Tarea 4 - LRU Reynaldo Cusi Ascencio

Implementar LRUCache moviedb rest api

Se completa la implementación del LRU con el uso de REST de la pagina https://www.themoviedb.org/settings/api

1. Registro de API



2. Análisis de datos de Webservice REST

```
{ □
   "page":1,
   "results":[ 🖃
      { 🖃
         "adult":false,
         "backdrop_path": "/gzppdxEJ6fofhtLzSVSUJZEVxvq.jpg",
          "genre_ids":[ 🖃
            28
            878.
            53
         "id":848278,
         "original_language": "en",
         "original_title": "Jurassic Hunt",
         "overview":"Female adventurer Parker joins a crew of male trophy hunters in a remote wilderness park. Their go
         "popularity":3499.182,
         "poster_path": "/bZnOioDq1ldaxKfUoj3DenHU7mp.jpg",
"release_date": "2021-09-01",
         "title": "Jurassic Hunt",
         "video":false,
         "vote_average":4.7,
         "vote_count":73
      },
```

3. Instalación de librerias C++

Para el trabajo se instalara CPPRESTSDK

```
|int main()
       int numPaginas = 1;
       std::setlocale(LC_ALL, "");
       for (int pag = 1; pag <= numPaginas; pag++) {
   auto client = http_client(U("https://api.themoviedb.org/3/discover/movie")); |
   client.request(methods::GET,</pre>
                   uri_builder()
                   .append_query(U("sort_by"), "popularity.desc")
.append_query(U("api_key"), "5384d159278dd45b506fcfee81ad5416")
                    .append_query(U("page"), std::to_wstring(pag))
                    .to_string()
                    .then([](http_response response) {
                        return response.extract_json();
                   })
                    .then([](json::value json) {
                          LRUCache my_cache(3);
                          std::string my_key;
                          std::string my_titulo; //titulo de la pelicula
                         std::string my_descripcion; //descripcion de la pelicula
                          for (auto& issue : json[L"results"].as_array()) {
    my_titulo = utility::conversions::to_utf8string(issue[L"title"].as_string());
                                my_ttulo = utility::conversions::to_utr8string(issue[L title ].as_string());
my_descripcion = utility::conversions::to_utf8string(issue[L"overview"].as_string());
my_key = issue[L"id"].as_integer();
std::cout << issue[L"id"].as_integer() << " | " << issue[L"popularity"].as_double() << " | " << my_titulo << std::endl;
my_cache.push(my_key, issue[L"popularity"].as_double(), my_titulo, my_descripcion);</pre>
                          std::cout << "CONTENIDO DE CACHE" << std::endl;
                          my_cache.print_content();
                   })
                    .wait();
       return 0:
```

4. Ejecucion y carga de Datos del REST C++

Para el trabajo se instalara CPPRESTSDK

Carga de Registros REST

```
Magnate 1 January 1 Januar
```

En caché se mantienen los últimos registros

```
AMTENIOD DE CACHE

937.555 | After NW Fell | Just as Tessa's life begins to become unglued, nothing is what she thought it would be. Not her friends nor her family. The only person that she should be able to rely on is Har overs the massive secret that she's been Keeping. Before Tessa makes the biggest decision of her life, everything changes because of revelations about her family.

1886.21 | F9 | Dominic Toretto and his crew battle the most skilled assassin and high-performance driver they've ever encountered: his forsaken brother.

1187.56 | Breathless | In the DR, hardened cop Manolo tries to take down an infamous drug cartel; meanwhile, his daughter has fallen in love with Lorenzo, a construction worker who's unwittingly get dealings.

1 1067.96 | Luca | Luca and his best friend Alberto experience an unforgettable summer on the Italian Riviera. But all the fun is threatened by a deeply-held secret: they are sea monsters from another worl is about to bring them together again a?] and inspire a new family business.

1 1038.91 | The Boss Baby: Family Business | The Templeton brothers à?" Tim and his Boss Baby little bro Ted à?" have become adults and drifted away from each other. But a new boss baby with a cutting-edge is about to bring them together again a?] and inspire a new family business.

1 1038.01 | The Boss Baby: Family Business | The Templeton brothers à?" Tim and his Boss Baby little bro Ted à?" have become adults and drifted away from each other. But a new boss baby with a cutting-edge is about to bring them together again a?] and inspire a new family business.

1 1038.01 | The Boss Baby: Family Business | The Templeton brothers à?" Tim and his pour brothers à?" Tim and his because and with the help of her fabulous Godmother, she perseveres to make them come true.

1 1074.05 | Space Jam: A New Legacy | Ment LeBron and his young son Dem are trapped in a digital space by a rogue A.I., LeBron must get them home safe by leading Bugs, Lola Bunny and the whole gang of note sets to victory over the A.I.'
```