

Django Written Question

1. Explain the importance of APIs in modern web applications.
2. What are the key concepts of Django REST Framework (DRF)?
3. What are the elements of competency in Django user management?
4. Describe how to use built-in user management features in Django.
5. When would you opt for custom user management in Django?
6. How do you manage static resources in Django for UI customization?
7. Explain the process of applying Bootstrap on Django templates.
8. Why is UI customization important in web development?
9. Describe the steps involved in creating forms in Django.
10. What is a Model Form in Django, and when would you use it?
11. Give examples of Django Custom Form Fields and Widgets.
12. How do you create a model in Django? Provide an example.
13. Explain the concept of Django model queries and managers.
14. What are class-based views in Django, and how do they differ from function-based views?
15. Explain the role of Django URLs and Views in web development.
16. How do Django templates contribute to creating dynamic web pages?
17. What is Django Application Management, and why is it important?
18. What is the Django MVT architecture?
19. What is the difference between Django and other web frameworks?
20. How does Django handle databases?
21. What is a Django app?
22. What is the purpose of the manage.py file in a Django project?
23. How do you start a new Django project?
24. What is the role of the settings.py file in a Django project?
25. How do you create a new app within a Django project?
26. What is the purpose of urls.py in a Django project?
27. How do you define a URL pattern in Django?
28. How do you include an app's URL patterns in the project's main URL configuration?
29. What are Django views?
30. What are Django models?
31. How do you define a model in Django?
32. What is an ORM, and how does Django use it?
33. How do you create a migration in Django?
34. How do you apply migrations in Django?
35. What is the Django admin interface?
36. How do you create a superuser in Django?

37. How do you register a model with the Django admin?
38. What is a Django template?
39. How do you render a template in Django?
40. How do you pass context to a template in Django?
41. What are Django template tags and filters?
42. How do you extend templates in Django?
43. What are Django static files?
44. What are Django media files?
45. How do you handle file uploads in Django?
46. What is the purpose of `__init__.py` in a Django app?
47. What is the Django shell, and how do you use it?
48. How do you connect a Django project to a database?
49. What is a model field in Django?
50. What are the different types of model fields in Django?
51. How do you set default values for model fields in Django?
52. How do you make a field optional in a Django model?
53. What is a primary key in Django models?
54. How do you define relationships between models in Django?
55. What is a foreign key in Django?
56. What is a one-to-one relationship in Django?
57. What is a many-to-many relationship in Django?
58. How do you create a custom manager in Django?
59. What is the purpose of the Meta class in Django models?
60. How do you order query results in Django?
61. How do you filter query results in Django?
62. What is the purpose of the `get_object_or_404` function in Django?
63. How do you use the Q object in Django queries?
64. What is a model method in Django?
65. What is a model property in Django?
66. How do you override the save method in a Django model?
67. How do you create a custom model field in Django?
68. How do you create model forms in Django?
69. What is the `ModelForm` class in Django?
70. How do you customize validation in a `ModelForm`?
71. How do you create formsets in Django?
72. What is the `Form` class in Django?
73. How do you customize form validation in Django?
74. How do you render a form in a Django template?
75. How do you use the `form_valid` method in Django class-based views?
76. How do you create and use a form wizard in Django?
77. What are function-based views in Django?

78. What are class-based views in Django?
79. How do you create a function-based view in Django?
80. How do you create a class-based view in Django?
81. What is a generic view in Django?
82. How do you use the ListView class in Django?
83. How do you use the DetailView class in Django?
84. How do you use the CreateView class in Django?
85. How do you use the UpdateView class in Django?
86. How do you use the DeleteView class in Django?
87. What is the get_context_data method in Django class-based views?
88. What is the reverse function in Django?
89. How do you handle 404 errors in Django?
90. What is the purpose of the include function in Django URL configuration?
91. How do you use URL namespaces in Django?
92. What is the path function in Django URL configuration?
93. What is the re_path function in Django?
94. How do you capture URL parameters in Django?
95. How do you use regular expressions in Django URL patterns?
96. How do you create a template in Django?
97. What is the purpose of the block tag in Django templates?
98. How do you use the extends tag in Django templates?
99. What is the include tag in Django templates?
100. How do you use the for loop in Django templates?
101. How do you use the if statement in Django templates?
102. How do you use the with statement in Django templates?
103. What is the url tag in Django templates?
104. How do you load static files in Django templates?
105. How do you load media files in Django templates?
106. How do you use template filters in Django?
107. How do you create custom template filters in Django?
108. How do you use template tags in Django?
109. How do you create custom template tags in Django?
110. What is the csrf_token tag in Django templates?
111. How do you handle forms in Django templates?
112. How do you display form errors in Django templates?
113. What is the {{ }} syntax in Django templates?
114. What is the {% %} syntax in Django templates?
115. How do you comment out code in Django templates?
116. How do you use the static tag in Django templates?
117. What are template inheritance and template extending in Django?
118. How do you create a base template in Django?

119. How do you use the {% empty %} tag in Django templates?
120. What is the purpose of the context parameter in the render function?
121. How do you include CSS files in Django templates?
122. How do you include JavaScript files in Django templates?
123. How do you handle form validation errors in Django templates?
124. How do you display messages in Django templates?
125. How do you set up user authentication in Django?
126. What is the User model in Django?
127. How do you create a user in Django?
128. How do you authenticate a user in Django?
129. How do you log in a user in Django?
130. How do you log out a user in Django?
131. How do you restrict access to views in Django?
132. How do you use the login_required decorator in Django?
133. What is the UserProfile model in Django?
134. How do you extend the User model in Django?
135. How do you handle password change in Django?
136. How do you handle password reset in Django?
137. What is ORM in Django?
138. How does Django ORM interact with the database?
139. What are the benefits of using Django ORM?
140. How do you define a model in Django?
141. What is the Meta class in a Django model?
142. How do you specify a table name in a Django model?
143. How do you define a primary key in a Django model?
144. What is the default primary key field in Django models?
145. How do you define a foreign key in a Django model?
146. What is the purpose of the related_name attribute in a foreign key field?
147. How do you define a one-to-one relationship in Django?
148. How do you define a many-to-many relationship in Django?
149. How do you use the built-in authentication views in Django?
150. How do you create custom authentication views in Django?
151. How do you handle user registration in Django?
152. How do you send email confirmation for user registration in Django?
153. What is the auth app in Django?
154. How do you use the AbstractUser model in Django?
155. How do you use the AbstractBaseUser model in Django?

156. How do you create a custom model manager in Django?
157. What is the purpose of the objects attribute in a Django model?

158. How do you filter query results in Django ORM?
159. What is the difference between filter and exclude methods in Django ORM?
160. How do you use the get method in Django ORM?
161. What happens if the get method does not find any records?
162. What happens if the get method finds multiple records?
163. How do you order query results in Django ORM?
164. What is the all method in Django ORM?
165. How do you use the values method in Django ORM?
166. What is the difference between values and values_list methods in Django ORM?
167. What is the Q object in Django ORM?
168. What is the F expression in Django ORM?
169. How do you create a new record in Django ORM?
170. How do you update an existing record in Django ORM?
171. How do you delete a record in Django ORM?
172. How do you perform bulk create in Django ORM?
173. How do you perform bulk update in Django ORM?
174. How do you perform bulk delete in Django ORM?
175. What is the save method in Django ORM?
176. What is the delete method in Django ORM?
177. What are the limitations of Django ORM?
178. How do you use the exists method in Django ORM?
179. How do you perform migrations in Django?
180. How do you handle schema changes in Django ORM?

Django Oral Question

Basic Concepts

1. What is Django and what is it used for?
2. Who created Django, and when was it first released?
3. Explain the Django MVT architecture.
4. What are the main features of Django?
5. How do you start a new Django project?
6. What is the purpose of the manage.py file in a Django project?
7. How do you create a new app within a Django project?
8. What is the purpose of the settings.py file in a Django project?
9. Explain the role of urls.py in a Django project.
10. What is a view in Django?
11. How do you define a URL pattern in Django?
12. How do you include an app's URL patterns in the project's main URL configuration?
13. What is a Django model?
14. How do you define a model in Django?

15. What is Django's ORM and how does it work?
16. How do you create a migration in Django?
17. How do you apply migrations in Django?
18. What is the Django admin interface?
19. How do you create a superuser in Django?
20. How do you register a model with the Django admin?
21. What is a Django template?
22. How do you render a template in Django?
23. How do you pass context to a template in Django?
24. What are Django template tags and filters?
25. What are Django static files?
26. How do you serve static files in Django?
27. What are Django media files?
28. How do you handle file uploads in Django?
29. What is the purpose of `__init__.py` in a Django app?
30. What is the Django shell, and how do you use it?

Models and Database

31. What is a model field in Django?
32. What are the different types of model fields in Django?
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42. How do you filter query results in Django?
43. What is the purpose of the `get_object_or_404` function in Django?
44. How do you perform raw SQL queries in Django?
45. How do you use the F expression in Django queries?
46. How do you use the Q object in Django queries?
47. What is a model method in Django?
48. What is a model property in Django?
49. How do you override the save method in a Django model?
50. How do you use the signals framework in Django?

Views and URL Configuration

51. What are function-based views in Django?
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58. How do you use the CreateView class in Django?
59. How do you use the UpdateView class in Django?
60. How do you use the DeleteView class in Django?
61. What is a mixin in Django class-based views?
62. How do you use the LoginRequiredMixin in Django?
63. How do you use the PermissionRequiredMixin in Django?
64. How do you use the UserPassesTestMixin in Django?
65. What is the get_context_data method in Django class-based views?
66. How do you override the dispatch method in Django class-based views?
67. What is the get_queryset method in Django class-based views?
68. How do you paginate query results in Django?
69. What is the reverse function in Django?
70. What is the reverse_lazy function in Django?

Templates and Static Files

71. How do you create a template in Django?
72. What is the purpose of the block tag in Django templates?
73. How do you use the extends tag in Django templates?
74. What is the include tag in Django templates?
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86. How do you handle forms in Django templates?

Authentication and Authorization

87. How do you set up user authentication in Django?
88. What is the User model in Django?
89. How do you create a user in Django?
90. How do you authenticate a user in Django?
91. How do you log in a user in Django?
92. How do you log out a user in Django?

93. How do you restrict access to views in Django?
94. How do you use the login_required decorator in Django?
95. What are permissions in Django?
96. How do you create custom permissions in Django?
97. How do you check for permissions in Django?
98. How do you create user groups in Django?
99. How do you assign permissions to user groups in Django?
100. How do you handle password reset in Django?