**UWEFLIX Testing document – Group 13**

**Functional requirement testing**

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| Test Case | Expected Result | Actual Result | Pass/Partial/Fail |
| MFR1 | The system accepts different user types and grant access to relevant functionalities subject to user privileges | The system fulfils the expected result and accepts different user types such as student, club, manager etc with relevant functionalities | **Pass** |
| MFR2 | The Login/Logout functions work in line with Sessions, which expected to end after 20 non-active time. Terminated sessions logouts the user | Login / logout function as expected, however it does not end after 20 minutes of non-active time | **Partial** |
| MFR3 | Does the system allow an ordinary customer to login the system to book a seat without providing identification details | The system allows a booking | **Partial** |
| MFR3.1 | The system requires a student or club manager to log into the system to gain access to booking facilities | Works as expected, student and club managers have to log in to gain access to booking facilities | **Pass** |
| MFR3.2 | The payment should be arranged to take off credit from student’s or club managers accounts, each should have a credit account or payment option | Some evidence however not fully functional yet | **Partial** |
| MFR4 | Functionalities attached to each student and club manager users to top up their credits | No option for students or club managers to top up their credits[] | **Partial** |
| MFR5 | Cinema managers / workers can advertise movies, arrange capacities, price tickets and apply discounts | Cinema manager can advertise movies, arrange capacities and add prices | **Pass** |
| MFR6 | Cinema manager / worker can add new student users or club managers | Works as expected | **Pass** |
| SFR7 | Account manager can look after the cinema’s finance, observe daily transactions and financial reports | No evidence of financial reports | **Fail** |
| MFR8 | Cancellation of bookings can be done upon request subject to cinema manager’s approval | In progress – a booking can be cancelled | **Partial** |
| MFR9 | 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 | Discounts have been added to the models however | **Partial** |
| MFR10 | Front-end design and further security measures beyond authentication will be considered as add-on | Some front-end design is evident | **Partial** |

Further functional testing

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| **Test Case** | **Expected Result** | **Actual Result** | **Pass/Partial/Fail** |
| MFR11 | The system prompts the user to enter a valid email address if not valid | If the user doesn’t enter a valid email address i.e without ‘@’, they are not allowed to continue | **Pass** |
| MFR12 | The system allows the user to register a student account | The system allows registration of a student account | **Pass** |
| MFR13 | The system allows you to update student account | The system allows the user to update their student account details | **Pass** |
| MFR14 | The system allows you to delete accounts | The system allows the user to delete their account | **Pass** |
| MFR15 | The system displays student accounts | The system displays accounts in a new window | **Pass** |
| MFR16 | Creation of a basic user account | The system allows creation of an account | **Pass** |
| MFR17 | The system allows you to log in and requires correct user and password | The system requires a correct username/password after registration of an account | **Pass** |
| MFR18 | The system allows you to create a new club representative | The system allows creation of a new club representative | **Pass** |
| MFR19 | The system allows you to update club account | The system allows updating of club account | **Pass** |
| MFR20 | The system displays existing clubs | The system displays existing clubs on a new window | **Pass** |
| MFR21 | The system allows addition of a new screen | The system allows the user with appropriate permissions to add a new screen | **Pass** |
| MFR22 | The system allows addition of new showings | The system allows addition of new showings | **Pass** |
| MFR23 | The system displays all showings available | The system displays all showings | **Pass** |
| MFR24 | The system displays all films presently available | The system displays all films available | **Pass** |
| MFR25 | The system allows you to include a title, description, age rating, duration and release date when adding a film | The system includes appropriate drop downs when clicked on | **Pass** |
| MFR26 | The system allows the user to book a ticket | The system allows you to book however linking to user is still in progress | **Partial** |
| MFR27 | The system must input data to the appropriate database | The system inputs and pulls inputted data into relevant database | **Pass** |
| SFR28 | The system prompts the user if they enter an incorrect number | The system prompts the user if they don’t enter a number beginning with 0 or the correct number of characters | **Pass** |
| SFR29 | the system display a date box where appropriate | The system displays a date box where appropriate such as date of birth | **Pass** |
| SFR30 | The system recognises if a password is too short | The system recognises if a password is under 8 characters | **Pass** |
| CFR31 | The system should recognise common passwords and prompt to try again | The system recognises common passwords, such as ‘password’ for example and doesn’t let the user continue until resurrected | **Pass** |
| CFR32 | The system displays a drop list for age rating when adding | The system displays a drop down list with all viable age ratings for films | **Pass** |
| CFR33 | The system displays a drop down list for duration when adding | The system displays a drop down with relevant durations with a film to choose from | **Pass** |
| FR34 | The system links club rep with club | The system links the registered club member with a specified club | **Pass** |

**QoS Testing**

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| Test Case | Expected Result | Actual Result | Pass/Partial/Fail |
| 1 | The system must be capable of supporting up to 300 seat capacity in the cinema | The system is full capable of supporting up to 300 seats | **Pass** |
| 2 | The system must be capable of dealing with up to 2,500 bookings in any day | The system is capable of dealing with up to 2,500 bookings | **Pass** |
| 3 | The system MUST respond to every mouse click in less than one second for 99% of all mouse click events | The system responds in under one second to all events, providing a good internet connecting is evident | **Pass** |
| 4 | The system MUST be capable of handling 10 simultaneous requests for advance booking per minute | Providing a good internet connection, the system is capable | **Partial** |
| 5 | The system MUST be available for 24 hours a day, 365 days of the year | Currently this is partial as if it were to be deployed, it would then be available 24/7 | **Partial** |
| 6 | The system MUST provide an understandable user interface for a variety of students including UK and international students, and those with mild visual impairments such as colour blindness. | The system supplies easy to read clear text with colour blindless friendly colours and fonts, however no language change option for international students | **Partial** |
| 7 | The system MUST monitor and adapt energy consumption wherever possible to promote a sustainable, carbon-neutral approach to system performance in line with the UWE sustainability strategy | Result would change to pass if deployable, currently running on a server locally | **Partial** |
| 8 | The systems MUST comply with GDPR and other legal requirements when dealing with personal data. | Database is stored locally, because its not deployed means data is not accessible to anyone, any data stored is test data that stored on a local machine | **Pass** |

**Reflections:**

Upon reflection, the testing has demonstrated confidence in the system that it fulfils initial objectives and formalised functional requirements provided by the client specification. Although booking is partial and aimed to be fully complete before the 5th, bugs were found within testing which were then feedback to the team and fixed before this document was finalised. All ‘must do’ requirements were met and given a pass; however, a small amount of must do requirements were recorded as partial because there was evidence of the test cases being met however still a work in progress. Won’t do requirements were not tested as the result was pre-empted from the beginning. Quality of assurance testing also gave confidence in the system as there were no findings of failure in this section, all tests recorded as either pass or partial. Overall, considering there was only 3 of us who worked on this project out of the initial five, the testing has given us as team feedback on what could be approved upon that we were not aware of before; however, it has also reassured that the system is functional and works as intended.