PURPOSE OF THE PROJECT

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**The purpose of the project** :

So my project called CinemaFlex is a website which is Netflix clone is an on- demand video streaming platform similar to Netflix. It helps you to start with your own video streaming platform then with Netflix clone you can get started within a few days. Netflix clone offers a complete white label solution for an original Netflix.

if you want to play movies, music or watch an episode of your

favorite TV show you can easily do it wherever you may be.

So if you want to play movies, music or watch an episode of your favorite TV show you can easily do it wherever you may be.

**Methodology :**

have built this project using the following tools & techniques:

●React.JS

●React Router

●React Forms

●React Hooks

●use State

●useContext

●useEffect

●useHistory

●useState

●Compound Components

●JSX

●CSS Modules

●Firebase

●VSCode

**I will built this project using the following tools & techniques:**

**Front-End :**

**●React.JS**

**●React Router**

**●React Forms**

**●React Hooks**

**●use State**

**●useEffect**

**●useHistory**

**●useState**

**● Components**

**●JSX**

**●CSS Modules**

**●Firebase**

**Back-End :**

**●Node.js** Node.js

**●Express.js**

**●MongoDB Connection** Models MongoDB Connection

**● Rest API Models**

**● Rest API Router**

**●React Firebase uploading File**

**So there is an example of conceptual diagrams that I will use to explain my Netflix clone app:**

**Architecture Diagram:**

* **This diagram provides an overview of the major components of my app and their interactions.**
* **It showcases the frontend user interface, backend server, database, and external APIs.**
* **Arrows indicate the flow of data and requests between the components.**

**+-------------------------+ +---------------------+**

**| Frontend | | Backend Server |**

**+-------------------------+ +---------------------+**

**| |**

**| API calls |**

**+----------------------------->|**

**| |**

**| Response with data |**

**|<-----------------------------+**

**|**

**| Data Storage |**

**+----------------------------->|**

**| |**

**| External APIs |**

**+----------------------------->|**

**Entity-Relationship Diagram (ERD):**

* + **This diagram illustrates the entities and their relationships within myr app's database schema.**
  + **Entities could include users, videos, playlists, and other relevant entities.**
  + **Relationships between entities are represented with lines and appropriate notations.**

**+-------------------------+ +-----------------------+**

**| User | | Vidéo |**

**+-------------------------+ +-----------------------+**

**| - userId | | - videoId |**

**| - name | | - title |**

**| - email | | - description |**

**| - password | | - duration |**

**Flowchart - User Registration Process:**

**This flowchart explains the step-by-step process of user registration in your app.**

**Each step is represented as a box, and arrows indicate the flow from one step to another.**

**+-------------------------+**

**| User Registration |**

**+-------------------------+**

**|**

**V**

**+-------------------------+**

**| Create Account |**

**+-------------------------+**

**|**

**V**

**+-------------------------+**

**| Verify Email |**

**+-------------------------+**

**|**

**V**

**+-------------------------+**

**| Set Preferences |**

**+-------------------------+**

**|**

**V**

**+-------------------------+**

**| Registration Done |**

**+-------------------------+**

Sequence Diagram - User Login Process:

* + This sequence diagram depicts the interactions between the frontend and backend during the user login process.
  + The sequence of actions is illustrated vertically, with arrows indicating the flow of messages.

+-------------------------+ +---------------------+

| Frontend | | Backend Server |

+-------------------------+ +---------------------+

| |

| Login Request |

+----------------------------->|

| Validate Credentials |

|<-----------------------------+

| Send Authentication Token |

+----------------------------->|

| User Authenticated |

|<-----------------------------+

| Provide User Data |

+----------------------------->|

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