Django Banking App Endpoints

Endpoint: /accounts/register/
Methods: GET, POST

Fields/payload: username, password1, password2, email, first_name, last_name

Success URL: /accounts/login/

Validation errors:

- o The two password fields didn't match
- A user with that username already exists
- o This password is too short. It must contain at least 8 characters
- o Enter a valid email address
- Username, password, and repeat password are required. If empty, the following error is given above the problematic field(s): This field is required

Notes:

All fields can be at most 100 characters long.

Endpoint: /accounts/login/
Methods: GET, POST

Fields/payload: username, password Success URL: /accounts/profile/view/

Invalid inputs:

Username or password is invalid

Notes: If the credentials are valid, Django's session authentication is used to log the user in.

Endpoint: /accounts/logout/

Methods: GET

Description: Log the user's session out of Django. If the user is unauthenticated, simply ignore the request. In either case, return a redirect to /accounts/login/

Endpoint: /accounts/profile/view/

Methods: GET

Fields: id, username, email, first_name, last_name

Description: Return a JSON response with the above fields, disclosing data of the

logged-in user

Example response:

```
{"id": 1, "username": "Demon", "email": "demon@gmail.com", "first_name": "", "last_name": ""}
```

Additional notes:

• If the request is unauthenticated (user is not logged in), HTTP 401 UNAUTHORIZED is return.

Endpoint: /accounts/profile/edit/

Methods: GET, POST

Fields/payload: first_name, last_name, email, password1, password2

Success URL: /accounts/profile/view/

Validation errors:

- The two password fields didn't match
- o This password is too short. It must contain at least 8 characters
- Enter a valid email address

Additional notes:

- At GET requests, the form (except for the password fields) are pre-filled with the current logged in user's values.
- At the POST requests, no field is required. If any field is empty or missing, the corresponding value is updated to empty, with the only exception of passwords. If password1 and password2 are empty, it means that the user did not want to change its password; so, no changes will be made to the user's password.
- The redirect shows the user's updated info.
- If the request is unauthenticated (user is not logged in), HTTP 401 UNAUTHORIZED is return.

Endpoint: /banks/add/
Methods: GET, POST

Fields/payload: name, description, inst_num, swift_code

Success URL: /banks/<bank_id>/details/

Validation errors:

o If a field's input has more than 100 characters, the following error is placed above the field: Ensure this value has at most 100 characters (it has <X>), where <X> is the current input's length.

 All fields are mandatory and cannot be left blank. If so, the following error us shown above the problematic field(s): This field is required

Additional notes:

- o The owner of the new bank is the current logged-in user.
- bank_id is the ID of the newly-created bank.
- If the request is unauthenticated (user is not logged in), HTTP 401 UNAUTHORIZED is return.

Endpoint: /banks/<bank_id>/branches/add/

Methods: GET, POST

Fields/payload: name, transit_num, address, email, capacity

Success URL: /banks/branch/<branch_id>/details/

Validation errors:

- This field is required (for all fields except for capacity)
- If a field's input has more than 100 characters, the following error is placed above the field: Ensure this value has at most 100 characters (it has <X>), where <X> is the current input's length. This applies to all fields except for email and capacity.
- If capacity is negative, Ensure this value is greater than or equal to 0 is placed above it.
- Enter a valid email address

Additional notes:

- If the request is unauthenticated (user is not logged in), HTTP 401 UNAUTHORIZED is return.
- The form prefills the email input with the default value. The user is able to edit it
- The bank to which the new branch belongs to is bank_id. If no bank exists with such ID, both GET and POST return 404 NOT FOUND.

- The user must be the **owner** of the corresponding bank; otherwise, a 403 FORBIDDEN is returned (both GET and POST). In other words, users are not able to add a branch to someone else's bank.
- The branch_id in the success URL is the ID of the newly-created branch.

Endpoint: /banks/all/
Methods: GET

Description: An HTML response is returned that lists all banks. The page displays the **name** and **institution number** of each bank in an unordered list, where each name links to the details page of the corresponding bank.

Example Response:

• TD Institution Number: 1

• BMO Institution Number: 2

• RBC Institution Number: 3

Endpoint: /banks/<bank_id>/details/

Methods: GET

Description: An HTML response is returned that contains the information of a specific bank (or a 404 NOT FOUND if it does not exist) and some info about its branches. The bank information shown is the bank **name**, **description**, **swift code**, **institution number**, and its **branches**. The branch information is displayed in a table, where each row contains a branch's **name**, **transit number**, and **address**. If the bank does not have any branches, No branch found is returned in the branches table.

Example response:

BMO

Bank of montreal

Swift code: BOFMCAM2 Inst number: 001

Branches:

name transit number address

King & University 24182 980 University Ave Yonge & Queen 24872 29 Queen St W **Endpoint:** /banks/branch/

/branch_id>/details/

Methods: GET

Description: A JSON response that returns the detailed info of a branch (or a 404 NOT

FOUND if it does not exist).

Fields: id, name, transit_num, address, email, capacity, last_modified

Example response:

```
 \\ \{"id": 1, "name": "jkl", "transit\_num": "12", "address": "jlk", "email": "admin@utoronto.ca", "capacity": 12, "last\_modified": "2022-01-08T22:30:40.419Z"\} \\
```

Additional notes:

• If the request is unauthenticated (user is not logged in), HTTP 401 UNAUTHORIZED is return.

Endpoint: /banks/branch/<branch_id>/edit/

Methods: GET, POST

Fields/payload: name, transit_num, address, email, capacity

Success URL: /banks/branch/<branch_id>/details/

Validation errors:

- o This field is required (for all fields except for capacity)
- o If a field's input has more than 100 characters, the following error is displayed above the field: Ensure this value has at most 100 characters (it has <X>), where <X> is the current input's length. This applies to all fields except for email and capacity.
- o If capacity is negative, Ensure this value is greater than or equal to 0 is displayed above it.
- Enter a valid email address

Additional notes:

- If the request is unauthenticated (user is not logged in), HTTP 401 UNAUTHORIZED is return.
- The form is pre-filled with the current values of the branch instance.
- The branch's bank is not changeable; thus, it is not part of the form.
- The user must be the owner of the corresponding bank; otherwise, a 403 FORBIDDEN response is returned (both GET and POST). In other words, users must not be able to modify someone else's branches