

## Chapter 13 Notes:

### 13.1 A Micropost model

- Modeled as a resource backed by an Active Record model, similar to users.
  - In the micropost model use **belongs\_to: user** to declare the relationship to user
  - The user model then **has\_many :microposts** to declare it's relationship to microposts
- Require UserID and Content
  - **t.text :content**
  - **t.references :user, foreign\_key: true**
- Also create an index on user\_id and created\_at
  - **add\_index :microposts, [:user\_id, :created\_at]**
  - this creates a multiple key index—using both keys at the same time.

Method	Purpose
<code>micropost.user</code>	Returns the User object associated with the micropost
<code>user.microposts</code>	Returns a collection of the user's microposts
<code>user.microposts.create(arg)</code>	Creates a micropost associated with <b>user</b>
<code>user.microposts.create!(arg)</code>	Creates a micropost associated with <b>user</b> (exception on failure)
<code>user.microposts.build(arg)</code>	Returns a new Micropost object associated with <b>user</b>
<code>user.microposts.find_by(id: 1)</code>	Finds the micropost with id <b>1</b> and <b>user_id</b> equal to <b>user.id</b>

NOTE: Use bootstrap to add in relative times in fixtures: **created\_at: <%= 10.minutes.ago %>**

Using `->` (stabby lambda) to call an anonymous function in microposts model to sort in descending order

```
default_scope -> { order(created_at: :desc) }
```

Adding this to the model allows a dependent micropost to be destroyed when the user itself is destroyed

```
has_many :microposts, dependent: :destroy
```

### 13.2 Showing microposts

- Uses ordered lists and pagination – be sure to check if any posts exist!
- Testing – add 30 microposts for a user

- **<% 30.times do |n| %>**
- **micropost\_<%= n %>:**

- `content: <%= Faker::Lorem.sentence(5) %>`
- `created_at: <%= 42.days.ago %>`
- `user: michael`
- `<% end %>`
- 

### 13.3 Manipulating microposts

Since the `logged_in_user` method will be used in both Users and Microposts this can be moved to the application controller

HTML to render different code depending on if a user is logged in

```
<% if logged_in? %>
...
<% else %>
```

Calls `shared/_error_messages` partial and passes it `f.object`

```
<%= render 'shared/error_messages', object: f.object %>
```

```
<% if object.errors.any? %>
  <div id="error_explanation">
    <div class="alert alert-danger">
      The form contains <%= pluralize(object.errors.count, "error") %>.
    </div>
    <ul>
      <% object.errors.full_messages.each do |msg| %>
        <li><%= msg %></li>
      <% end %>
    </ul>
  </div>
<% end %>
```

The `where` method can be used to perform Active Record selections.

Using escaped query using `'?'` prevents SQL injection.

```
Micropost.where("user_id = ?", id)
```

Redirect back to the previous URL

```
request.referrer || root_url
```

### 13.4 Micropost images: Upload and resize images using CarrierWave

#### Other Notes:

- It is possible to pass variables to Rails partials.
- We can enforce secure operations by always creating and destroying dependent objects through their association.
- Fixtures support the creation of associations.