

Backend Code Review:

Details

Objectives

General Comments

Unresolved 14

Resolved 1

Number of files included: 30

t3-discovery-tool-repo

- api
 - models
 - __init__.py
 - idea.py 4
 - user.py
 - resources
 - __init__.py
 - auth.py
 - auth_endpoints.py 3
 - idea_endpoints.py 5
 - ideas.py
 - ping.py 1
 - test_endpoints.py
 - user_endpoints.py 2
 - users.py
 - tests
 - endpoints
 - test_auth_endpoint.py
 - test_ideas_endpoint.py
 - test_users_endpoint.py
 - models
 - test_idea_model.py
 - test_user_model.py
 - __init__.py

gitignore

/api/models/idea.py 4

786601

Kerry

assignee is no longer required field for idea per recent client meeting feedback

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Kerry marked as UNRESOLVED 15:59 Resolve

```
11 title = db.StringField(required=True, max_length=255)
12 details = db.StringField(max_length=1024)
13 idea_type = db.StringField(default="draft", validation=lambda idea_type: idea_type in ["draft", "pitch", "title"])
```

Kerry

Type of an idea will be 'draft' or 'pitch', 'title' is no longer in scope

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Kerry marked as UNRESOLVED 16:01 Resolve

```
14 status = db.StringField(default="drafted", validation=lambda status: status in ["drafted", "awaiting approval", "approved", "parked", "rejected", "assigned"])
15 created_at = db.DateTimeField(default=datetime.utcnow)
16 updated_at = db.DateTimeField(default=datetime.utcnow)
17 pitch_approvals = db.ListField(field=db.DictField(null=True), default=lambda: [])
18 title_approvals = db.ListField(field=db.DictField(null=True), default=lambda: [])
```

Kerry

Need to reflect recent client meeting changes - title is no longer in scope

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```
19
20 meta = {'collection': 'ideas'}
21
22 class IdeaSchema(ModelSchema):
23     class Meta:
24         model = Idea
25
26 display_only_fields = ("creator_id")
```

Kerry

creator_id needs to be checked before being used

1. t3-discovery-tool/api/models/idea.py
[Defect] line 26: the creator_id should be checked before use.
[Suggestion] Check the creator_id and handle error
2. t3-discovery-tool/api/models/idea.py
[Defect] line 10: assignee is no longer a required field for idea per recent client meeting feedback.
[Suggestion] Remove it
3. t3-discovery-tool/api/models/idea.py
[Defect] line 13: Type of idea will only be 'draft' or 'pitch'.
[Suggestion] Remove 'title'
4. t3-discovery-tool/api/models/idea.py
[Defect] line 18: Need to reflect recent client meeting changes - title is no longer in scope
[Suggestion] Remove 'title'

T3CR-2 15

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__init__.py

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/api/resources/idea_endpoints.py Added 5

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30

31 user_id = get_jwt_identity()

Kerry

Should handle the case when get_jwt_identity() returns error

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Kerry marked as UNRESOLVED 19:00 Resolve

32 idea_data, error = idea_schema.load(api.payload)

33

34

35 try:

36 new_idea = Idea(creator_id=user_id, **idea_data).save()

37 except Exception as e:

38 return str(e), 400

39

40 return idea_schema.dump(new_idea), 200

41

42 class IdeaEndpoint(Resource):

43 @login_required

44 def get(self, idea_id):

45 """Return a specific user entry."""

46

47 idea = Idea.objects.get_or_404(id=idea_id)

T3CR-2 15

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.atianore

/api/resources/idea_endpoints.py Added 5

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51 @login_required

52 def patch(self, idea_id):

53 """Update the idea"""

54

55 idea = Idea.objects.get_or_404(id=idea_id)

56

57 user_id = get_jwt_identity()

Kerry

Should handle the case when get_jwt_identity() returns error

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Kerry marked as UNRESOLVED 19:00 Resolve

58 current_user = User.objects.get_or_404(public_id=user_id)

59

60 idea_data, error = idea_schema.load(api.payload['data'])

61

62 # print(new_idea.pitch_approvals)

63 # print(len(new_idea.pitch_approvals))

64 # print(new_idea.title_approvals)

65 # print(len(new_idea.title_approvals))

66

Kerry

Need to remove debug statements

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Kerry marked as UNRESOLVED 04 Nov Resolve

67 if idea_data.get("assignee", None):

68 if current_user.role != "admin":

69 return {"msg": "Only admins can assign pitches."}, 403

70

71 if idea.assignee:

72 return {"msg": "This pitch has already been assigned to {}".format(idea.assignee)}, 400

73

74 if idea.idea_type != "pitch":

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102

idea.update(details=idea_data["details"], updated_at=datetime.utcnow)

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Kerry

Should consider multi-thread safety when performing delete operations

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8. t3-discovery-tool/api/resources/idea-endpoints.py
[Defect] line 31,57: Should consider get_jwt_identity() error here and solve it.
[Suggestion] Implement error handling
9. t3-discovery-tool/api/resources/idea-endpoints.py
[Defect] line 47: Should check the return value of Idea.objects.get_or_404()
[Suggestion] Implement error handling
10. t3-discovery-tool/api/resources/idea-endpoints.py
[Defect] line 67: Other branches should be considered.
[Suggestion] Implement logic for other branches
11. t3-discovery-tool/api/resources/idea-endpoints.py
[Defect] line 128: Multi-thread safety should be considered when doing delete operations
[Suggestion] Implement a locking mechanism for multiple-user scenario
12. t3-discovery-tool/api/resources/idea_endpoints.py
[Defect] line 62: Need to remove debug statements
[Suggestion] Remove them

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test_ideas_endpoint.py

/api/resources/user_endpoints.py Added 2

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3

4 from flask_restplus import Resource

5

6 from ..extensions import api, bcrypt

7 from ..models import User, user_schema, users_schema

8 from ..decorators import admin_required, login_required

9 from ..fields import user_fields, user_credential_fields, update_user_fields

10

11

12 class UsersEndpoint(Resource):

Kerry

The class name UsersEndpoint may be confusing with UserEndpoint, better change it

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13 @admin_required

14 def get(self):

15 """Return a list of users."""

16

17 return users_schema.dump(User.objects.all())

18

19 @api.expect(user_fields)

20 @admin_required

21 def post(self):

22 """Create a new user."""

23

24 user_data, error = user_schema.load(api.payload)

25 user_data["public_id"] = uuid.uuid4()

26

27 try:

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/api/resources/user_endpoints.py Added 2

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37

38 return str(e), 400

39

40 return user_schema.dump(new_user), 200

41

42 class UserEndpoint(Resource):

43 @login_required

44 def get(self, user_id):

45 """Return a specific user entry."""

46

47 user = User.objects.get_or_404(public_id=user_id)

48 return user_schema.dump(user)

49

50 @api.expect(update_user_fields)

51 @admin_required

52 def put(self, user_id):

53 """Update a user entry."""

54

55 user_data, error = user_schema.load(api.payload['data'])

56

57 user = User.objects.get_or_404(public_id=user_id)

58 user.update(updated_at=datetime.utcnow, **user_data)

59

60 return user_schema.dump(user)

61

62 @admin_required

63 def delete(self, user_id):

Kerry

Multi-thread safety should be considered when doing delete operations

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64 """Delete a specific user entry."""

65

66 user = User.objects.get_or_404(public_id=user_id)

67 return user.delete()

13. t3-discovery-tool/api/resources/user-endpoints.py

[Defect] line 12: The class name UsersEndpoint may be confused with user-Endpoint, better to change to another name.

[Suggestion] Rename the class name to something more distinct

14. t3-discovery-tool/api/resources/user-endpoints.py

[Defect] line 63: Multi-thread safety should be considered when doing delete operations.

[Suggestion] Implement a locking mechanism for multiple-user scenario

15. Files structure

[Defects] Need more clear file structure. There are many separated files in the backend baseline, and it is difficult for other developer to understand these codes at first.

[Suggestion] we can divide the whole backend part into three file folders such as model part, view part, and controller part. In this way, users or other developer could understand the function of code part easily