## Use of Github and pushing the initial application

I generated the Rails application using

```
rails new quiz
```

And a basic controller for a placeholder welcome page:

```
cd rails
bin/rails generate controller welcome index
```

I created a git repository on my Github account to store the project: https://github.com/sandeel/humble-quiz-app

I then initialised a git repository

```
git init
```

And added the remote origin

```
git remote add origin git@github.com:sandeel/humble-quiz-app.git
```

I then pushed my initial project to github

```
git add -A
git commit -m "Initial commit"
git push -u origin master
```

## Database architecture: Models and Migrations

Ruby's `rake` command was used to generate the models for the application.

Examples:

```
bin/rails generate model Quiz title:string
```

to create a model for a quiz. It consists of only a title because the rest of a quiz is composed of other entities, eg. Question, Attempt.

```
bin/rails generate model Question text:string quiz:references
```

for creating a Question which represents a quiz question with text for the question text.

```
bin/rails generate model Attempt quiz:references result:integer
```

for creating a model for Attempt which represents an attempt at a quiz. The model contains a foreign key to the quiz the attempt is on and an integer representing the score the user got on the quiz.

Migrations were used to modify existing models as so:

```
bin/rails g migration AddCorrectAnswerToQuestions correct_answer:int
```

This modified the Question model to add an extra field for the correct answer to the question.

## External Gems

### Gaffe

Gaffe was installed on my machine using

```
sudo gem install gaffe
```

Gaffe was then added to the project by adding the following line to the Gemfile:

```
gem 'gaffe'
```

Gaffe was then added to initializers by creating a file called gaffe.rb in config/initializers with the following content:

```
Gaffe.enable!
```

To allow me to test the error pages in development mode I had to edit `config/environments/test.rb` and change the option `config.consider_all_requests_local` to `true`.

The following is an example of an error page generated by Gaffe. To get an error page, simple try to navigate to a quiz with an id which doesn't exist:
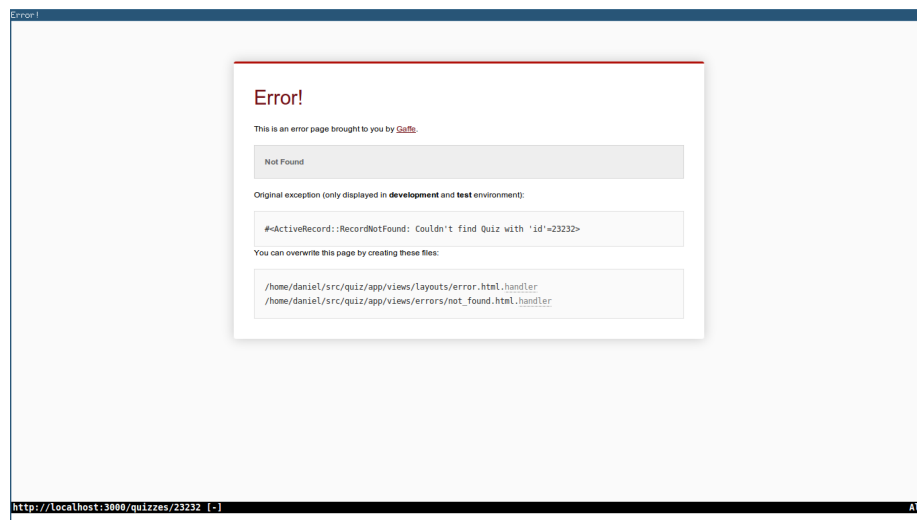
## Custom error handling pages

## Deployment to Heroku

Figure 1: Sample custom error page