send another error, otherwise create a login session and redirect user to the home.



```
exports.postLogin = async (req, res, next) => {
  const { email, password } = req.body;
 try {
   const user = await User.findOne({ email: email });
   if (!user) {
      return res.render('auth/login', {
       pageTitle: 'Login',
       isLoggedIn: false,
       errorMessage: 'Invalid Email'
     });
   res.redirect("/");
 } catch (err) {
   console.log("Error while logging in: ", err);
```



2.



const isMatch = await bcrypt.compare(password, user.password); 3. if (!isMatch) { return res.render('auth/login', { pageTitle: 'Login', isLoggedIn: false, errorMessage: 'Invalid Password' }); req.session.isLoggedIn = true; req.session.user = user; await req.session.save(); res.redirect("/"); } catch (err) { console.log("Error while logging in: ", err);



- 1. Make the navigation bar items display only on the basis of userType by passing the user object to all views.
- 2. Add a field in User Model names favouriteHomes, which is an array of home ids.
- 3. Remove the Favourite Model and the Pre hook from the Home Model.
- 4. Make the favourite user specific and change the following methods:
  - a. postAddFavourites
  - b. getFavourites
  - c. postRemoveFavourite



<% if (isLoggedIn) { %> <% if (user.userType === 'quest') { %> <a href="/homes" class="■bg-blue-600 ■hover:bg-blue-700 ■text-white font-semibold py-2.5 px-6 rounded-lq transition duration-300 ease-in-out transform hover:scale-105 shadow-md"> Homes </a> <a href="/favourites" class="■bg-blue-600 ■hover:bg-blue-700 ■text-white font-semibold py-2.5 px-6 rounded-lq transition duration-300 ease-in-out transform hover:scale-105 shadow-md"> **Favourites** </a> <% } %> <% if (user.userType === 'host') { %> <a href="/host/host-homes" class="■bq-blue-600 ■hover:bq-blue-700 ■text-wh. font-semibold py-2.5 px-6 rounded-lq transition duration-300 ease-in-out transform hover:scale-105 shadow-md"> Host Homes </a> <a href="/host/add-home" class="■bg-blue-600 ■hover:bg-blue-700 ■text-white font-semibold py-2.5 px-6 rounded-lg transition duration-300 ease-in-out transform hover:scale-105 shadow-md"> Add Home </a> **<%** } %>

isLoggedIn: req.session.isLoggedIn,
user: req.session.user,



userType: { type: String, required: true, enum: ['guest', 'host'] favouriteHomes: [{ type: mongoose.Schema.Types.ObjectId, ref: 'Home'



```
exports.postAddFavourites = (req, res, next) => {
4.a.
          const homeId = req.body.id;
          const userId = req.session.user._id;
          User.findById(userId)
            .then(user => {
             if (!user.favouriteHomes.includes(homeId)) {
                user.favouriteHomes.push(homeId);
                return user.save();
              return user;
            })
            .then(() => {
              res.redirect("/favourites");
           })
            .catch((err) => {
              console.log("Error while adding to favourites", err);
              res.redirect("/favourites");
           });
```



```
exports.getFavourites = (req, res, next) => {
  const userId = req.session.user. id;
  User.findById(userId)
    .populate('favouriteHomes')
    .then((user) => {
      res.render("store/favourites", {
        homes: user.favouriteHomes,
        pageTitle: "Favourites",
        isLoggedIn: req.session.isLoggedIn,
        user: req.session.user,
      });
```

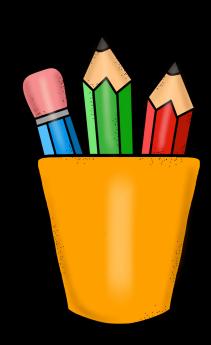


```
exports.postRemoveFavourite = (reg, res, next) => {
4.c.
         const homeId = req.params.homeId;
         const userId = req.session.user._id;
         User.findById(userId)
           .then(user => {
             user.favouriteHomes = user.favouriteHomes.filter(id => id.toString()
             !== homeId);
             return user.save();
           .then(() => {
             res.redirect("/favourites");
           .catch((error) => {
             console.log("Error while remove from favourites ", error);
             res.redirect("/favourites");
           });
```



#### Revision

- 1. What is Authentication
- 2. What is Authorization
- 3. Session based Authentication
- 4. Authentication vs Authorization
- 5. Signup UI
- 6. Using Express Validator
- 7. Adding User Model
- 8. Encrypting Password
- 9. Implementing Login
- 10. Adding User Functions





## Practise Milestone

#### Take your airbnb forward:

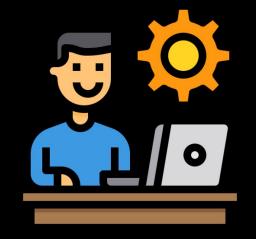
- 1. Add a field to Home model for a host user id.
- 2. Change the home creation to pass the current host id.
- 3. Change the UI of /host-homes to only use homes belonging to the particular host.





#### Practise Milestone (Solution)

const mongoose = require('mongoose'); const homeSchema = new mongoose.Schema({ houseName : {type: String, required: true}, price: {type: Number, required: true}, location: {type: String, required: true}, rating: {type: Number, required: true}, photoUrl: String, description: String, hostId: { type: mongoose Schema Types ObjectId, ref: 'User', required: true





#### Practise Milestone (Solution)

const newHome = new Home({ houseName, price, location, rating, photoUrl, description, hostId: req.session.user.\_id





#### Practise Milestone (Solution)

3.

```
exports.getHostHomes = (req, res, next) => {
  const userId = req.session.user. id;
  Home.find({ hostId: userId }).then((registeredHomes) => {
    console.log(registeredHomes);
    res.render("host/host-homes", {
      homes: registeredHomes,
      pageTitle: "Host Homes",
      isLoggedIn: req.session.isLoggedIn,
     user: req.session.user,
    });
```

