

# **BACK END WEB DEVELOPMENT**

**CLASS 12- ASSOCIATIONS CONTINUED**

# AGENDA

- REVIEW - ACTIVE RECORD: ASSOCIATIONS
- LEARN - ACTIVE RECORD: VALIDATIONS
- PRACTICE - MUSIC APP DEVELOPMENT
- HOME WORK - GAME PLAN!

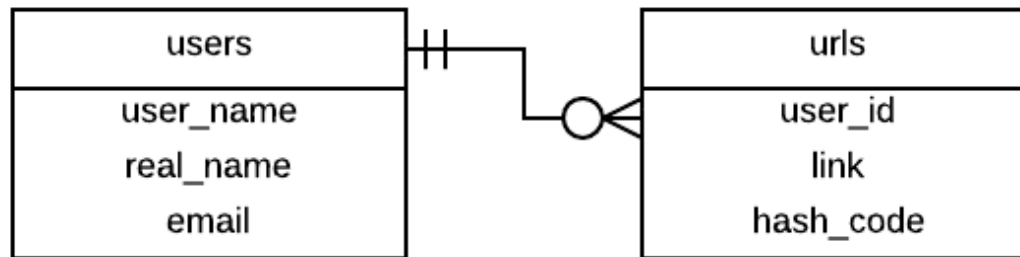
# VALIDATIONS

# ASSOCIATIONS

**ACTIVE RECORD: MODEL**

# ASSOCIATIONS: CONCEPT AND CODE

*An association using an entity-relationship diagram*



```
create_table "urls", force: true do |t|
  t.text      "link"
  t.string    "hash_code"
  t.integer   "user_id"
end

class Url < ActiveRecord::Base
  belongs_to :user
end

class User < ActiveRecord::Base
  has_many :urls
end
```

# ASSOCIATIONS: KEYS

```
class User < ActiveRecord::Base
  has_many :urls
end

class Url < ActiveRecord::Base
  belongs_to :user
end

user.id      # user primary key
url.id       # url primary key

url.user_id  # user foreign key
```

# ASSOCIATIONS: SIX TYPES

- **belongs\_to**
- **has\_many**
- **has\_one**
- **has\_and\_belongs\_to\_many**
- **has\_many :through**
- **has\_one :through**

# SCHEMA DESIGN

## RESOURCES

- Artist
- Track
- Record Label
- Genre

## ASSOCIATIONS

- Artist has many tracks
- Tracks belong\_to artists
- Artists belong\_to record\_labels
- Record Labels has\_many artists



**QUESTIONS?**

# VALIDATIONS

```
class User < ActiveRecord::Base

  validates_presence_of :email
  validates_uniqueness_of :email, {case_sensitive: false}

  before_save { |user| user.email = email.downcase }

end
```

[http://guides.rubyonrails.org/active\\_record\\_validations.html](http://guides.rubyonrails.org/active_record_validations.html)

# **MUSIC APP!**

**CODE ALONG & LAB TIME!**

# **PAIR UP!**

## **ASSOCIATIONS & VALIDATIONS**

# PAIR UP EXERCISE: MUSIC APP!

1. Finish what you didn't for homework!
2. Add Genre to the mix (you choose the approach)
3. Add at least one validation to each model
4. GOOGLE: Add 'search' feature to one index page (search)

RESOURCE:

[http://guides.rubyonrails.org/association\\_basics.htm](http://guides.rubyonrails.org/association_basics.htm)

# **HOMEWORK**

**START FINAL PROJECTS!**

# FINAL PROJECT

## SCHEMA DESIGN

WHAT ARE SOME OF THE MODELS & ASSOCIATIONS NEEDED?

THE CONTROLLERS NEEDED?

VIEWS?

ROUTES?