

# CIS 4339 Practice Exam 2, S 2019

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Run the command `rails db:seed` to generate the required data for this exam before beginning the problems.

## 1 Problems

1. Modify the application so that a Job has a description
  - The form should be modified to allow the description to be entered, and the show and index pages modified so that the description is visible.
2. Modify the page that shows a single job to have the title "Job" in an `h1` tag at the top of the page
3. Add a div that appears at the top of *every* page that includes a link to the Job index page
4. Add a method to the job that calculates the total time for the job based on the total of the time required for the tasks associated with the job.
  - Display the time on the job page *and* on the jobs index page in its own column
5. Modify the task model so that an error message is displayed if the task description is not entered
6. Add the `kaminari` gem to the project (<https://github.com/kaminari/kaminari>) and make the necessary modifications so that the job index page shows 30 jobs at a time and has a link to move forward or backward (the default link provided by the gem)

7. Modify the tasks index page so that it shows the job name in the job column (instead of the job hash)
8. Modify the task form so that it has a dropdown menu for the job. In the dropdown, the *name* of the job should be shown.
9. Add the Rails admin gem ([https://github.com/sferik/rails\\_admin](https://github.com/sferik/rails_admin)) to the application using the default url of `/admin`