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## Take Home Assignment Challenges Solutions

### Challenge

We would like you to complete the following steps:

**1. Complete the first 3 parts of the Django tutorial:**

- a. Part 1: Requests and responses
- b. Part 2: Models and the admin site
- c. Part 3: Views and templates

**Solution:** All the above challenges' solutions are built in the app

**2. The final requirement of the challenge is to extend what you built in the first three parts by adding the following:**

**a. Question text must be unique i.e., no two questions can have the same text.**

**Solution:** The “**Question**” model in the “models.py” file of the app had to be modified to achieve this. In the “**Question**” model, I have set the **unique** attribute of **question\_text** to **True** which imposes the uniqueness constraint on the question text. Later, I have created the migrations and applied them to database schema. Now, I registered the models in the **admin.py** file so that I can manage the questions and choices (used for next task) using Django admin site.

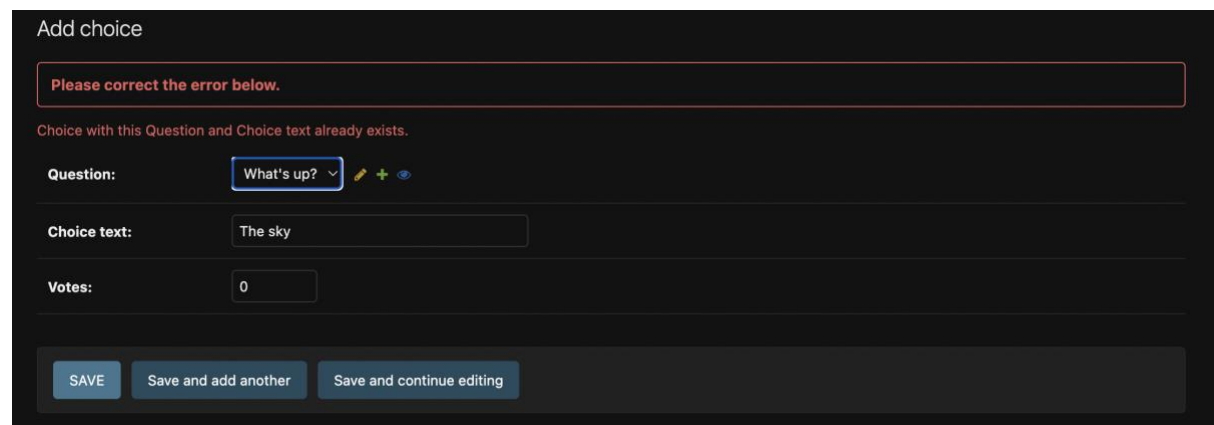
Finally, when I try to create two questions with the same text – “What’s up?” (via Django admin or programmatically) it’s not possible. If you do so, Django will raise the following validation error:

The screenshot shows the 'Add question' form in the Django Admin interface. At the top, there is a red error message box that says 'Please correct the error below.' Below this, the 'Question text' field contains 'What's up?' and is highlighted with a red border. Above the field, a red message states 'Question with this Question text already exists.' The 'Date published' section shows the date '2023-04-27' and time '16:57:30'. At the bottom, there are three buttons: 'SAVE', 'Save and add another', and 'Save and continue editing'.

**b. Choice text within a question must be unique i.e., for a given question no two choices can have the same text.**

**Solution:** I added `unique_together = ('question', 'choice_text')` in the in the Choice model's Meta class, this is to ensure the uniqueness of the choices within a given question. Later, I have created the migrations and applied them to database schema.

Finally, when I try to create two choices (The sky) with the same text for a question - "What's up?" (via Django admin or programmatically) it's not possible. If you do so, Django will raise the following validation error:



The screenshot shows the 'Add choice' form in the Django Admin interface. At the top, there is a red error message box that says 'Please correct the error below.' Below this, a message states 'Choice with this Question and Choice text already exists.' The form fields are as follows: 'Question:' is a dropdown menu with 'What's up?' selected; 'Choice text:' is a text input field containing 'The sky'; and 'Votes:' is a text input field containing '0'. At the bottom of the form, there are three buttons: 'SAVE', 'Save and add another', and 'Save and continue editing'.