

Ruby on Rails

Questions

1. In Ruby on Rails, what is the primary purpose of the 'asset pipeline'?

- A. To log errors centrally
- B. To serve static assets efficiently
- C. To handle database transactions
- D. To manage user sessions

2. Which method in ActiveRecord is used to retrieve exactly one record without raising an exception if no record is found?

- A. find_each
- B. find
- C. find_or_initialize_by
- D. find_by

3. In Rails, how does the 'before_action' callback typically function in a controller?

- A. It is used for debugging purposes
- B. It runs after an action is executed
- C. It logs the output of an action
- D. It runs before an action is executed

4. What purpose does the 'has_many :through' association serve in ActiveRecord?

- A. It creates a one-to-one relationship between two models
- B. It allows a many-to-many connection with an intermediate join model
- C. It is used to create a polymorphic association
- D. It directly connects two models without an intermediate table

5. In a Ruby on Rails application, which method is typically used to create a new model instance and persist it to the database?

- A. new
- B. create
- C. initialize
- D. build

6. What is the purpose of the `turbo` gem, often used in Ruby on Rails applications?

- A. It accelerates API requests
- B. It simplifies database migrations
- C. It enhances page rendering using WebSockets
- D. It optimizes front-end performance by making partial updates

7. In Rails, what is the role of the 'migrate' task under 'rake'?

- A. To create a backup of the database
- B. To apply changes defined in migration files to the database
- C. To reset the database
- D. To update the application server

8. Which of the following statements about Rails' 'Mailer' functionality is correct?

- A. It is used to send emails from within a Rails application
- B. It processes background jobs
- C. It handles real-time WebSocket connections
- D. It caches HTTP responses to optimize speed

9. What is the main advantage of using the `form_with` helper in Rails 5 and above?

- A. It scales automatically for mobile devices
- B. It assists in making forms MVC-compliant
- C. It only supports GET requests
- D. It allows the creation of forms that can easily submit data via AJAX

10. In Rails, what purpose does the 'concerns' directory serve?

- A. To configure database connections
- B. To define reusable modules for controllers and models
- C. To handle exception logging globally
- D. To manage environment-specific configurations