**Functional requirements**

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| Requirement ID | Description | Priority |
| FR1 | The system accepts different user types and grant access to relevant functionalities subject to user privileges. | Must |
| FR2 | The Login/Logout functions work in line with Sessions, which expected to end after 20 non-active time. Terminated sessions logouts the user | Must |
| FR3 | An ordinary customer does not need to login the system to book a seat and buy the ticket providing identification details | Must |
| FR3.1 | a student or a club manager (representative) needs to login the system to gain access to booking facilities and buying tickets The payment should be arranged to take off credit from student’s or club manager’s account, where each student and club manager should have credit account so as to be able to buy tickets. | Must |
| FR3.2 | payment can be arranged based on some assumptions for ordinary customers | Must |
| FR4 | There should be functionalities attached to each student and club manager users to top up their credits | Must |
| FR5 | The duties/responsibilities and privileges of Cinema managers and workers can be retrieved/concluded from UWEFlix document, which includes advertising movies, arranging capacities, pricing the tickets, and applying discounts | Must |
| FR6 | Adding new student users or club managers is within the responsibilities of cinema manager or worker, while the application should be made by candidate users | Must |
| FR7 | Account manager looks after the cinema’s finance, can observe daily transactions, generate periodical, (e.g., monthly or annually) financial reports | Should |
| FR8 | Cancellation of bookings can be done upon request and subject to cinema manager’s approval | Must |
| FR9 | Changes in the prices and applying discounts should also be available for cinema managers or workers, while students and club managers should be able to request for further discounts | Must |
| FR10 | Front-end design and further security measures beyond authentication will be considered as add-on | Must |
| FR11 | The system should prompt the user to enter a valid email address if not valid | Must |
| FR12 | The system must allow the user to register a new account | Must |
| FR13 | The system should allow you to update student account | Must |
| FR14 | The system must allow deletion of accounts | Must |
| FR15 | The system must display accounts | Must |
| FR16 | The system must allow creation of a basic user account | Must |
| FR17 | The system must allow you to login and require the correct user/password from registration | Must |
| FR18 | The system must allow you create a new club representative | Must |
| FR19 | The system must allow you to update a club account | Must |
| FR20 | The system must display existing clubs | Must |
| FR21 | The system must allow the addition of a new screen | Must |
| FR22 | The system must allow the addition of a new showing | Must |
| FR23 | The system must display all showings available | Must |
| FR24 | The system displays all films presently available | Must |
| FR25 | The system must allow you to include a title, description, age rating, duration and release date when adding a film | Must |
| FR26 | The system must allow the user to book a ticket | Must |
| FR27 | The system must input data to the appropriate database | Must |
| FR28 | The system should prompt the user if they enter an incorrect number | Should |
| FR29 | The system should display a drop down list where appropriate | Should |
| FR30 | The system should recognise if a password is too short | Could |
| FR31 | The system should recognised common passwords and display an error message | Could |
| FR32 | The system could display a drop down list for age rating when adding | Could |
| FR33 | The system could display a drop list for duration when adding | Could |
| FR34 | The system won’t allow a student to make multiple bookings at one time | Won’t |

Moscow Priority justifications

**Must do:**

FR1 is a ‘must do’ because it was an original formalised functional requirement because it enables different priority privileges and only certain staff members should have access to specific functionalities

FR2 is a ‘must do’ because it was an original formalised functional requirement because accounts could not be used without a log-in, log-out feature. Non active time ensures the user doesn’t hold a seat for a long period of time without booking

FR3 is a ‘must do’ because it was an original formalised functional requirement and allows ease of use

FR3.1 is a ‘must do’ because it was an original formalised functional requirement

FR3.2 is a ‘must do’ because it was an original formalised functional requirement

FR4 is a ‘must do’ because it was an original formalised functional requirement and allows student and club managers to use credits

FR5 is a ‘must do’ because it was an original formalised functional requirement

FR6 is a ‘must do’ because it was an original formalised functional requirement and ensures roles have specific permissions

FR8 is a ‘must do’ because it was an original formalised functional requirement and ensures seats can still be booked by another user if there is a cancellation, so the seat is not wasted

FR9 is a ‘must do’ because it was an original formalised functional requirement

FR10 is a ‘must do’ because it was an original formalised functional requirement

FR11 is a ‘must do’ because if the user were to enter an invalid email address by mistake then they would not receive confirmation / tickets

FR12 is a ‘must do’ because the user should have an option to register an account

FR13 is a ‘must do’ because user details may change and they should be able to update their own account instead of creating a new one

FR14 is a ‘must do’ because accounts may become redundant and won’t need to be held on the database anymore

FR15 is a ‘must do’ so the user with appropriate permissions can access them

FR16 is a ‘must do’ to allow the user to create an account and view permissions associated with it

FR17 is a ‘must do’ to ensure the user is logged in on the correct account and doesn’t have access to any other accounts which would breach GDPR regulations

FR18 is a ‘must do’ to allow the manager the create a new club representative

FR19 is a ‘must do’ because details within a club may change and should be able to be updated without having to create a new one

FR20 is a ‘must do’ so the user with appropriate permissions can view clubs that have been created

FR21 is a ‘must do’ because the cinema manager will need to add screens to the system so the user who is booking a seat can see what screen they need to go to for viewing

FR22 is a ‘must do’ because the manager will need to add showings

FR23 is a ‘must do’ because the system will need to display all showing available in order to create bookings

FR24 is a ‘must do’ so the user can view what films are available to book

FR25 is a ‘must do’ so the user with appropriate permissions can add film details in order for the person booking to view

FR26 is a ‘must do’ as without it the cinema would have no online bookings

FR27 is a ‘must do’ because inputted information needs to be stored

**Should do**

FR28 is a ‘should do’ as it is not essential for the user to create an account however they would not receive an details that would have been sent to that number if its incorrect so prompting the user if their number doesn’t start with 0 or have the correct input mask length will help ensure this doesn’t happen

FR29 is a ‘should do’ as it ensures the user doesn’t mistype and provides ease of use

FR7 is a ‘must do’ because it was an original formalised functional requirement

**Could do**

FR30 is a ‘could do’ as it is not essential however provides further security for the user prompting them to input an entry that is about 8 characters in length which will be harder to guess

FR31 is a ‘could do’ as it is not essential however provides further security for the user if they have entered a password that is recognised as common

FR32 is a ‘could do’ as it is not essential however provides ease of use to the cinema manager by having the age ratings pre-defined in a drop down instead of having to type them every time

FR33 is a ‘could do’ as it is not essential however provides ease of use to the cinema manager by having the film durations pre-defined in a drop down instead of having to type them every time.

**Won’t do**

FR34 The system won’t allow students to make ‘bulk’ bookings at one time