

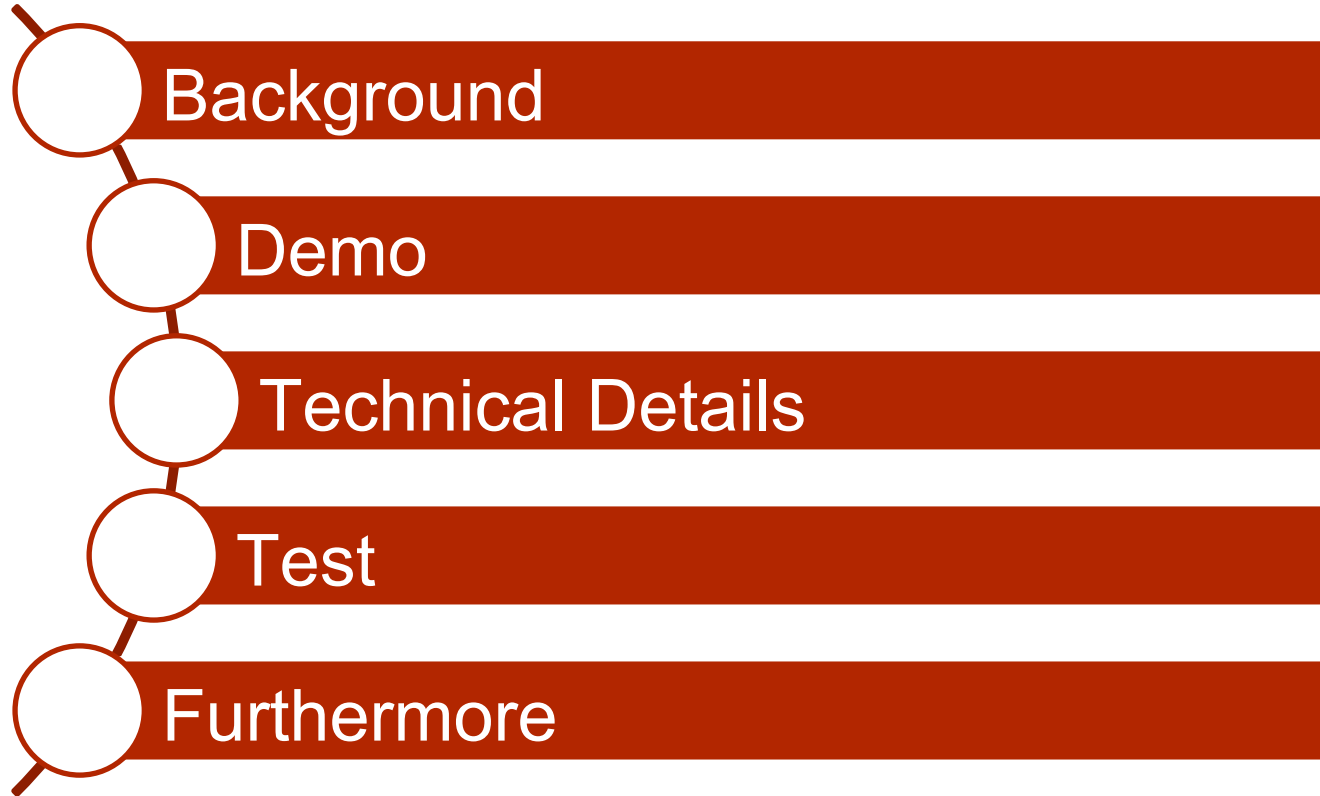


THE OHIO STATE UNIVERSITY

“BuckeyeWhoKnows” BBS Website

Project Team 6

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**Sharing useful
information**

**Some specific
places**

**Student
and Staff**



Background



Trading Used Books

Traffic Status

Events

Finding Teammates/Roommates

Group Discussing







- **Html5**
 - Define site layout with logo, header, footer, and main body content.
- **CSS**
 - Style the site layout based on CSS classes and ids
- **Bootstrap**
 - Make a nicely designed site quickly grids.
- **Sass and the asset pipeline**
 - Eliminate duplication in CSS .
- **Rails**
 - Define custom routing rules.



Generating a User model: `$ rails generate model User name:string email:string`

users	
id	integer
name	string
email	string
created_at	datetime
updated_at	datetime

Active Record comes with a host of methods for creating, saving, and finding data objects, all without having to use the structured query language used by [relational databases](#).



User validations

- Validating Presence
 - validates :name, presence: true
 - validates :email, presence: true
- Validating Length
 - validates :name, presence: true, length: { maximum: 50 }
 - validates :email, presence: true, length: { maximum: 255 }
- Validating Format
 - **VALID_EMAIL_REGEX** = `/^A[w+\\-\\.]+@[a-z\\d\\-\\.]+\\.[a-z]+\\z/i`
- Validating Uniqueness
 - uniqueness: true



Adding Secure Password

- Hashed Password
- Built-in `has_secure_password` method.
- Minimum Length Standards

users	
id	integer
name	string
email	string
created_at	datetime
updated_at	datetime
password_digest	string



- **SignUp Form**
 - Use form_for method(takes in an Active Record object and builds a form using the object's attributes.)
- **Unsuccessful Signups**
 - Display the error messages in the browser
- **Successful Signups**
 - Save the user, written to the database automatically
 - Redirect the browser to show the user's profile
- **Flash**
 - A message that appears on the subsequent page
 - Disappears upon visiting a second page or on page reload



- Login
 - maintain state from one page to the next using temporary cookies via the session method.
 - Change features such as links on the layouts based on login status.
- Logout
 - using a destroy action to delete sessions
- Remember Users
 - Remember token and digest
 - Forgetting users
 - check box



- Password Resets Controller
 - Rails generate controller PasswordResets new edit --no-test-framework
- New passwords reset
 - Define the data model
- Password reset create action
 - Make a nicely designed site quickly grids.
- Password reset emails
 - Password reset mailer and templates



- Model
 - id(integer), content(text), user_id(integer), created_at(datetime), updated_time(datetime)
- Validation
 - validates :user_id, presence: true
 - validates :content, presence: true, length: { maximum: 140 }
- Relationship
 - Micropost belongs_to User
 - User has_many Micropost
- Optimization
 - default_scope -> { order(created_at: :desc)}
 - has_many :microposts, dependent: :destroy



- Controller

- Require user logging in before creating or destroying his/her own microposts.
- Create: POST
- Destroy: DELETE
- Active Record: `feed.paginate(page: params[:page])`, object counts
- Error messages
- Insert picture: CarrierWave, Picture Uploader, ImageMagick



generate the relation model

```
$ rails generate model Relationship follower_id:integer followed_id:integer
```

relationships	
id	integer
follower_id	integer
followed_id	integer
created_at	datetime
updated_at	datetime

- active relationships
- positive relationships



active relationship models (users.following)

- Relationship
 - has_many :active_relationships
 - has_many :followeds, through: :active_relationships
 - belongs_to :follower/followed, class_name: "User"
- Validation
 - test follower_id, followed_id,
 - user.following.include?(other_user)
user.following.find(other_user)
 - following.include?(other_user)

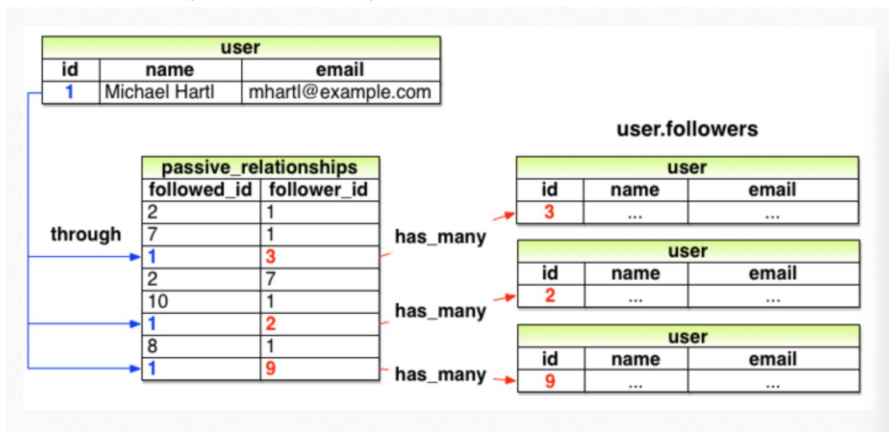


Method	Purpose
<code>active_relationship.follower</code>	Returns the follower
<code>active_relationship.followed</code>	Returns the followed user
<code>user.active_relationships.create(followed_id: other_user.id)</code>	Creates an active relationship associated with user
<code>user.active_relationships.create!(followed_id: other_user.id)</code>	Creates an active relationship associated with user (exception on failure)
<code>user.active_relationships.build(followed_id: other_user.id)</code>	Returns a new Relationship object associated with user



positive relationship models (users.followers)

- Relationship
 - has_many :passive_relationships, class_name: "Relationship"
 - has_many :followers, through: :passive_relationships, source: :follower
- Validation
 - assert archer.followers.include?(michael)
 - following.include?(other_user)





web interface for following users

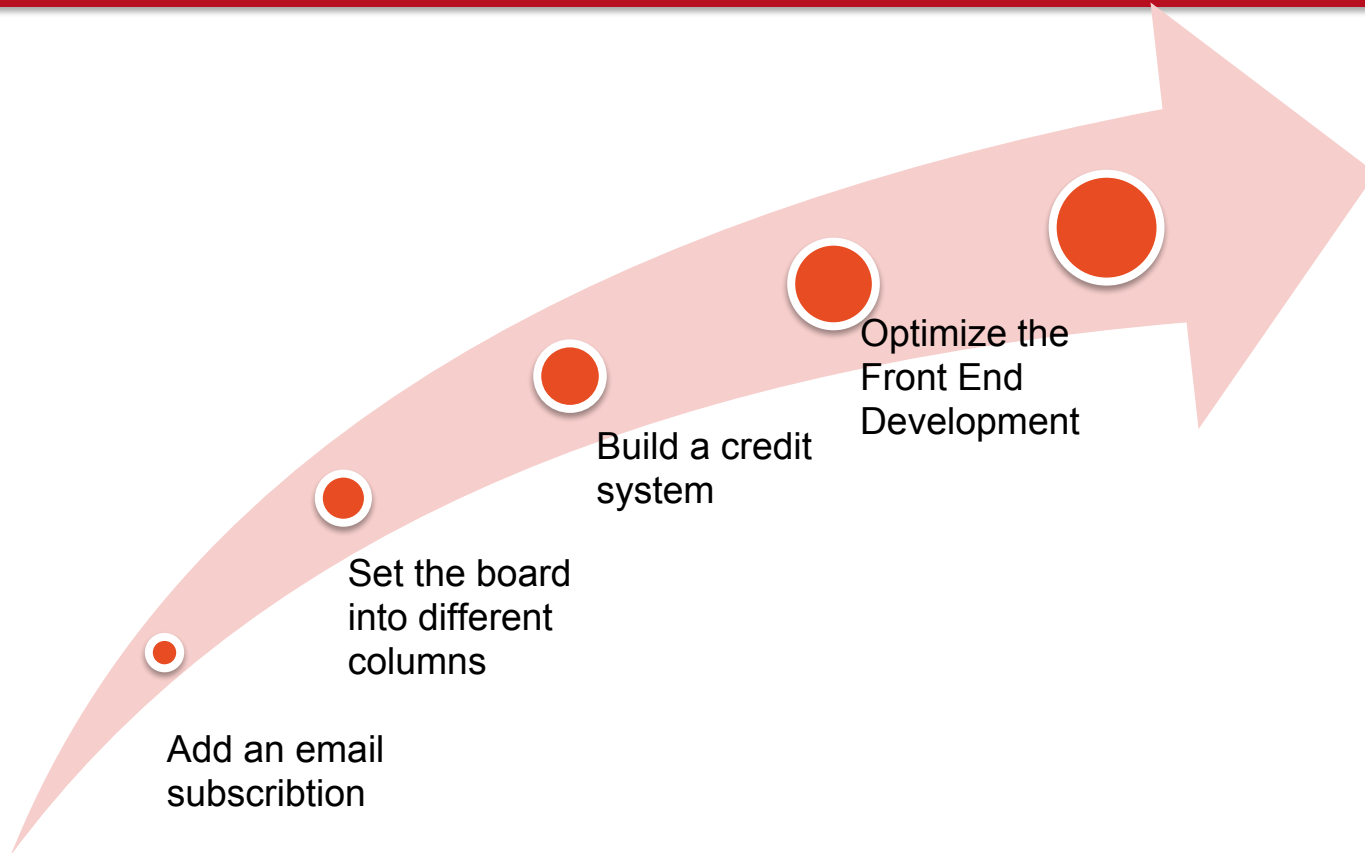
- fill the database
 - use rails db:seed
 - `following.each { |followed| user.follow(followed) }`
`followers.each { |follower| follower.follow(user) }`
- Stats and a following form
 - add following and follower actions to user controller (config.rb)
 - display user stats: `app/views/shared/_stats.html.erb`
 - add follower stats to home page: `app/views/static_pages/home.html.erb`
- following and follower pages
- working following button with Ajax

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[following](#)

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[followers](#)





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Any Questions?