django_assignment_001.md

Building Web App with Django

Let's build a Question App.

Build the following views to make your web app functional:

- get_list_of_questions
- create question
- get question
- update question
- delete question

Write all your code in the questions app given to you.

You need to write:

- urls: Each view has a URL specified. Follow the exact URL naming.
- views: Write all your views in **views.py** dile of the questions app. Give your views the exact name mentioned at each view discussed below
- templates: Templates for each of the below views are already present in the app given to you. You need to make slight changes with the knowledge you have learned in the Django tutorials to make them fully functional.
- models: Write Question model as mentioned below with the exact field and model names
 - o model name: Question
 - o fields:
 - text TextField
 - answer- TextField

Suggested Process:

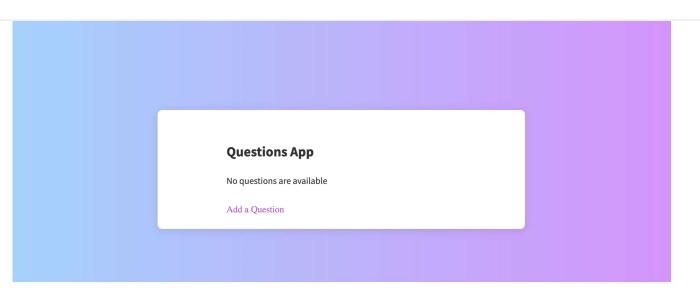
- Write all the URLs first.
- Start with writing dummy views by rendering the suggested templates at each view (if there
 are more than one then choose any one of them)

images provided at each view

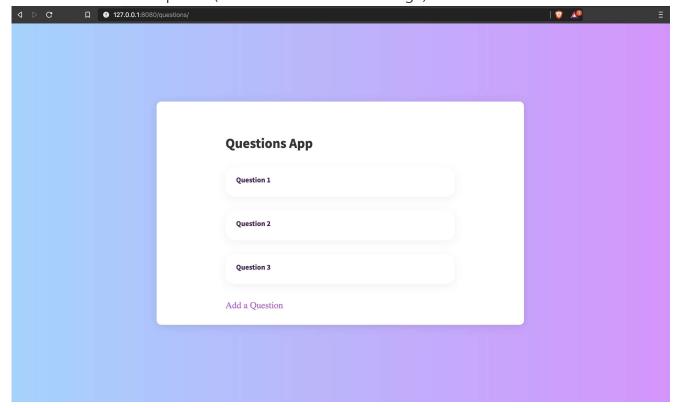
- Separate the differentiation into two categories
 - logic in the view
 - logic in the template
- Logic in View:
 - Filling templates with data from the database
 - First list down all the data needed
 - Pass appropriate data to the render method
 - Render response based on the data in the request
 - Use appropriate methods/attributes to access data in the request body
 - Get HTTP Method 🖸
 - Accessing data in body 🖸
- Logic in Template:
 - Depending on the scenario use one of the following
 - Using if-else block
 - Using loops
 - When making HTTP Request to a view from templates, double-check the URLs. Properly pass question_id in URL paths where required.

Get list of Questions

- View name: get_list_of_questions
- URL: http://localhost:8080/questions/ ☐
- When there are no questions in the database, your view should return the following HTTP Response



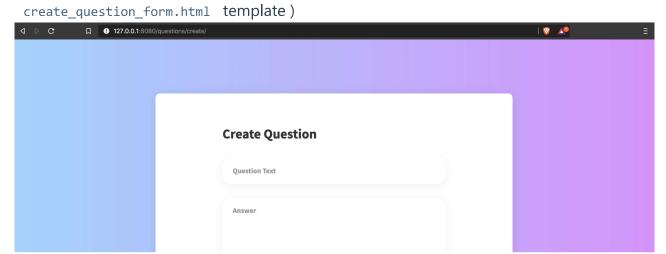
• When there are questions in the database, your view should return all the questions in the database as HTTP Response (as shown in the below image)



• Make use of get_list_of_questions.html template given in the questions app.

Create Question

- This question has two parts
- Part1
 - When an HTTP Request with the GET method is sent on the above url, Your view is expected to show the below form so that users can create new questions (use



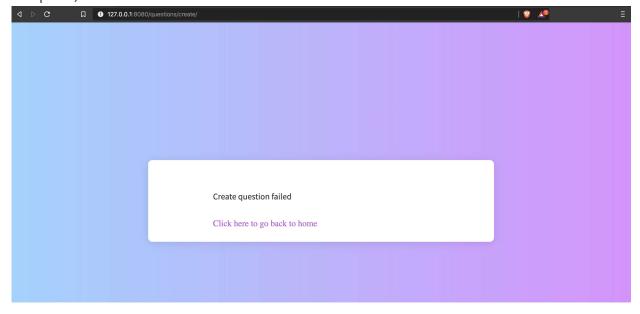
create_question_form.html is already coded (you need not make any changes in this template) in a way that on clicking save button an HTTP Request with the POST method is sent on the above URL along with the data in the given form.

Part 2

- When an HTTP request with the POST method is sent to the above URL. Your view is expected to save the data (body of the HTTP Request) in the database if it's valid (i.e. question and answer should be nonempty strings).
- In response
 - If given data is valid, send a success response (use create_question_success.html template)

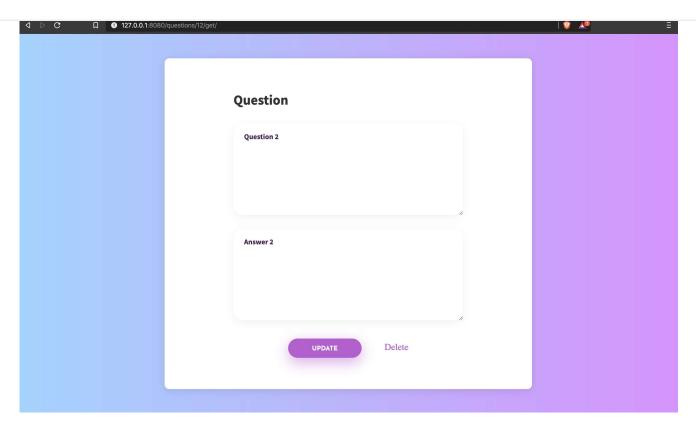


■ If given data is invalid, send a failure response (use create_question_failure.html template)



Get Question

- View name: get_question
- URL: http://localhost:8080/questions/{question_id}/get/□



This view will be called when you click a question on the home page.

Update Question

- View name: update_question
- URL: http://localhost:8080/questions/{question_id}/update/ ☐
- On clicking the update button in the Get Question view, an HTTP request is made to the above URL
- Your view is expected to save this data in the database if it's valid (i.e., question and answer should be nonempty strings).
- In response, users should be shown a success response in case of success else a failure response.



Failure Response (use update_question_failure.html template)

Delete Question

- View name: delete_question
- URL: http://localhost:8080/questions/{question_id}/delete/□

valid(i.e., a question with given question_id is in the database).

- In response, users should be shown a success response in case of success else a failure response.
 - Success Response (use delete_question_success.html template)
 - Failure Response (use delete_question_failure.html template)

Additional Questions [Optional]

Sort Questions

- View name: get list of questions
- URL: http://localhost:8080/questions/□
- Your view should accept sort_by query parameter (or query string) if the value for the query parameter(query string) is
- asc your view should show the questions in ascending order of question text.
- desc your view should show the questions in ascending order of question text. If the values
- If no value is passed to the query parameter, then sort then in ascending order of question text
- You can make use of the below html code for this question