

Week 5 Conceptual - NAME: _____/11

MVC

Q1) What does MVC stand for?

- | | | |
|---|-----------------------------|----------------------------|
| 1 | a) modals, vests, coffee | b) model, viewport, change |
| 2 | c) modal, views, controller | d) model, view, controller |

Q2) Which concern in MVC is implemented by Active Record? _____

Routes

An app has Student and Quiz Models (Student |---< Quiz):

Q3) Which route would return a form used to create a new Quiz for a Student?

- | | |
|---|--|
| 1 | a) get <code>'/student/:student_id/quizzes/new'</code> , to: <code>'quizzes#new'</code> |
| 2 | b) post <code>'/student/:student_id/quizzes'</code> , to: <code>'quizzes#create'</code> |
| 3 | c) get <code>'/students/:student_id/quizzes/new'</code> , to: <code>'quizzes#new'</code> |
| 4 | d) new <code>'/student/:student_id/quizzes/new'</code> , to: <code>'quizzes#new'</code> |

Q4) Which route will create the Quiz when the form is submitted?

- | | |
|---|--|
| 1 | a) post <code>'/students/:student_id/quizzes'</code> , to: <code>'quiz#create'</code> |
| 2 | b) post <code>'/students/create/quizzes'</code> , to: <code>'users#create#tweets'</code> |
| 3 | c) post <code>'/students/:student_id/quizzes'</code> , to: <code>'quizzes#create'</code> |
| 4 | d) create <code>'/student/:student_id/quiz'</code> , to: <code>'student#quiz'</code> |

Assuming the following route definitions:

- | | |
|---|--|
| 1 | get <code>'users'</code> , to: <code>'users#index'</code> |
| 2 | post <code>'users'</code> , to: <code>'users#create'</code> |
| 3 | get <code>'users/:id/edit'</code> , to: <code>'users#edit'</code> , as: <code>'edit_user'</code> |
| 4 | get <code>'users/:id'</code> , to: <code>'users#show'</code> , as: <code>'user'</code> |
| 5 | get <code>'users/new'</code> , to: <code>'users#new'</code> |
| 6 | patch <code>'users/:id'</code> , to: <code>'users#update'</code> |
| 7 | delete <code>'users/:id'</code> , to: <code>'users#destroy'</code> |

Q5) Why will you get an error if you browse to `localhost:3000/users/new`?

- | | |
|----|---|
| a) | The show route is above the new route, so it will look for a user with an id of "new" |
| b) | The route definition for the new route is not defined correctly |
| c) | There won't be a <code>new_user_path</code> helper available |
| d) | The edit route is above the new route, so it will look for an edit form |

Q6) How many routes would be defined by the following line of code within `routes.rb`?
`resources :accounts`

Models & Active Record Associations

Assuming the following two Models:

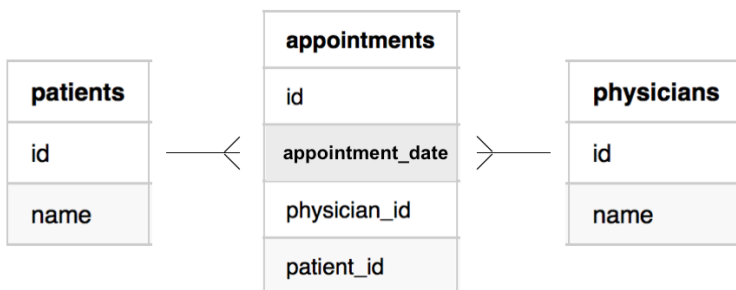
```
1 class Post < ApplicationRecord
2   has_many :comments
3 end
```

```
1 class Comment < ApplicationRecord
2   belongs_to :post
3 end
```

Q7) What will be the names of the two tables in the database?

Q8) Which table(s) will have to include a column for a foreign key?

Assuming this ERD:



Q9) Is the below Patient Model coded properly? (Yes or No)

```
1 class Patient < ApplicationRecord
2   has_many :appointments
3   has_many :physicians, through: :appointments
4 end
```

Q10) Is the below Physician Model coded properly? (Yes or No)

```
1 class Physician < ApplicationRecord
2   has_many :appointments
3   has_many :patients, through: :appointments
4 end
```

Q11) Is the below Appointment Model coded properly? (Yes or No)

```
1 class Appointment < ApplicationRecord
2   belongs_to :physician
3   belongs_to :patient
4 end
```

Thanks for being awesome!