CSC309 Endpoint Documentation

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Note that all endpoints must be preceded by 'api' (eg. if the endpoint is /auth/signup, the full path is http://localhost:3000/api/auth/signup)

Note that on the git commits, "linux" is a linux VM that Kevin installed, so commits from "linux" are from Kevin.

The startup.sh script will create an admin user:

username: admin

password: admin

PLEASE run the <u>startup.sh</u> script as <u>root</u>. Otherwise, it will not set things up.

IF this fails, please use the signup/login/makeadmin endpoints to make an admin manually.

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Notes on Design Decisions

Note that content — posts, comments and replies — are stored in one table in the DB, with separate tables containing metadata pertaining to each content type. These pieces of content can be referenced with their contentID, for the purposes of voting, reporting and hiding the content. This will be different than postID, commentID etc, which some endpoints use, so it's important to make that distinction.

Many of these endpoints require Bearer Token Authentication, and some endpoints require the user to be an admin to authenticate.

Login and Authorization (Kevin)

POST: /auth/signup

Allows users to signup for a new (non-admin) account.

Request Body (JSON)

| Name | Data Type | Description |
|-----------|------------------|---|
| username | string | Username of the user to create. Must be unique |
| password | string | Password of the user to create |
| firstName | string | First name |
| lastName | string | Last Name |
| email | string | Email, must be valid email address, must be unique |
| phone | string(optional) | Phone number, must be 10 digits in a row, no spaces |

Response Body (JSON)

| Name | Data Type | Description |
|---------|-----------|--|
| message | string | Message from the server, for successful requests |
| error | string | Error message from the server, for failed requests |

Sample Request Body(JSON)

```
"username": "user1",
   "password": "abc",
   "firstName": "Kevin",
   "lastName": "Wang",
   "email": "kevin@gmail.com",
   "phone": "1234567890"
}
```

Sample Response Body (JSON)

```
{
   "message": "Could not create user"
}
```

POST: /auth/login

Allows users to login with username/password, returning access and refresh tokens for Token Auth.

Request Body (JSON)

| Name | Data Type | Description |
|----------|-----------|--------------------------------|
| username | string | Username of the user to create |
| password | string | Password of the user to create |

Response Body (JSON)

| Name | Data Type | Description |
|--------------|-----------|--|
| accessToken | string | Access token |
| refreshToken | string | Refresh token |
| error | string | Error message from the server, for failed requests |

Sample Request Body(JSON)

```
{
    "username": "user1",
    "password": "abc"
}
```

Sample Response Body (JSON)

```
{
    "accessToken": "thisisnotarealtoken",
    "refreshToken": "thisisnotarealtoken"
}
```

POST: /auth/refresh

Refreshes the access token, given the refresh token for Token Auth

Request Body (JSON)

| Name | Data Type | Description |
|--------------|-----------|---------------|
| refreshToken | string | Refresh token |

Response Body (JSON)

| Name | Data Type | Description |
|-------------|-----------|--|
| accessToken | string | New access token |
| error | string | Error message from the server, for failed requests |

Sample Request Body(JSON)

```
{
    "refreshToken": "notarealrefreshtoken"
}
```

Sample Response Body (JSON)

```
{
    "accessToken": "notarealaccesstoken"
}
```

POST: /api/auth/addphoto

Adds a profile photo to a given account

Request Body (JSON)

Add a photo in the formData. Bearer authorization is required.

Response Body (JSON)

| Name | Data Type | Description |
|---------|-----------|--|
| message | string | Message from the server, for successful requests |
| error | string | Error message from the server, for failed requests |

Sample Request Body(JSON)

Upload photo

Sample Response Body (JSON)

```
{
    "message": "Success"
}
```

PUT: /auth/makeadmin

Attempts to make a user into an admin. Bearer authentication is required, plus a password for authorization in the request body.

Normally, we should be setting admin privileges in the server through the database, and it doesn't make sense to expose an API endpoint that would do that. However, for the purposes of testing this project, we made a convenient endpoint for this purpose.

Request Body (JSON)

| Name | Data Type | Description |
|---------|-----------|-------------|
| Ivaille | Data Type | Description |

| password string | The magic word for privilege escalation |
|-----------------|---|
|-----------------|---|

Response Body (JSON)

| Name | Data Type | Description |
|---------|-----------|--|
| message | string | Message from the server, for successful requests |
| error | string | Error message from the server, for failed requests |

Sample Request Body(JSON)

```
{
    "password": "admin"
}
```

Sample Response Body (JSON)

```
{
    "message": "Success"
}
```

Code Templates (Emily)

PUT: /template/save/[templateID]

This API endpoint allows authenticated users to update an existing code template by providing a template ID and optional fields (code, title, explanation, tags) to modify. Only the owner of the code template can perform the update.

Query Parameters

| Name | Туре | Description |
|------|------|-------------|
|------|------|-------------|

| templateID number (Required) | The unique ID of the code template to be updated. |
|------------------------------|---|
|------------------------------|---|

Request Body (JSON)

| Name | Туре | Description |
|-------------|-------------------------------|--|
| code | string (Optional) | The updated source code of the template |
| title | string (Optional) | The updated title of the template |
| explanation | string (Optional) | The updated explanation or description for the template |
| language | string (Optional) | The updated language of the template. |
| tags | array of string (Optional) | A list of tags to associate with the template. The old tags will be cleared and replaced with the new tags. Tags not found will be created |

Example of request body:

```
"code": "function example() { return 'Hello World'; }",
  "title": "Updated Example",
  "explanation": "This template prints 'Hello World'.",
  "language": "Javascript",
  "tags": ["javascript", "example"]
}
```

Response (JSON)

- 200 Success: Returns the updated code template object.
- 400 Bad Request: If templateID is missing from the request.
- **401 Unauthorized**: If the user is not logged in or the JWT is invalid.
- 403 Forbidden: If the user is not the owner of the code template.
- 404 Not Found: If the specified code template does not exist.

- 405 Method Not Allowed: If a method other than PUT is used.
- 500 Internal Server Error: If an error occurs during the update process.

POST: /template/save

This API endpoint allows logged-in users to create a new code template, either from scratch or by forking an existing template. The new template is associated with the logged-in user. If a forkID is provided, the template is a fork of an existing template.

Request Body (JSON)

| Name | Туре | Description |
|-------------|----------------------------|---|
| code | string | The source code of the new template. Required if not forking from an existing template. |
| title | string | The title of the new template. Required if not forking from an existing template. |
| explanation | string (Optional) | A description or explanation for the code template. |
| language | string (Optional) | The updated language of the template. Mandatory if creating, optional if forking. |
| tags | array of string (Optional) | A list of tags to associate with the template. Tags not found will be created. |
| forkID | number (Optional) | The ID of an existing template to fork. If provided, the new template will copy the code, title, and explanation from the forked template, but tags will not be copied. |

Example request body:

```
// creating a new template
{
   "code": "function example() { return 'Hello World'; }",
   "title": "Example Template",
```

```
"explanation": "This template prints 'Hello World'.",
  "language": "Javascript",
  "tags": ["javascript", "example"]
}
// forking a template
{
  "forkID": 1
}
```

Response (JSON)

- 201 Created: Returns the newly created code template object.
- 400 Bad Request: If required fields (like code and title) are missing when creating from scratch, or if the forkID is invalid.
- 401 Unauthorized: If the user is not logged in or the JWT is invalid.
- **403 Forbidden**: If the user is not the owner of the template when attempting to fork.
- 404 Not Found: If the template to be forked does not exist.
- 405 Method Not Allowed: If a method other than POST is used.
- **500 Internal Server Error**: If an error occurs during the creation or forking of the template.

GET: /template/search/[templateID]

This API endpoint allows users to retrieve a code template by its unique ID. The request must specify the template ID in the query parameters. The endpoint returns the full details of the code template if found.

Query Parameters

| Name Type |
|-----------|
|-----------|

| templateID number (Required) | The unique ID of the code template to be retrieved. |
|------------------------------|---|
|------------------------------|---|

Example request:

```
GET .../api/template/search/1
```

Response (JSON)

- 200 Success: Returns the code template object associated with the given ID, with the following fields:
 - id: The template's unique identifier.
 - code: The source code of the template.
 - title: The title of the template.
 - explanation: The description or explanation for the template.
 - author: The author's username.
 - tags: An array of string tags associated with the template.

Example success response:

```
"id": 1,
"code": "function example() { return 'Hello World'; }",
"title": "Example Template",
"explanation": "This template prints 'Hello World'.",
"author": "john_doe",
"tags": ["javascript", "example"]
}
```

- 400 Bad Request: If the id is missing from the request.
- 404 Not Found: If the specified code template does not exist.
- 405 Method Not Allowed: If a method other than GET is used.

• 500 Internal Server Error: If an error occurs while fetching the template.

GET: /template/search

This API endpoint allows users to search for code templates based on various criteria, such as title, explanation, tags, or user ID. The results include the code template details, associated tags, and the author.

Query Parameters

| Name | Туре | Description |
|---------------------|-------------------------------|--|
| titleContains | string (Optional) | Filters templates where the title contains the specified string. The search is case-insensitive. |
| explanationContains | string (Optional) | Filters templates where the explanation contains the specified string. The search is case-insensitive. |
| tags | array of string (Optional) | Filters templates that are associated with all the specified tags. |
| userID | number (Optional) | Filters templates that are created by the specified user (author). |
| pageNumber | number (Optional) | Specifies the page of results to retrieve. Starts at 1 for the first page. |
| pageSize | number (Optional) | Defines the number of items to return per page. |

Example request:

GET .../api/template/search?titleContains=example&tags=javascrip

Response (JSON)

- Success 200: Returns a list of code templates that match the provided filters. Each template object includes:
 - id: The template's unique identifier.

- code: The source code of the template.
- title: The title of the template.
- explanation: The description or explanation for the template.
- author: The author's **username**.
- tags: An array of string tags associated with the template.

Example success response:

```
{
        "id": 1,
        "code": "function example() { return 'Hello World'; ]
        "title": "Example Template",
        "explanation": "This template prints 'Hello World'."
        "language": "Javascript",
        "authorID": 1,
        "forkID": null,
        "tags": [
            "example"
        ٦,
        "author": {
            "username": "user1"
        }
    }
]
```

- 400 Bad Request: If the query parameters are invalid.
- 405 Method Not Allowed: If a method other than GET is used.
- 500 Internal Server Error: If an error occurs during the search process.

Code Execution (Emily)

POST: /code/execute

This API endpoint allows users to submit code in various programming languages for compilation and execution on the server. Supported languages include C, C++, Java, Python, and JavaScript. The endpoint handles compilation or interpretation, executes the code, and returns the resulting output (stdout) or errors (stderr).

Request Body (JSON)

| Name | Туре | Description |
|----------|-------------------|---|
| code | string (Required) | The source code in the specified language to be compiled and executed. |
| language | string (Required) | Specifies the programming language of the provided code. Valid options: 'c', 'cpp', 'java', 'python', 'javascript'. |
| stdin | string (Optional) | Input data to be provided to the program during execution. |

Example request body:

```
{
  "code": "#include <stdio.h>\nint main() { printf(\"Hello, Worl
  "language": "c",
  "stdin": ""
}
```

Response (JSON)

• 200 Success: Returns the result of the executed code.

Response Body:

| Field | Туре | Description |
|--------|--------|---|
| return | number | The return code of the execution. A value of 0 indicates success. |

| stdout | string | The output from the program execution (standard output). |
|--------|--------|---|
| stderr | string | Any error messages generated during the compilation or execution of the program (standard error). |

Example success response:

```
{
  "return": 0,
  "stdout": "Hello, World!\n",
  "stderr": ""
}
```

- 400 Bad Request: If the input is invalid, such as missing code or unsupported language.
- **401 Unauthorized**: If the user is not authenticated (if required by the environment or system policy).
- **403 Forbidden**: If the user does not have permission to execute the given command (if permissions are enforced).
- 405 Method Not Allowed: If a method other than POST is used.
- **500 Internal Server Error**: If an error occurs during code compilation or execution. This may include a compilation error or runtime error within the program, with details provided in the stderr.

Posts (Benson + Kevin)

Our posts system treats posts, comments, and replies to those comments(replies) as pieces of **content**. All **content** can be voted on, reported or hidden. Each content type has specific additional fields(e.g. post has an additional title field)

POST: /post/search (Kevin)

Searches through all posts, returning paginated and filtered results

Request Body (JSON)

| Name | Data Type | Description |
|------------|---|--|
| title | string(Optional) | Text that should be contained in the post's title |
| content | string(Optional) | Text that should be contained in the post content |
| tags | list[string](Optional) | Tags that the post should contain |
| templates* | List[string or int](Optional) | Templates that we want the post to mention. Each item in the list represents a template ID. eg. [1, 2] or ["1", "2"] |
| fromUser | bool(Optional) | whether to only show posts from the authenticated user(if logged in) |
| showHidden | bool(Optional) | whether to show hidden posts(if logged in as admin) |
| pageNumber | int(Optional, default 1) | page number, for pagination |
| pageSize | int(Optional, default 10) | page size, for pagination |
| sortMode | string in [mostUpvoted, mostDownvoted, mostReported] (Optional, default creation time) | Sorting method |

^{*}NOTE FOR TEMPLATES: "mentioning" a template in a post will be done by using @<templateID> in the content text. We plan to add hyperlinks to these templates in the frontend, and do not specifically validate that these links will lead to an actual template(e.g. on the web, there can be broken hyperlinks.

Response Body (JSON)

| Name | Data Type | Description |
|-------|-----------|------------------------|
| error | string | Error message from the |

| Name | Data Type | Description |
|---------|---------------|--------------------------------------|
| | | server, for failed requests |
| content | list[PostDTO] | list of post data, if any were found |

PostDTO:

| Name | Data Type | Description |
|-----------|-----------------|---|
| contentID | int | id of the piece of content |
| title | string | title of the post |
| _count | {comments: int} | number of comments |
| content | ContentDTO | information about the content of the post |
| tags | list[TagDTO] | information about the tags |

ContentDTO

| Name | Data Type | Description | |
|--------------|---|---|--|
| text | string | text of the content | |
| creationTime | datetime | creation time | |
| author | {username: string, id: int} | Data about the author | |
| _count | {upvotes: int, downvotes: int, reports?: int} | number of upvotes/downvotes, and reports if the searching user is an admin | |

TagDTO

| Name | Data Type | Description |
|------|----------------|-----------------|
| tag | {name: string} | name of the tag |

Sample Request Body(JSON)

```
{
    "title": "",
    "content": "",
```

```
"tags": ["tag1", "tag2"],
  "templates": [],
  "fromUser": false,
  "showHidden": true,
  "pageNumber": 1,
  "pageSize": 5,
  "sortMode": "mostUpvoted"
}
```

Sample Response Body (JSON)

```
[
    {
        "contentID": 1,
        "title": "How to create a C program",
        "content": {
            "text": "Just do it !",
            "creationTime": "2024-10-19T22:30:53.533Z",
            "author": {
                "username": "user1",
                "id": 1
            },
            "_count": {
                "upvotes": 1,
                "downvotes": 0,
                "reports": 0
            }
        },
        "tags": [
            {
                "tag": {
                    "name": "tag1"
                }
            },
        ],
```

```
"_count": {
        "comments": 2
    }
}
```

GET: /post/search/[postID] (Benson)

This API endpoint allows users to retrieve a post by its unique postID. The request must specify the post ID in the query parameters. The endpoint returns the full details of the post if found. The posts, comments, and replies associated with it will be hidden if they are set to isHidden and the user cannot access them.

Query Parameters

| Name | Туре | Description |
|--------|-------------------|--|
| postID | number (Required) | The unique ID of the post to be retrieved. Note that this is not the contentID, which is used in other endpoints |

Example request:

```
GET .../api/post/search/1
```

Response (JSON)

• 200 Success: Returns the post object associated with the given ID.

| Name | Data Type | Description |
|---------|---------------|--|
| error | string | Error message from the server, for failed requests |
| content | list[PostDTO] | list of post data, if any were found |

PostDTO:

| Name | Data Type | Description |
|-----------|-------------------|---|
| contentID | int | id of the piece of content |
| title | string | title of the post |
| _count | {comments: int} | number of comments |
| content | ContentDTO | information about the content of the post |
| tags | list[TagDTO] | information about the tags |
| comments | list[CommentsDTO] | Information about the comments |

ContentDTO

| Name | Data Type | Description |
|--------------|---|---|
| text | string | text of the content |
| creationTime | datetime | creation time |
| author | {username: string, id: int} | Data about the author |
| _count | {upvotes: int, downvotes: int, reports?: int} | number of upvotes/downvotes, and reports if the searching user is an admin |

TagDTO

| Name | Data Type | Description |
|------|----------------|-----------------|
| tag | {name: string} | name of the tag |

CommentsDTO

| Name | Data Type | Description |
|-----------|------------|--|
| id | int | id of the comments |
| contentID | int | id of the content |
| postID | int | id of the post/reply this comment belongs to |
| content | ContentDTO | information about the content of the comment |

ReplyDTO

| Name | Data Type | Description |
|-----------|------------|--|
| id | int | id of the reply |
| contentID | int | id of the content |
| commentID | int | id of the comment this reply belongs to |
| content | ContentDTO | information about the content of the comment |

```
"contentID": 1,
"title": "User 2 post 1",
"content": {
    "text": "post 1 @1 @4",
    "creationTime": "2024-10-22T04:00:52.996Z",
    "author": {
        "username": "user1",
        "id": 1
    },
    "_count": {
        "upvotes": 0,
        "downvotes": 0
},
"tags": [
   {
        "tag": {
            "name": "tag1"
    },
        "tag": {
           "name": "tag3"
        }
```

```
],
"_count": {
    "comments": 1
},
"comments": [
    {
        "id": 4,
        "contentID": 7,
        "postID": 1,
        "content": {
            "text": "User 3 comment 4!",
            "author": {
                 "username": "user3"
            "creationTime": "2024-10-22T17:59:17.689Z",
            "isHidden": true
        },
        "replies": []
```

- 400 Bad Request: If the id is missing from the request.
- 404 Not Found: If the specified post does not exist or is hidden without admin access.
- 405 Method Not Allowed: If a method other than GET is used.
- 500 Internal Server Error: If an error occurs while fetching the post.

PUT: /post/save/[contentID] (Benson)

Updating the post with contentid [contentID]. Bearer authentication is required

Request Body (JSON)

| Name | Туре | Description |
|-------------|-------------------------|---|
| title | string (Optional) | The title of the post |
| description | string (Optional) | The post description or content. |
| tags | list[string] (Optional) | A list of tags that are related to the post |

Sample Request Body (JSON)

```
"title": "How to create a C program",
  "description": "Just do it !",
  "tags": ["C", "App"]
}
```

Response (JSON)

• 200 Success: Returns the result of the executed code.

Response Body:

| Name | Туре | Description |
|-----------|--------|---------------------------|
| id | number | The id of the post |
| contentID | number | The contentID of the post |
| title | string | The title of the post |

Example Success Response

```
"id": 1,
  "contentID": 1,
  "title": "How to create a C program"
}
```

• 400 Bad Request: If the input is invalid, such as title, description, and postID missing.

- **401 Unauthorized:** If the user is not authenticated (if required by the environment or system policy).
- **403 Forbidden:** If the user does not have permission to execute the given command (if permissions are enforced).
- 405 Method Not Allowed: If a method other than PUT is used.
- 500 Internal Server Error: If an error occurs while saving the post.

POST: /post/save (Benson)

Save a new post. Bearer authentication is required

Request Body (JSON)

| Name | Туре | Description |
|-------------|----------------------------|---|
| title | string (Required) | The title of the post |
| description | string (Required) | The post description or content. |
| tags | list[string] (Optional) | A list of tags that are related to the post |

Sample Request Body

```
"title": "How to create an Web App",
  "description": "You start by initializing a NextJS app",
  "tags": ["Test", "NextJS"]
}
```

Response (JSON)

• 200 Success: Returns the result of the executed code.

Response Body:

| Name | Туре | Description |
|------|--------|--------------------|
| id | number | The id of the post |

| contentID | number | The contentID of the post |
|-----------|--------|---------------------------|
| title | string | The title of the post |

Example Success Response

```
"id": 6,
  "contentID": 9,
  "title": "How to create an Web App"
}
```

- 400 Bad Request: If the input is invalid, such as title or description missing.
- **401 Unauthorized**: If the user is not authenticated (if required by the environment or system policy).
- **403 Forbidden**: If the user does not have permission to execute the given command (if permissions are enforced).
- 405 Method Not Allowed: If a method other than PUT is used.
- 500 Internal Server Error: If an error occurs while saving the post

POST: /post/comment/create/[contentID] (Benson)

Creating the comment for the parent (post or comment) with contentid [contentID]. Bearer authentication is required

Request Body (JSON)

| Name | Туре | Description |
|---------|-------------------|----------------------------|
| content | string (Required) | The content of the comment |

Sample Request Body (JSON)

```
{
    "content": "This reply is awesome!"
}
```

Response (JSON)

• 200 **Success**: Returns the result of the executed code.

Response Body:

| Name | Туре | Description |
|----------------------|---------|---|
| id | number | The id of the post |
| contentID | number | The contentID of the post |
| postID | number | The id of the post |
| content.id | number | The contentID of the comment |
| content.text | string | The content of the comment |
| content.authorID | number | The user ID of the comment author |
| content.creationTime | string | The creation timestamp of the comment |
| content.isHidden | boolean | The boolean of whether a content is hidden or not |

Example Success Response

```
"id": 2,
   "contentID": 10,
   "postID": 1,
   "content": {
        "id": 10,
        "text": "This reply is awesome!",
        "authorID": 1,
        "creationTime": "2024-10-20T02:45:15.213Z",
        "isHidden": false
}
```

- 400 Bad Request: If the input is invalid, such as content missing.
- **401 Unauthorized**: If the user is not authenticated (if required by the environment or system policy).

- **403 Forbidden:** If the user does not have permission to execute the given command (if permissions are enforced).
- 405 Method Not Allowed: If a method other than POST is used.
- 500 Internal Server Error: If an error occurs while creating the comment.

POST: /post/vote/[contentID] (Benson)

Vote on content with contentID. Note that this can be a post, comment or reply. Bearer authentication is required.

Note that each user can only vote each piece of content once

Request Body (JSON)

| Name | Туре | Description |
|-------|--------|---|
| state | number | The state of the vote (1 for upvote, -1 for downvote) |

Sample Request Body

```
{
    "state": 1
}
```

Response (JSON)

• 200 Success: Returns the result of the executed code.

Response Body:

| Name | Туре | Description |
|---------------|--------|--|
| id | number | The id of the post |
| userID | number | The id of the user |
| contentID | number | The contentID of the content (Post, comment, or reply) |
| upvote.id | number | The id of the vote |
| upvote.userID | number | The id of the user |

| upvote.contentID | number | The contentID of the voted content |
|------------------|--------|------------------------------------|
|------------------|--------|------------------------------------|

Example Success Response

```
"id": 1,
   "userID": 1,
   "contentID": 1,
   "upvote": {
       "id": 1,
       "userID": 1,
       "contentID": 1
}
```

- 400 Bad Request: If the input is invalid, such as state missing.
- **401 Unauthorized**: If the user is not authenticated (if required by the environment or system policy).
- **403 Forbidden**: If the user does not have permission to execute the given command (if permissions are enforced).
- 405 Method Not Allowed: If a method other than POST or PUT is used.
- 500 Internal Server Error: If an error occurs while creating a vote.

POST: /post/report/[contentID]

Report a piece of content with id [contentID]. Note that this can reference a post, comment or reply to a comment. Bearer authorization is required. Note that users cannot un-report a piece of content.

Request Body (JSON)

| Name | Data Type | Description |
|--------|------------------|-----------------------|
| reason | string(optional) | Reason for the report |

Response Body (JSON)

| Name | Data Type | Description |
|---------|-----------|--|
| message | string | Message from the server, for successful requests |
| error | string | Error message from the server, for failed requests |

Sample Request Body(JSON)

```
{
    "reason": "This post has explicit content."
}
```

Sample Response Body (JSON)

```
{
    "message": "Successfully reported the post"
}
```

POST: /post/hide/[contentID]

Hide a piece of content with id [contentID]. Note that this can reference a post, comment or reply. Bearer authentication on an admin account is required.

Request Body (JSON)

| Name | Data Type | Description |
|------|-------------------|---|
| hide | boolean(optional) | true to hide the post, false to show the post. Defaults to true |

Response Body (JSON)

| Name | Data Type | Description |
|---------|-----------|--|
| message | string | Message from the server, for successful requests |

| error string | Error message from the server, for failed requests |
|--------------|--|
|--------------|--|

Sample Request Body(JSON)

```
{
    "hide": true
}
```

Sample Response Body (JSON)

```
{
    "message": "Successfully hid the post"
}
```