HDip. In Computer Science (Online) Module: ICT Skills 2

Assessment.

Assessment

- Lab work.
 - 1 submission.
 - End of term. (July 17th).
 - **-40** %
- Assignment/Project.
 - Submit mid-August. (August 23rd).
 - **-60**%

Lab work

- GitHub repository of your Movies Fan app.
- Git log history; must correspond to prescribed commits.
- Submit a text file with repo URL to Moodle
 - Upload link provided later.

Assignment

- Requirement: Choose one of the following:
 - 1. Extend the Movies fan app from the labs.
 - Use different GitHub repo from lab work.
 - 2. Design and develop a custom React app for the POI API or another open API.
 - Must use create-react-app and Storybook.
- Deliverables:
 - GitHub repository.
 - README very important; must use template provided.
 - Git history very important.
 - Demonstration (short video).

Option 1 startup.

Steps:

- Delete node_modules folder of moviesApp.
- 2. Make a copy of the moviesApp folder (assignment folder)
- 3. Reinstall modules in moviesApp, if required.

With assignment folder:

- 1. Import into VS Code.
- **2.** From integrated terminal, type: git remote remove origin
- 3. In GitHub, create a new repository.
- 4. From integrated terminal, type: git remote add origin <new-repo-url> npm install
- 5. Commence development.

- Grade band: Good (40-55%)
- Theme: Foundation skill-set.
- Characteristics: New user features similar to existing.
- Features (All of the following):
 - UI:
 - Lists (Actors, Similar movies, Actor's movies, TV series).
 - Detail (Actor Bio, TV series).
 - Extensive hyperlinking.
 - Routing: Mix of static and parameterized URLs.
 - Data model: New entity type(s); ~3 (new) API endpoints.

- Grade band: Very Good (55%-70%)
- Theme: Confident developer.
- Characteristics: Some original component and page designs.
- Features (All of the following):
 - UI:
 - Extended filtering; Sorting.
 - My Fantasy movie(s). **
 - Routing: Basic authentication (public & protected views and features).
 - Data model: Full caching.
 - Storybook support.

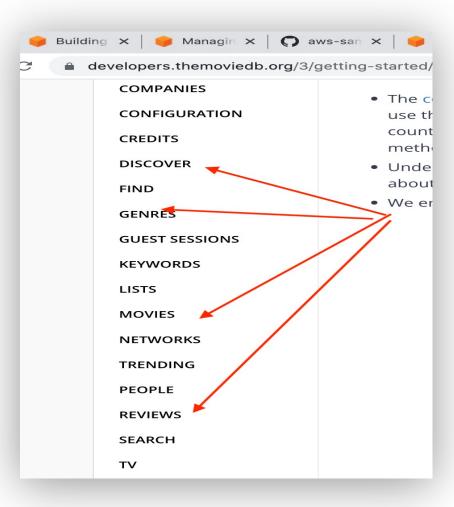
- Grade band: Excellent (70%-85%)
- Theme: Independent learning.
- Characteristics: Independently researched and applied technologies/techniques not covered in the lectures.
- Features:
 - UI: Pagination (with caching); Playlists (multiple), Movie Search.
 - Routing: Robust authentication, e.g. Firebase.
 - 3rd party components.

- Grade band: Outstanding (85+%)
- Theme: Full-stack.
- Features:
 - Server-side Persistence.
 - TMDB lists, Firebase, or other.

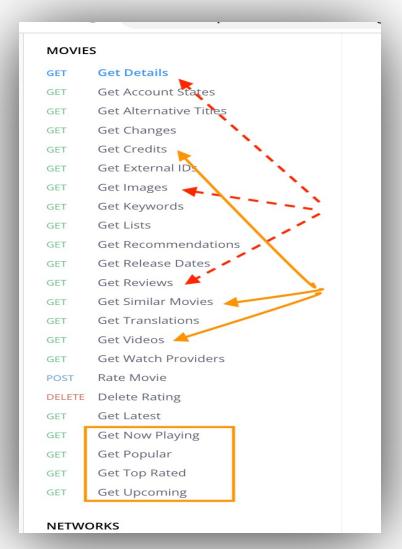
TMDB endpoints

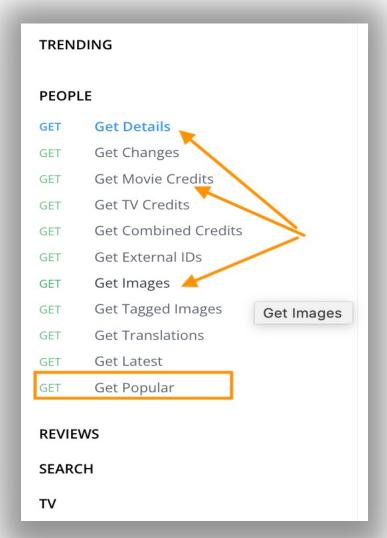
Browse the docs at:

https://developers.themoviedb.org/3/getting-started/introduction



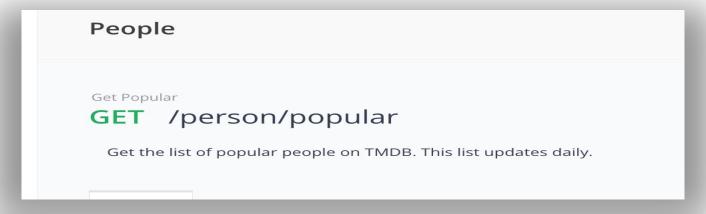
TMDB endpoints

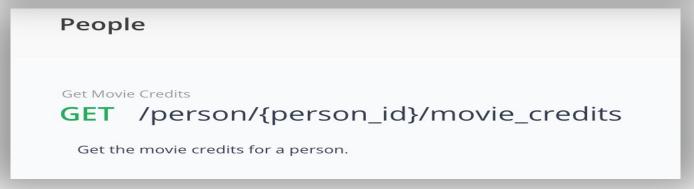




TMDB endpoints

• The docs detail how to request the related data.





Endpoint responses

- Understand the structure of an endpoint response.
- Use Postman or an equivalent too.l.



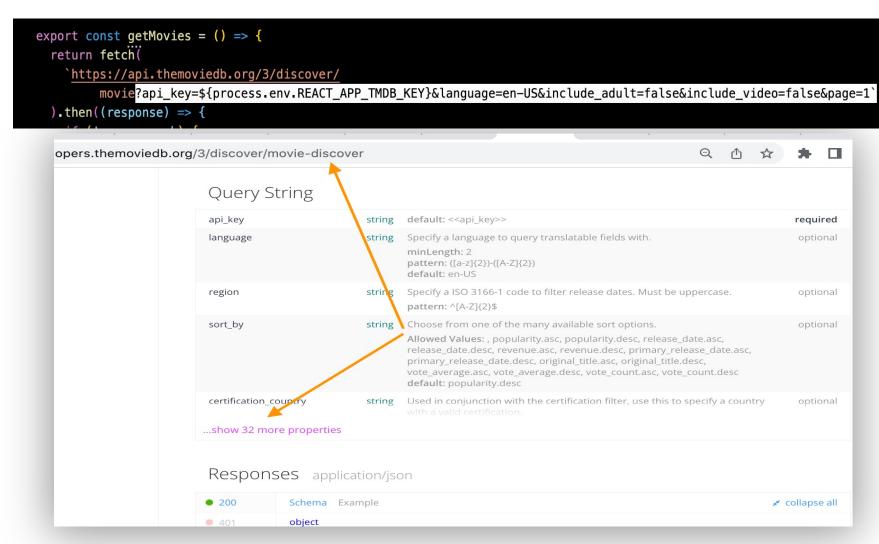
Endpoint responses

Format the JSON response to get a clear understanding of its structure

```
Bookmarks
                                                  Profiles
Chrome
                    View
                            History
                                                                  Window
                                                                            Help
          New Tab
                                       X
       Building i Managi aws-sa i Operati My Las e e
                                                                        🔳 Assign: 🗖 The Mc 🚱 https://
                                                                                                           React /
         isonformatter.curiousconcept.com/#
         JSON FORMATTER & VALIDATOR
                                                                             About Learn Bookmarklet FAQ
                                                                                                             Changelog
                   Formatted JSON Data
                    { 🖃
                       "page":1,
                       "results": [ =
                          { □
                             "adult":false,
                            "gender":1,
                            "id":224513,
                            "known_for":[ ],
                            "known_for_department": "Acting",
                            "name": "Ana de Armas",
                             "popularity":168.121,
                            "profile_path": "/14uxt0jH28J9zn4vNQNTae3Bmr7.jpg"
                            "adult":false
```

ABOUT

TMDB Movie Search support



Pagination.

```
export const getMovies = () => {
  return fetch(
    `https://api.themoviedb.org/3/discover/
    movie?api_key=${process.env.REACT_APP_TMDB_KEY}&language=en-US&include_adult=false&include_video=false&page=1`
).then((response) => {
  if (!response.ok) {
    throw new Error(response.json().message);
  }
  return response.json();
```

- Applies to any page that displays a <u>list</u> of things movies, actors.
- 3rd party UI components.
- Caching react-query support. See:
 - https://react-query.tanstack.com/guides/paginated-queries
 - https://react-query.tanstack.com/examples/pagination

KEYWORDS

LISTS

v4 or v3 lists?

GET Get Details

GET Check Item Status

POST Create List

POST Add Movie

POST Remove Movie

POST Clear List

DELETE Delete List

MOVIES

ACCOUNT

AUTHENTICATION

How do I generate a session id?

GET Create Request Token

POST Create Session

POST Create Session With Login

POST Create Session (from v4 access to...

Create Guest Session

DELETE Delete Session

CERTIFICATIONS

CHANCEC

TMDB Persistence support.

Authentication

How do I generate a session id?

As outlined in the getting started guide, the basics to getting a user authenticated look like this:

- 1. Create a new request token
- 2. Get the user to authorize the request token
- 3. Create a new session id with the athorized request token

Part 1 and 3 should be fairly easy to understand but I'll walk through each step to make sure it's clear.

Step 1: Create a request token

The first step as a developer is to request a new token. This is a temporary token that is required to ask the permission to access their account. This token will auto expire after 60 minutes if it's not used.