

BACK END WEB DEVELOPMENT

AUTHENTICATION USING DEVISE

AGENDA

- **PRACTICE READING DOCUMENTATION**
- **DEVICE INTEGRATION - THE BASICS**
- **FINAL PROJECT INTENSIVE LABS**

Sign in

Username or Email

Password ([forgot password](#))

Sign in

AUTHENTICATION

Who you are ?

AUTHORIZATION

WHAT YOU HAVE ACCESS TO

HOW AUTHENTICATION DOES IT WORK?

- Validating user identity using a username/password
- Tracking user's identity using a *session*
- Keeping user's identity between visits with a *cookie*.
- Protecting the site with security using *encryption*
 - Using secure cryptographic methods!!!
- Providing additional features based on identity

STORING PASSWORDS

- Passwords should *never* be stored in "plain text", (human readable). If your site is hacked, someone can get everyone's password.
- Always use a "hashing encryption" on the passwords before storing them in the database.
 - This is done for us automatically by auth gems!
- We'll use a gem called 'devise' for today's class.

MANAGING USERS: SESSIONS

- *Sessions* are a special browser feature that hold per-site data for as long as the browser is open.
- *Sessions* go away when they close the browser.
- When the user is authenticated, we store their `user_id` in the *session* .
- The `user_id` allows us to look up the user's info, like their shopping cart, name, blog posts, etc.

MANAGING USERS: COOKIES

- Used for storing small bits of data about users.
- Cookies allow web servers to provide a temporary unique identifier to a browser.
 - Browser storage is not secure.
 - Sensitive data (credit cards, passwords) should never be stored in a cookie.

SESSIONS & COOKIES

- Sessions are used to store user identifiers.
 - Expire when a browser is closed
 - Or whenever the browser wants to
- Cookies can store a small amount of any data.
 - Expire when you tell them to
 - Or when a user manually deletes their cookies

AUTHENTICATION GEMS

Creating authentication from scratch use to be a very complex and challenging process, especially for security

Rails developers have created gems for authentication.
DEVISE is the most popular

DEVISE

By far, the most popular authentication gem is devise.

- Implement, integrate & customize
- Handles complex security, so you don't have to.
- Provides controller filters and view helpers
- Uses bcrypt by default .

DEVISE INTEGRATION

TRY TO DETERMINE THE STEPS
DOCUMENTATION PRACTICE!

<https://github.com/plataformatec/devise/wiki>

DEVISE - BASIC STEPS

STEP #1 - Update gem file
`gem 'devise'`

STEP #2 - Run devise generator to install config files
`rails generate devise:install`

STEP #3 - Add Devise-driven User model
`rails generate devise User`

STEP #4 - Make Devise-driven views visible within your stack
`rails generate devise:views`

FINAL PROJECT LAB

<code >