|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User Task** | | Movie Management | | |
| Purpose (Goal) | | Users manage movies and corresponding performer data of a movie collection. | | |
| Frequency | | Often and at any time (depending on the user’s needs) | | |
| Actors | | User who wants to manage movies | | |
|  | | | | |
| **Sub-tasks:** | | | | **Example of solution:** |
| **1** | **Describe a movie**  Add and describe a movie with typical data like its title or alternative titles, release date, production country, release date, runtime, location, IMDB ID, and performers. Or change an existing description. Or view movies (possibly sorted). | | Provide default values wherever possible, implemented in create movie, change detail movie data, link existing performer, unlink performer, show movie, list movies, search, sort movies, show performer details and show movie in IMDB | |
| **1ap** | **Remove movie**  **Problems:** Removing all movies a certain performer participates in might result in performers associated with no movies. | | Ensure the consistency of performers and movies, implemented in function remove movie | |
| **1bp** | **Change Detail Movie Data**  The data of a movie should be correct that means be the same as data which can be found in the internet or a video store. **Problems:** The person describing the movie might not know all important data. | | Fetch the movie data from a movie database like IMDB, implemented in function complete movie | |
| **1cp** | **Create a movie**  **Problems:** The person describing the movie might not know all important data. | | Fetch the movie data from a movie database like IMDB, implemented in function complete movie | |
| **1d** | **Watch movie**  **Problems:** No file /film linked, only sets the watch date = now(). | | In film description link film from hard drive | |
| **1e** | **Add/Remove Performer to/from Movie**  Remove an existing performer. This includes the removal of all links to movies from this performer. The user is requested to confirm the removal. When the performer is removed and therefore unlinked from a movie, the overall rating of the movie is recalculated. | | Implemented in functions “Create linked performer” and “Link to existing performer” or vice versa | |
| **1f** | **Rate movie**  Set the rating of a movie and calculate overall rating of the movie | | Implemented in function “rate movie” | |
| **1gp** | **Complete Movie**  Replaces all movie data with data fetched from an online movie database. Also the performers data is updated: All performers that are not yet linked to the movie are created and added to the movie's performers list. An error message is shown, if the connections fails or there does not exist an entry in the online movie database.  **Problems:** Not implemented | | Establish connection to IMDB | |
| **2** | **Describe a performer**  Add and describe a performer featuring in movies with typical data like first and last or alternative names, biography, country, IMDB ID and date of birth. Or change an existing description. Or view performers (possibly sorted). | | Provide default values wherever possible, implemented in create linked performer, change detail performer data, link existing movie, unlink movie, list performers, sort performers, search, show performer, show movie details and show performer in IMDB | |
| **2ap** | **Relate performer to movie**  **Problems:** Creating a performer without relating her/him to a movie lead to performers associated with no movies. Thus, a performer needs to be related to a movie. | | Ensure that performers are linked to movies on creation, implemented in function create linked performer, unlink performer, | |
| **2b** | **Remove performer**  Removes a performer. | | Implemented in function remove performer | |
| **2cp** | **Create performer**  **Problems:** The person describing the performer might not know all important data.  Creating a new performer doesn’t open the window for entering all the details of a new performer, the new entry is at the bottom of the performerlist  **Problems:** Not implemented | | Fetch the movie data from a performer database like IMDB, implemented in function complete performer  Open the detail view of a performer when creating a new one | |
| **2d** | **Add/remove movie to/from performer**  Remove an existing movie. This includes the removal of all links to performers from this movie. If the removal of the movie results in any performers not linked with a movie anymore, the user is warned. If the user accepts, the movie and the performers linked only to it are removed. In any case the user is requested to confirm the removal. | | Implemented in functions “Link to existing movie”, “Unlink from selected movie” | |
| **2d** | **Rate performer**  Set the rating of a performer and calculate overall rating of linked movies | | Implemented in function “rate performer” | |
| **3** | **Movie-manager**  Handle the given movies and performers and allow humans to interact (create, edit, delete, list, …) | | Provides default GUI with movies and performers | |
| **3a** | **Start Movie-manager**  Get data from the persistent storage and show the data as the list of movies and - if existing - the details of the first movie. This function is triggered when the software is started. | | Implemented in function “Start Movie Manager” | |
| **3b** | **Stop Movie-manager**  **Ma**ke data persistent. If there were some changes in the session, then the user is asked to confirm the saving before closing the application. | | Implemented in function “Stop Movie Manager” | |
| **3c** | **Show/Change Details**  Show a movie linked to a selected performer.  Show a performer linked to a selected movie. | | Implemented in functions “Show movie in IMDB” and “Show movie details”  Implemented in functions “Show performer in IMDB” and “Show performer details” | |
| **3d** | **Sort performers/movies**  Sort the existing performers/movies by a sorting criterion and direction. The function cannot be invoked if there are less than two performers/movies. | | Implemented in function “Sort Performers/Movies” | |
| **3ep** | **Calculate Overall Rating**  Calculate the overall rating of a movie based on the movies rating and on the ratings of the performers linked to the movie. This function is triggered as soon as a rating of a movie or performer is changed. It cannot be explicitly triggered.  **Problems:** Not implemented | | The rating is calculated by the formula:  overall rating = 1/2 \* (average Performer rating + movie rating)  in which average Performer rating is calculate as :  average Performer rating = sum of all performer ratings / number of performers | |
| **3f** | **Search**  Search for a movie or a performer. All movies and performers matching the search string are shown. In case of not matching movies or performers the user is warned. The user can select movie or performer from the displayed list or finish the search. | | Search for a movie or a performer. All movies and performers matching the search string are shown. In case of not matching movies or performers the user is warned. The user can select movie or performer from the displayed list or finish the search. | |
| **3g** | **List Movies/performers**  Show all existing movies/performers in a list together with their rating and overall rating and their lent/available status. If there does not exist a movie/performer, an empty list is shown.  Function is triggerd on movie manager start, by selection the movies/performers tab in the UI or by browsing from the movie/performer list of a performer/movie to the details of a movie/performer. | | Implemented in function “List movies” | |