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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.

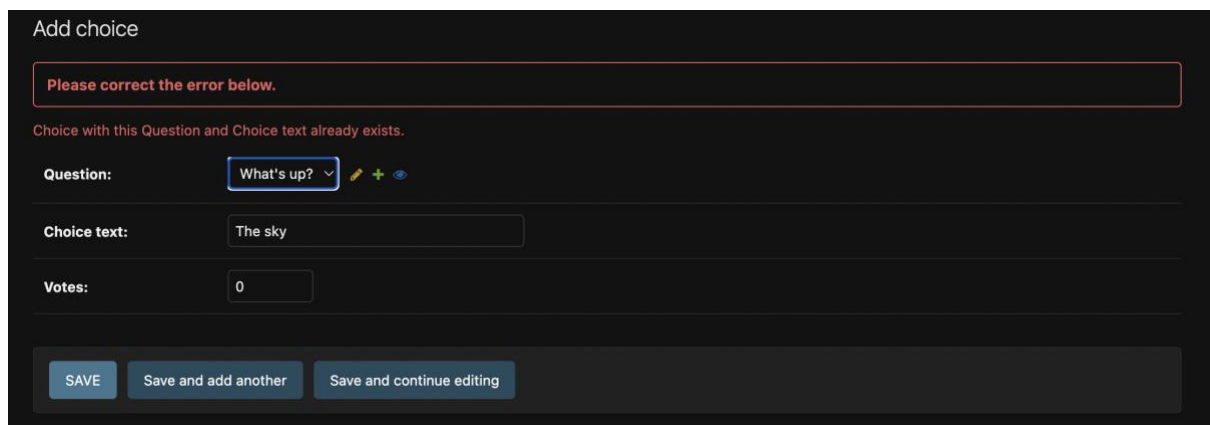
Finally, when I try to create two questions with the same text – “What’s up?” (via Django admin or programmatically) it’s not possible. If you do so, Django will raise the following validation error:

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 Django Admin. At the top, a red error message box states: 'Please correct the error below.' Below this, a message reads: 'Choice with this Question and Choice text already exists.' The form fields are as follows:

- Question:** A dropdown menu with 'What's up?' selected. To the right of the dropdown are icons for adding, deleting, and viewing details.
- Choice text:** A text input field containing 'The sky'.
- Votes:** 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'.

NOTE: I have added another question in the app “How are you?” with choices “I am fine” and “Not so great” for testing purposes, kindly ignore if it’s not of use.