Screenshot of smoketests running

```
(movieapp) (base) crc-dot1x-nat-10-239-62-175:movie-app callieliu$ python run.py
INFO:app:Application startup
 * Serving Flask app 'app'
 * Debug mode: on
INFO:werkzeug:WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
INFO:werkzeug:Press CTRL+C to quit
INFO:werkzeug: * Restarting with stat
INFO:app:Application startup
WARNING:werkzeug: * Debugger is active!
INFO:werkzeug: * Debugger PIN: 112-093-151
INFO:app.utils.logger:Health check
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:24] "GET /api/health HTTP/1.1" 200 -
INFO:app.utils.logger:New account created: testuser123
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:24] "POST /user/create-account HTTP/1.1" 201 -
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:24] "POST /user/login HTTP/1.1" 200 -
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:24] "POST /user/update-password HTTP/1.1" 200 -
INFO:app.utils.logger:{'Title': 'Inception', 'Year': '2010', 'Rated': 'PG-13', 'Released': '16 Jul 2010', 'Runtime': '148 min', 'Genre': 'Action, Adventure, Sci-Fi', 'Director': 'Christopher Nolan', 'Writer': 'Christopher Nolan', 'Actors': 'Leonardo DiCaprio, Joseph Gordon-Levitt, Elliot Page', 'Plot': "Dom Cobb is a skilled thief, the absolute best in the dangerous art of extraction, stealing valuable secrets from deep within the subconscious during the dream state, when the mind is at its most vulnerable. Cobb's rare ability has made him a coveted player in this treacherous new world of corporate espionage, but it has also made him an international fugitive and cost him everything he has ever loved. Now Cobb is being offered a chance at redemption. One last job could give him his life back but only if he can accomplish the impossible, inception. Instead of the perfect heist, Cobb and his team of specialists have to pull off the reverse: their task is not to steal an idea, but to plant one. If they succeed, it could be the perfect crime. But no amount of careful planning or expertise can prepare the team for the dangerous enemy that seems to predict their every move. An enemy that only Cobb could have seen coming.", 'Language': 'English, Japanese, French', 'Country': 'United States, United Kingdom', 'Awards': 'Won 4 Oscars. 159 wins & 220 nominations total', 'Poster': 'https://m.media-amazon.com/images/M/MV5BMjAxMzY3NjcxNF5BMl5BanBnXkFtZTcwNTI5OTM0Mw@@._V1_SX300.jpg',
```

'Ratings': [{'Source': 'Internet Movie Database', 'Value': '8.8/10'}, {'Source': 'Rotten Tomatoes', 'Value': '87%'}, {'Source': 'Metacritic', 'Value': '74/100'}], 'Metascore': '74', 'imdbRating': '8.8', 'imdbVotes': '2,615,361', 'imdbID': 'tt1375666', 'Type': 'movie', 'DVD': 'N/A', 'BoxOffice': '$292,587,330', 'Production': 'N/A', 'Website': 'N/A', 'Response': 'True'}
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:24] "GET /search/search-by-title?title=Inception&year=2010&plot=full HTTP/1.1" 200 -
INFO:app.utils.logger:{'Title': 'Inception', 'Year': '2010', 'Rated': 'PG-13', 'Released': '16 Jul 2010', 'Runtime': '148 min', 'Genre': 'Action, Adventure, Sci-Fi', 'Director': 'Christopher Nolan', 'Writer': 'Christopher Nolan', 'Actors': 'Leonardo DiCaprio, Joseph Gordon-Levitt, Elliot Page', 'Plot': 'A thief who steals corporate secrets through the use of dream-sharing technology is given the inverse task of planting an idea into the mind of a C.E.O., but his tragic past may doom the project and his team to disaster.', 'Language': 'English, Japanese, French', 'Country': 'United States, United Kingdom', 'Awards': 'Won 4 Oscars. 159 wins & 220 nominations total', 'Poster': 'https://m.media-amazon.com/images/M/MV5BMjAxMzY3NjcxNF5BMl5BanBnXkFtZTcwNTI5OTM0Mw@@._V1_SX300.jpg', 'Ratings': [{'Source': 'Internet Movie Database', 'Value': '8.8/10'}, {'Source': 'Rotten Tomatoes', 'Value': '87%'}, {'Source': 'Metacritic', 'Value': '74/100'}], 'Metascore': '74', 'imdbRating': '8.8', 'imdbVotes': '2,615,361', 'imdbID': 'tt1375666', 'Type': 'movie', 'DVD': 'N/A', 'BoxOffice': '$292,587,330', 'Production': 'N/A', 'Website': 'N/A', 'Response': 'True'}
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:25] "GET /search/search-by-id?id=tt1375666&plot=short HTTP/1.1" 200 -
INFO:app.utils.logger:[]
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:25] "GET /search/search-by-keyword?keyword=star&year=1977&content_type=movie&page=1 HTTP/1.1" 200 -
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:25] "GET /search/search-random-movie?plot=short HTTP/1.1" 200 -
INFO:app.utils.logger:[{'Title': 'The Shawshank Redemption', 'Year': '1994', 'Rated': 'R', 'Released': '14 Oct 1994', 'Runtime': '142 min', 'Genre': 'Drama', 'Director': 'Frank Darabont', 'Writer': 'Stephen King, Frank Darabont', 'Actors': 'Tim Robbins, Morgan Freeman, Bob Gunton', 'Plot': 'A banker convicted of uxoricide forms a friendship over a quarter century with a hardened convict, while maintaining his innocence and trying to remain hopeful through simple compassion.', 'Language': 'English', 'Country': 'United States', 'Awards': 'Nominated for 7 Oscars. 21 wins & 42 nominations total', 'Poster': 'https://m.media-amazon.com/images/M/MV5BMDAyY2FhYjctNDc5OS00MDNlLThiMGUtY2UxYWVkNGY2ZjljXkEyXkFqcGc@._V1_SX300.jpg', 'Ratings': [{'Source': 'Internet Movie Database', 'Value': '9.3/10'}, {'Source': 'Rotten Tomatoes', 'Value': '89%'}, {'Source': 'Metacritic', 'Value': '82/100'}], 'Metascore': '82', 'imdbRating': '9.3', 'imdbVotes': '2,970,162', 'imdbID': 'tt0111161', 'Type': 'movie', 'DVD': 'N/A', 'BoxOffice': '$28,767,189', 'Production': 'N/A', 'Website': 'N/A', 'Response': 'True'}, {'Title': 'The Godfather',

'Year': '1972', 'Rated': 'R', 'Released': '24 Mar 1972', 'Runtime': '175 min', 'Genre': 'Crime, Drama', 'Director': 'Francis Ford Coppola', 'Writer': 'Mario Puzo, Francis Ford Coppola', 'Actors': 'Marlon Brando, Al Pacino, James Caan', 'Plot': 'The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.', 'Language': 'English, Italian, Latin', 'Country': 'United States', 'Awards': 'Won 3 Oscars. 31 wins & 31 nominations total', 'Poster': 'https://m.media-amazon.com/images/M/MV5BYTJkNGQyZDgtZDQ0NC00MDM0LWEzZWQtYzUzZDEwMDljZWNjXkEyXkFqcGc@._V1_SX300.jpg', 'Ratings': [{'Source': 'Internet Movie Database', 'Value': '9.2/10'}, {'Source': 'Rotten Tomatoes', 'Value': '97%'}, {'Source': 'Metacritic', 'Value': '100/100'}], 'Metascore': '100', 'imdbRating': '9.2', 'imdbVotes': '2,068,172', 'imdbID': 'tt0068646', 'Type': 'movie', 'DVD': 'N/A', 'BoxOffice': '$136,381,073', 'Production': 'N/A', 'Website': 'N/A', 'Response': 'True'}, {'Title': 'The Dark Knight', 'Year': '2008', 'Rated': 'PG-13', 'Released': '18 Jul 2008', 'Runtime': '152 min', 'Genre': 'Action, Crime, Drama', 'Director': 'Christopher Nolan', 'Writer': 'Jonathan Nolan, Christopher Nolan, David S. Goyer', 'Actors': 'Christian Bale, Heath Ledger, Aaron Eckhart', 'Plot': 'When a menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman, James Gordon and Harvey Dent must work together to put an end to the madness.', 'Language': 'English, Mandarin', 'Country': 'United States, United Kingdom', 'Awards': 'Won 2 Oscars. 164 wins & 164 nominations total', 'Poster': 'https://m.media-amazon.com/images/M/MV5BMTMxNTMwODM0NF5BMl5BanBnXkFtZTcwODAyMTk2Mw@@._V1_SX300.jpg', 'Ratings': [{'Source': 'Internet Movie Database', 'Value': '9.0/10'}, {'Source': 'Rotten Tomatoes', 'Value': '94%'}, {'Source': 'Metacritic', 'Value': '84/100'}], 'Metascore': '84', 'imdbRating': '9.0', 'imdbVotes': '2,947,373', 'imdbID': 'tt0468569', 'Type': 'movie', 'DVD': 'N/A', 'BoxOffice': '$534,987,076', 'Production': 'N/A', 'Website': 'N/A', 'Response': 'True'}, {'Title': 'Pulp Fiction', 'Year': '1994', 'Rated': 'R', 'Released': '14 Oct 1994', 'Runtime': '154 min', 'Genre': 'Crime, Drama', 'Director': 'Quentin Tarantino', 'Writer': 'Quentin Tarantino, Roger Avary', 'Actors': 'John Travolta, Uma Thurman, Samuel L. Jackson', 'Plot': 'The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine in four tales of violence and redemption.', 'Language': 'English, Spanish, French', 'Country': 'United States', 'Awards': 'Won 1 Oscar. 69 wins & 72 nominations total', 'Poster': 'https://m.media-amazon.com/images/M/MV5BYTViYTE3ZGQtNDBlMC00ZTAyLTkyODMtZGRiZDg0MjA2YThkXkEyXkFqcGc@._V1_SX300.jpg', 'Ratings': [{'Source': 'Internet Movie Database', 'Value': '8.9/10'}, {'Source': 'Rotten Tomatoes', 'Value': '92%'}, {'Source': 'Metacritic', 'Value': '95/100'}], 'Metascore': '95', 'imdbRating': '8.9', 'imdbVotes': '2,277,294', 'imdbID': 'tt0110912', 'Type': 'movie', 'DVD': 'N/A', 'BoxOffice': '$107,928,762', 'Production': 'N/A', 'Website': 'N/A', 'Response': 'True'}, {'Title': "Schindler's List", 'Year': '1993', 'Rated': 'R', 'Released': '04 Feb 1994', 'Runtime': '195 min', 'Genre': 'Biography, Drama, History', 'Director': 'Steven Spielberg', 'Writer': 'Thomas Keneally, Steven Zaillian', 'Actors': 'Liam Neeson, Ralph Fiennes, Ben Kingsley', 'Plot': 'In German-occupied Poland during World War II, industrialist Oskar

Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.', 'Language': 'English, Hebrew, German, Polish, Latin', 'Country': 'United States', 'Awards': 'Won 7 Oscars. 91 wins & 49 nominations total', 'Poster': 'https://m.media-amazon.com/images/M/MV5BNjM1ZDQxYWUtMzQyZS00MTE1LWJmZGYtNGUyNTdlYjM3ZmVmXkEyXkFqcGc@._V1_SX300.jpg', 'Ratings': [{'Source': 'Internet Movie Database', 'Value': '9.0/10'}, {'Source': 'Rotten Tomatoes', 'Value': '98%'}, {'Source': 'Metacritic', 'Value': '95/100'}], 'Metascore': '95', 'imdbRating': '9.0', 'imdbVotes': '1,487,349', 'imdbID': 'tt0108052', 'Type': 'movie', 'DVD': 'N/A', 'BoxOffice': '$96,898,818', 'Production': 'N/A', 'Website': 'N/A', 'Response': 'True'}]
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:25] "GET /search/top-rated-movies HTTP/1.1" 200 -
INFO:app.utils.logger:Adding to watchlist
INFO:app.utils.logger:Added movie 'Elf' to testuser123's watchlist successfully.
INFO:app.utils.logger:Movie tt0319343 added to testuser123's watchlist
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:25] "POST /watchlist/add-to-watchlist HTTP/1.1" 201 -
INFO:app.utils.logger:Updating watchlist
INFO:app.utils.logger:Updated 'Elf' for testuser123
INFO:app.utils.logger:Movie tt0319343 updated from testuser123's watchlist
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:25] "PUT /watchlist/update-watchlist HTTP/1.1" 200 -
INFO:app.utils.logger:Getting watchlist
INFO:app.utils.logger:Got testuser123's watchlist
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:26] "GET /watchlist/get-watchlist HTTP/1.1" 200 -
INFO:app.utils.logger:Deleting from watchlist
INFO:app.utils.logger:Deleted movie 'Elf' from testuser123's watchlist successfully.
INFO:app.utils.logger:Movie tt0319343 deleted from testuser123's watchlist
INFO:werkzeug:127.0.0.1 - - [03/Dec/2024 10:35:26] "DELETE /watchlist/delete-from-watchlist HTTP/1.1" 200 -

(base) crc-dot1x-nat-10-239-62-175:movie-app callieliu$ sh smoketest.sh
Starting smoke tests...
Testing /health endpoint...
Response: {
  "status": "App is running!"
}
Testing /user/create-account endpoint...
Response: {
  "message": "Account created successfully"

```
}
Testing /user/login endpoint...
Response: {
  "message": "Login successful"
}
Testing /user/update-password endpoint...
Response: {
  "message": "Password updated successfully"
}
Testing /search-by-title endpoint...
Response: {
  "Actors": "Leonardo DiCaprio, Joseph Gordon-Levitt, Elliot Page",
  "Awards": "Won 4 Oscars. 159 wins & 220 nominations total",
  "BoxOffice": "$292,587,330",
  "Country": "United States, United Kingdom",
  "DVD": "N/A",
  "Director": "Christopher Nolan",
  "Genre": "Action, Adventure, Sci-Fi",
  "Language": "English, Japanese, French",
  "Metascore": "74",
  "Plot": "Dom Cobb is a skilled thief, the absolute best in the dangerous art of
extraction, stealing valuable secrets from deep within the subconscious during the
dream state, when the mind is at its most vulnerable. Cobb's rare ability has made
him a coveted player in this treacherous new world of corporate espionage, but it
has also made him an international fugitive and cost him everything he has ever
loved. Now Cobb is being offered a chance at redemption. One last job could give
him his life back but only if he can accomplish the impossible, inception. Instead of
the perfect heist, Cobb and his team of specialists have to pull off the reverse:
their task is not to steal an idea, but to plant one. If they succeed, it could be the
perfect crime. But no amount of careful planning or expertise can prepare the
team for the dangerous enemy that seems to predict their every move. An enemy
that only Cobb could have seen coming.",
  "Poster": "https://m.media-amazon.com/images/M/
MV5BMjAxMzY3NjcxNF5BMl5BanBnXkFtZTcwNTI5OTM0Mw@@._V1_SX300.jpg",
  "Production": "N/A",
  "Rated": "PG-13",
  "Ratings": [
    {
      "Source": "Internet Movie Database",
      "Value": "8.8/10"
    },
    {
      "Source": "Rotten Tomatoes",
      "Value": "87%"
```

    },
    {
      "Source": "Metacritic",
      "Value": "74/100"
    }
  ],
  "Released": "16 Jul 2010",
  "Response": "True",
  "Runtime": "148 min",
  "Title": "Inception",
  "Type": "movie",
  "Website": "N/A",
  "Writer": "Christopher Nolan",
  "Year": "2010",
  "imdbID": "tt1375666",
  "imdbRating": "8.8",
  "imdbVotes": "2,615,361"
}
Testing /search-by-id endpoint...
Response: {
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  "Awards": "Won 4 Oscars. 159 wins & 220 nominations total",
  "BoxOffice": "$292,587,330",
  "Country": "United States, United Kingdom",
  "DVD": "N/A",
  "Director": "Christopher Nolan",
  "Genre": "Action, Adventure, Sci-Fi",
  "Language": "English, Japanese, French",
  "Metascore": "74",
  "Plot": "A thief who steals corporate secrets through the use of dream-sharing technology is given the inverse task of planting an idea into the mind of a C.E.O., but his tragic past may doom the project and his team to disaster.",
  "Poster": "https://m.media-amazon.com/images/M/MV5BMjAxMzY3NjcxNF5BMl5BanBnXkFtZTcwNTI5OTM0Mw@@._V1_SX300.jpg",
  "Production": "N/A",
  "Rated": "PG-13",
  "Ratings": [
    {
      "Source": "Internet Movie Database",
      "Value": "8.8/10"
    },
    {
      "Source": "Rotten Tomatoes",
      "Value": "87%"

    },
    {
      "Source": "Metacritic",
      "Value": "74/100"
    }
  ],
  "Released": "16 Jul 2010",
  "Response": "True",
  "Runtime": "148 min",
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  "Website": "N/A",
  "Writer": "Christopher Nolan",
  "Year": "2010",
  "imdbID": "tt1375666",
  "imdbRating": "8.8",
  "imdbVotes": "2,615,361"
}
Testing /search-by-keyword endpoint...
Response: []
Testing /search-random-movie endpoint...
Response: {
  "Actors": "Liam Neeson, Ralph Fiennes, Ben Kingsley",
  "Awards": "Won 7 Oscars. 91 wins & 49 nominations total",
  "BoxOffice": "$96,898,818",
  "Country": "United States",
  "DVD": "N/A",
  "Director": "Steven Spielberg",
  "Genre": "Biography, Drama, History",
  "Language": "English, Hebrew, German, Polish, Latin",
  "Metascore": "95",
  "Plot": "In German-occupied Poland during World War II, industrialist Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.",
  "Poster": "https://m.media-amazon.com/images/M/MV5BNjM1ZDQxYWUtMzQyZS00MTE1LWJmZGYtNGUyNTdlYjM3ZmVmXkEyXkFqcGc@._V1_SX300.jpg",
  "Production": "N/A",
  "Rated": "R",
  "Ratings": [
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      "Value": "9.0/10"
    },

```
    {
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    },
    {
      "Source": "Metacritic",
      "Value": "95/100"
    }
  ],
  "Released": "04 Feb 1994",
  "Response": "True",
  "Runtime": "195 min",
  "Title": "Schindler's List",
  "Type": "movie",
  "Website": "N/A",
  "Writer": "Thomas Keneally, Steven Zaillian",
  "Year": "1993",
  "imdbID": "tt0108052",
  "imdbRating": "9.0",
  "imdbVotes": "1,487,349"
}
```

Testing /top-rated-movies endpoint...
Response: [

```
  {
    "Actors": "Tim Robbins, Morgan Freeman, Bob Gunton",
    "Awards": "Nominated for 7 Oscars. 21 wins & 42 nominations total",
    "BoxOffice": "$28,767,189",
    "Country": "United States",
    "DVD": "N/A",
    "Director": "Frank Darabont",
    "Genre": "Drama",
    "Language": "English",
    "Metascore": "82",
    "Plot": "A banker convicted of uxoricide forms a friendship over a quarter
century with a hardened convict, while maintaining his innocence and trying to
remain hopeful through simple compassion.",
    "Poster": "https://m.media-amazon.com/images/M/
MV5BMDAyY2FhYjctNDc5OS00MDNlLThiMGUtY2UxYWVkNGY2ZjljXkEyXkFqcGc
@._V1_SX300.jpg",
    "Production": "N/A",
    "Rated": "R",
    "Ratings": [
      {
        "Source": "Internet Movie Database",
```

          "Value": "9.3/10"
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          "Value": "89%"
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        {
          "Source": "Metacritic",
          "Value": "82/100"
        }
      ],
      "Released": "14 Oct 1994",
      "Response": "True",
      "Runtime": "142 min",
      "Title": "The Shawshank Redemption",
      "Type": "movie",
      "Website": "N/A",
      "Writer": "Stephen King, Frank Darabont",
      "Year": "1994",
      "imdbID": "tt0111161",
      "imdbRating": "9.3",
      "imdbVotes": "2,970,162"
    },
    {
      "Actors": "Marlon Brando, Al Pacino, James Caan",
      "Awards": "Won 3 Oscars. 31 wins & 31 nominations total",
      "BoxOffice": "$136,381,073",
      "Country": "United States",
      "DVD": "N/A",
      "Director": "Francis Ford Coppola",
      "Genre": "Crime, Drama",
      "Language": "English, Italian, Latin",
      "Metascore": "100",
      "Plot": "The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.",
      "Poster": "https://m.media-amazon.com/images/M/MV5BYTJkNGQyZDgtZDQ0NC00MDM0LWEzZWQtYzUzZDEwMDljZWNjXkEyXkFqcGc@._V1_SX300.jpg",
      "Production": "N/A",
      "Rated": "R",
      "Ratings": [
        {
          "Source": "Internet Movie Database",
          "Value": "9.2/10"

      },
      {
        "Source": "Rotten Tomatoes",
        "Value": "97%"
      },
      {
        "Source": "Metacritic",
        "Value": "100/100"
      }
    ],
    "Released": "24 Mar 1972",
    "Response": "True",
    "Runtime": "175 min",
    "Title": "The Godfather",
    "Type": "movie",
    "Website": "N/A",
    "Writer": "Mario Puzo, Francis Ford Coppola",
    "Year": "1972",
    "imdbID": "tt0068646",
    "imdbRating": "9.2",
    "imdbVotes": "2,068,172"
  },
  {
    "Actors": "Christian Bale, Heath Ledger, Aaron Eckhart",
    "Awards": "Won 2 Oscars. 164 wins & 164 nominations total",
    "BoxOffice": "$534,987,076",
    "Country": "United States, United Kingdom",
    "DVD": "N/A",
    "Director": "Christopher Nolan",
    "Genre": "Action, Crime, Drama",
    "Language": "English, Mandarin",
    "Metascore": "84",
    "Plot": "When a menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman, James Gordon and Harvey Dent must work together to put an end to the madness.",
    "Poster": "https://m.media-amazon.com/images/M/MV5BMTMxNTMwODM0NF5BMl5BanBnXkFtZTcwODAyMTk2Mw@@._V1_SX300.jpg",
    "Production": "N/A",
    "Rated": "PG-13",
    "Ratings": [
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        "Value": "9.0/10"

      },
      {
        "Source": "Rotten Tomatoes",
        "Value": "94%"
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      {
        "Source": "Metacritic",
        "Value": "84/100"
      }
    ],
    "Released": "18 Jul 2008",
    "Response": "True",
    "Runtime": "152 min",
    "Title": "The Dark Knight",
    "Type": "movie",
    "Website": "N/A",
    "Writer": "Jonathan Nolan, Christopher Nolan, David S. Goyer",
    "Year": "2008",
    "imdbID": "tt0468569",
    "imdbRating": "9.0",
    "imdbVotes": "2,947,373"
  },
  {
    "Actors": "John Travolta, Uma Thurman, Samuel L. Jackson",
    "Awards": "Won 1 Oscar. 69 wins & 72 nominations total",
    "BoxOffice": "$107,928,762",
    "Country": "United States",
    "DVD": "N/A",
    "Director": "Quentin Tarantino",
    "Genre": "Crime, Drama",
    "Language": "English, Spanish, French",
    "Metascore": "95",
    "Plot": "The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine in four tales of violence and redemption.",
    "Poster": "https://m.media-amazon.com/images/M/MV5BYTViYTE3ZGQtNDBlMC00ZTAyLTkyODMtZGRiZDg0MjA2YThkXkEyXkFqcGc@._V1_SX300.jpg",
    "Production": "N/A",
    "Rated": "R",
    "Ratings": [
      {
        "Source": "Internet Movie Database",
        "Value": "8.9/10"
      },

```
    {
      "Source": "Rotten Tomatoes",
      "Value": "92%"
    },
    {
      "Source": "Metacritic",
      "Value": "95/100"
    }
  ],
  "Released": "14 Oct 1994",
  "Response": "True",
  "Runtime": "154 min",
  "Title": "Pulp Fiction",
  "Type": "movie",
  "Website": "N/A",
  "Writer": "Quentin Tarantino, Roger Avary",
  "Year": "1994",
  "imdbID": "tt0110912",
  "imdbRating": "8.9",
  "imdbVotes": "2,277,294"
},
{
  "Actors": "Liam Neeson, Ralph Fiennes, Ben Kingsley",
  "Awards": "Won 7 Oscars. 91 wins & 49 nominations total",
  "BoxOffice": "$96,898,818",
  "Country": "United States",
  "DVD": "N/A",
  "Director": "Steven Spielberg",
  "Genre": "Biography, Drama, History",
  "Language": "English, Hebrew, German, Polish, Latin",
  "Metascore": "95",
  "Plot": "In German-occupied Poland during World War II, industrialist Oskar
Schindler gradually becomes concerned for his Jewish workforce after witnessing
their persecution by the Nazis.",
  "Poster": "https://m.media-amazon.com/images/M/
MV5BNjM1ZDQxYWUtMzQyZS00MTE1LWJmZGYtNGUyNTdlYjM3ZmVmXkEyXkFq
cGc@._V1_SX300.jpg",
  "Production": "N/A",
  "Rated": "R",
  "Ratings": [
    {
      "Source": "Internet Movie Database",
      "Value": "9.0/10"
    },
```

```
      {
        "Source": "Rotten Tomatoes",
        "Value": "98%"
      },
      {
        "Source": "Metacritic",
        "Value": "95/100"
      }
    ],
    "Released": "04 Feb 1994",
    "Response": "True",
    "Runtime": "195 min",
    "Title": "Schindler's List",
    "Type": "movie",
    "Website": "N/A",
    "Writer": "Thomas Keneally, Steven Zaillian",
    "Year": "1993",
    "imdbID": "tt0108052",
    "imdbRating": "9.0",
    "imdbVotes": "1,487,349"
  }
]
Testing /add-to-watchlist endpoint...
Response: {
  "message": "Movie added to testuser123's watchlist"
}
Testing /update-watchlist endpoint...
Response: {
  "message": "Movie updated from testuser123's watchlist"
}
Testing /get-watchlist endpoint...
Response: {
  "message": "testuser123's watchlist",
  "watchlist": [
    {
      "Genre": "Adventure, Comedy, Family",
      "Plot": "Raised as an oversized elf, Buddy travels from the North Pole to New York City to meet his biological father, Walter Hobbs, who doesn't know he exists and is in desperate need of some Christmas spirit.",
      "Rated": "PG",
      "Runtime": "97 min",
      "Title": "Elf",
      "Type": "movie",
      "Watching State": "Watch Next",
```

```
    "Year": "2003",
    "imdbID": "tt0319343",
    "imdbRating": "7.1"
  }
 ]
}
Testing /delete-from-watchlist endpoint...
Response: {
  "message": "Movie deleted from testuser123's watchlist"
}
Smoke tests completed.
(base) crc-dot1x-nat-10-239-62-175:movie-app callieliu$
```