

**UFCF8S-30-2**

**Advanced Software Development 22sep 1**

**Part-2 Task 6: Test Cases**

**James Lear - Practical - CP1 03 Thursday 1430-1830**

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**Group 4**

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**KEY:**

**Booking Staff**

**Admin & Manager**

**Manager**

**All**

**View Bookings**

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	Entering a non-integer data type into Search entry-field returns an error message.	Abcdefg.32s%	Error message displays telling the user they entered wrong syntax.	PASS. As Expected.
2	Entering an integer length not equal to 6 returns an error message.	54321	Error message displays telling the user must be 6 integers.	PASS. As Expected.
3	If valid booking reference syntax and booking doesn't exist, returns appropriate error	612345	Error message displays telling the user booking does not exist.	PASS. As Expected.
4	Searching a valid booking reference for a different cinema's booking returns appropriate error	225899	Error message displays telling the user booking does not exist.	PASS. As Expected.
5	Searching a valid booking reference for user's cinema returns booking.	404343	Displays selected booking in tree view.	PASS. As Expected.
6	Clicking reset after searching a booking, loads all the cinema's bookings	Click reset	Tree view resets to displaying all cinema bookings.	PASS. As Expected.
7	Searching a valid booking reference in any cinema returns booking.	225899	Displays selected booking in tree view.	PASS. As Expected.
8	Changing city automatically updates cinema to first cinema option of city	Click city Bristol option.	Cinema options update for all Bristol cinemas.	PASS As Expected.

9	Clicking view button returns all bookings for selected cinema	Click view	Tree view outputs all bookings at selected cinema.	PASS As Expected.
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### Create Booking

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	When create booking is loaded, date, listing & shows are appropriately updated for user's cinema & current date.	Load create booking from dashboard	Listings and shows display current date's listings and shows.	PASS. As Expected.
2	If user changes date, the listings & shows automatically update dependent on user's cinema and first listing selected.	Change date to when listing is airing at user's cinema.	Listing option menu updates with all listings, show option menu updates dependent on selected listing.	PASS. As Expected.
3	Change date to where no listing is aired for user's cinema.	Change date	Listing & Show option menu's display that no listing or show is airing	PASS. As Expected.
4	Changing a listing automatically updates show options	Change listing	Show option menu displays all shows for selected listing.	PASS. As Expected.
5	When create booking is loaded, listings & shows are updated based on the selected city & cinema & date chosen.	Load create booking from dashboard	Listing and shows display current dates listings and shows for cinema selected.	PASS. As Expected.
6	When city is updated, cinema updates automatically which updates listings & shows based on date & cinema dynamically.	Change city to Bristol.	Listing and shows display selected date listings and shows for cinema selected which was updated.	PASS. As Expected.
7	When cinema is updated, listings & shows automatically update based on cinema & date dynamically.	Change cinema in Bristol.	Listing and shows display selected dates listings and shows for cinema selected which was updated.	PASS. As Expected.
8	When date is changed, listings & shows automatically update	Change date	Listings and shows display selected dates listings and	PASS. As Expected.

	based on date & cinema dynamically.		shows for cinema selected.	
9	Changing a listing automatically updates show options	Change listing	Show option menu displays all shows for selected listing.	PASS. As Expected.
10	Date cannot be before current date	Try change date to before current date	Won't be able to select a date before current date.	PASS. As Expected.
11	Booking when no seat type is selected.	Click Book Now with no seat type selected.	Error message telling user no seat type is selected.	PASS. As Expected.
12	Booking when no show is selected	Click Book Now with no shows airing on a date for a cinema.	Error message telling user that no shows are airing.	PASS. As Expected.
13	Booking when no listing is selected (no show is also selected due to dependencies).	Click Book Now with no listings airing on a date for a cinema.	Error message telling user that no shows are airing.	PASS. As Expected
14	Booking a specific number of seats and seat type where show is full. (VIP)	Click Book Now with 5 VIP seats for a show with 4 VIP seats available	Error message telling user no seats are available.	PASS. As Expected.
15	Booking a specific number of seats and seat type where show is not full. (VIP)	Click Book Now with 5 VIP seats for a show with 5 VIP seats available	Success message telling user seats are available and takes them to customer information page.	PASS. As Expected.
16	Booking a specific number of seats and seat type where show is full. (Upper)	Click Book Now with 5 Upper seats for a show with 4 Upper seats available	Error message telling user no seats are available.	PASS. As Expected.
17	Booking a specific number of seats and seat type where show is not full. (Upper)	Click Book Now with 5 Upper seats for a show with 5 Upper seats available	Success message telling user seats are available and takes them to customer information page.	PASS. As Expected.
18	Booking a specific number of seats and seat type where show is full. (Lower)	Click Book Now with 5 Lower seats for a show with 4 Lower seats available	Error message telling user no seats are available.	PASS. As Expected.
19	Booking a specific number of seats and seat type where show is not full. (Lower)	Click Book Now with 5 Lower seats for a show with 5 Lower seats available	Success message telling user seats are available and takes them to customer information page.	PASS. As Expected.
<b>Customer details page</b>				

20	After booking info is verified, customer information page should display booking details correctly next to customer entry fields.	Fill out booking info page with valid parameters.	Booking info displays successfully on page.	PASS. As Expected.
21	Clicking book button with null values in customer details entry fields.	Click Book.	Error message telling user that customer details must be filled out correctly.	PASS. As Expected.
22	Clicking back to dashboard does not update any object or database with information from booking page	Click Back to dashboard	Goes back to dashboard smoothly with no booking info data retained or saved.	PASS. As Expected.
23	Clicking book after valid parameters have been entered in customer details page. Database & objects update appropriately appending new booking information.	Click Book.	Success message telling user booking has been successful and prints it in terminal to emulate a physical printer.	PASS. As Expected.

### Cancel Booking

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
	user finds the correct input fields		admins and managers have all the input fields  booking staff doesn't have city and cinema fields	PASS. As Expected.
	user chooses a city with no cinemas	city choice: Liverpool	cinemas field shows "no cinemas"	PASS. As Expected.
	user chooses a cinema with no listings on date	city choice: london cinema choice: id 4 date: 2022-01-13	listings field shows "no listings"	PASS. As Expected.
	user chooses a listing with no shows	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4	shows field shows "no shows"	PASS. As Expected.

	user chooses a show with no bookings	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 show: 12:00	bookings table appears and its empty	PASS. As Expected.
	user chooses a booking to delete but doesn't enter email or card details	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 show: 08:00 email: card:	show error that says "email does not match any records"	PASS. As Expected.
	user chooses a booking to delete but doesn't enters wrong email	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 show: 08:00 email: fjkqwjo card:	show error that says "email does not match any records"	PASS. As Expected.
	user chooses a booking to delete but enters wrong last 4 digits for card	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 show: 08:00 email: y@jfk card: 412980	show error that says "card info is wrong"	PASS. As Expected.
	user chooses correct data everywhere and enters correct email and card	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 show: 08:00 email: y@jfk card: 1234	success message that says "booking successfully cancelled" and goes back to dashboard	PASS. As Expected.
	user uses the search button to search for a booking and enters an incorrect booking reference	74398210749012	error message that says "not 6 digits"	PASS. As Expected.
	user uses the search button to search for a booking and enters a booking reference not in the database	123123	error message that says "booking not found"	PASS. As Expected.
	user tries to search for a booking outside of their	446162	error message that says "booking not found"	PASS. As Expected.

	cinema and the booking exists			
	user tries to search for a booking outside of their cinema and the booking exists	431254	booking appears	PASS. As Expected.
	user tries to search for a booking in their cinema and the booking exists	413254	booking appears	PASS. As Expected.
	user changes city, cinema, date or listing	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 show: 08:00 city choice: Bristol	all of the following fields gets update	PASS. As Expected.

### View Film Listings

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	User's cinema's film listings all display in tree view when loaded	Enter the page from dashboard	User's cinema's film listings all display in tree view	PASS. As Expected.
2	Changing city automatically updates cinema to first cinema option of city	Click city Bristol option.	Cinema options update for all Bristol cinemas.	PASS As Expected.
3	Clicking view button returns all listings for selected cinema	Click view	Tree view outputs all listings at selected cinema.	PASS As Expected.
4	Clicking a listing displays small tree view box of all showings for listing selected.	Click a listing	Tree view outputs selected listing's show info.	PASS As Expected.

### Add listing

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	All the city options are loaded into the "choose city" options menu according to the cities stored in the database.	Selecting the city option menu	All of Horizon Cinemas city locations are shown as options in the option menu	PASS. As Expected.
2	Changing the selected city changing the cinema options according to the new city.	Changing city from "Birmingham" to "Bristol"	Cinema options change dynamically from the cinemas in Birmingham (cinema id 2) to the cinema options in Bristol (cinema ids 1 and 5)	PASS. As Expected.
3	User can only select dates including and after the current date	Trying to select a date before the current date	Program doesn't let user select the date and doesn't change the date input field	PASS. As Expected.
4	Adding a listing to a cinema	London   cinema id: 4 address: 21 Spencer Rd, CH3Z 1CV   Fight Club   06/01/2021	Success message: "Successfully Added Listing" is shown to the user. Listing is added to that cinema and stored in the database	PASS. As Expected.

### Remove Listing

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	All the city options are loaded into the "choose city" options menu according to	Selecting the city option menu	All of Horizon Cinemas city locations are shown as options	PASS. As Expected.



	the cities stored in the database.		in the option menu	
2	Changing the selected city changing the cinema options according to the new city.	Changing city from "Birmingham" to "Bristol"	Cinema options change dynamically from the cinemas in Birmingham (cinema id 2) to the cinema options in Bristol (cinema ids 1 and 5)	PASS. As Expected.
3	User can only select dates including and after the current date	Trying to select a date before the current date	Program doesn't let user select the date and doesn't change the date input field	PASS. As Expected.
4	Selecting a cinema and a date dynamically displays the listings for that cinema and date	"Birmingham"   cinema_id: 2...   2023-01-07	"listing_id: 23 date 2023-01-07 film: Jurassic Park" should be dynamically added as a listing in "Select listing" options menu	PASS. As Expected.
5	Selecting a listing dynamically displays the shows related to that listing	listing_id: 4...	The show time "20:41:55" should be added to the "Select show" options menu	PASS. As Expected.
6	Removing a listing using "remove listing" button	"Birmingham"   cinema_id: 2...   2023-01-15   listing_id: 4	Success message "Successfully Removed Listing." should be shown and the listing is removed from the database	PASS. As Expected.
7	Removing a show using "remove show" button	"Bristol"   cinema_id: 1...   2023-01-13   listing_id: 1   20:41:41	Success message "Successfully Removed Show." Should be shown and the show should be removed	PASS. As Expected.

8	Removing a show with bookings attached to it refunds all the bookings full price and removes the show	"Bristol"   cinema_id: 1...   2023-01-13   listing_id: 1   20:40:23	Success message should be shown, all bookings attached to the show should be refunded and the show should be removed	PASS. As Expected.
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### Update listing

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	All the city options are loaded into the "choose city" options menu according to the cities stored in the database.	Selecting the city option menu	All of Horizon Cinemas city locations are shown as options in the option menu	PASS. As Expected.
2	Changing the selected city changing the cinema options according to the new city.	Changing city from "Birmingham" to "Bristol"	Cinema options change dynamically from the cinemas in Birmingham (cinema id 2) to the cinema options in Bristol (cinema ids 1 and 5)	PASS. As Expected.
3	User can only select dates including and after the current date	Trying to select a date before the current date	Program doesn't let user select the date and doesn't change the date input field	PASS. As Expected.
4	Any listings at the selected cinema on the select date are dynamically loaded into the "select listing" option menu	London   cinema_id: 4...   06/01/2023	"listing_id: 21 date: 2023-01-06 film: Fight Club" to be dynamically added as an option for "select listing"	PASS. As Expected.

5	Select listing button takes user to next page, showing current listing details and populating input fields	listing_id: 21 date: 2023-01-06 film: Fight Club   Select listing	Choose film option menu should have a default value of "Fight Club" and select date should have a default value of 2023-01-06. All the original listing details should be correctly displayed	PASS. As Expected.
6	Changing a listings film with "update listing" button	Changing listings film from "Fight Club" to "1917" and pressing "update listing"	The selected listing should have its film changed to be "1917 and the date should remain the same	PASS. As Expected.
7	Changing a listings date with "update listing" button	2023-01-07   update listing	The listings date should be changed to 2023-01-07 and the film should remain the same	PASS. As Expected.
8	Changing a listings date and film with "update listing" button	"Joker"   2023-01-15	The listings film should be changed to "Joker" and the date should change to 2023-01-15	PASS. As Expected.

### Generate Report

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	User entering an end date before the start date and attempts to	End date before start date and clicking each button.	Error message displays to user telling them end-	PASS. As Expected.

	generate a report returns error.		date cannot be before start-date	
2	User enters appropriate dates and clicks option 1 to generate number of bookings per listing at cinema selected in option menu.	Start:2022-01-01 End:2022-01-06	Tree view displays a count of bookings for each listing airing at the cinema between the two days selected.	PASS. As Expected.
3	User enters appropriate dates and clicks option 2 to view all cinemas total revenue between two days.	Start:2022-01-01 End:2022-01-06	Tree view displays all cinemas and their total revenue	PASS. As Expected.
4	User clicks film revenue to display every film in the systems total revenue	Click film revenue	Tree view displays all films and their revenue	PASS. As Expected.
5	User enters appropriate dates & cinema then clicks to view number of staff bookings to see how many bookings a staff member is responsible for.	Click staff number of bookings	Tree view displays all staff members at selected cinema and the number of bookings they have done.	PASS. As Expected.

### Add new show

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	user finds the correct input fields		admins and managers have all the input fields  booking staff doesn't have city and cinema fields	PASS. As Expected.
2	user chooses a city with no cinemas	city choice: Liverpool	cinemas field shows "no cinemas"	PASS. As Expected.
3	user chooses a cinema with no listings on date	city choice: london cinema choice: id 4 date: 2022-01-13	listings field shows "no listings"	PASS. As Expected.
	user chooses all data correctly and clicks add show	city choice: Birmingham cinema choice: id 2	success message that says	PASS. As Expected.

		date: 2022-01-07 listing: 4 time: 8:00	"successfully added show"	
4	user chooses all data correctly and clicks add show, but the cinema has all screens with 4 shows	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 time: 8:00	Error message that says "no available screens"	PASS. As Expected.
5	user changes city, cinema, date or listing	city choice: Birmingham cinema choice: id 2 date: 2022-01-07 listing: 4 city choice: Bristol	All of the following fields gets update	PASS. As Expected.

#### Add New Cinema

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	User can only enter numerical values for the number of screens	hst (in number of screens)	Error message "Please enter an integer between 1-6." And new cinema is not added	PASS. As Expected.
2	All the city options are loaded into the "choose city" options menu according to the cities stored in the database.	Selecting the city option menu	All of Horizon Cinemas city locations are shown as options in the option menu	PASS. As Expected.
3	"Add cinema" button creates a new cinema at the specified city	"Exeter"   "67 Sidwell St, EX5V 8CA"	Success message "Successfully Added Cinema" should be shown. New cinema should be created and added to the database with the specified	PASS. As Expected.

			inputs and a unique cinema id	
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#### Add New City

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	User can only input numerical values for a cities morning price	asd	Error message "Enter numerical values for city prices" is shown and new city is not added	PASS. As Expected.
2	User can only input numerical values for a cities afternoon price	fgh	Error message "Enter numerical values for city prices" is shown and new city is not added	PASS. As Expected.
3	User can only input numerical values for a cities evening price	jkl	Error message "Enter numerical values for city prices" is shown and new city is not added	PASS. As Expected.
4	"Add city" button creates a new city	"Exeter"   12   14   16	Success message "Successfully added city." should be shown. New city should be added with the values specified in the input fields	PASS. As Expected.

#### Add New Film

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
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1	User cannot add new film without filling any input fields		Error message "Please enter valid rating (1-10), year (1800-2023) & duration (20-400)." Should be shown. No film should be added	PASS. As Expected.
2	User can only enter numerical values for film rating	asd (in film rating)	Error message should be shown, and new film should not be added	PASS. As Expected.
3	User can only enter numerical values for film year	fgh (in film year)	Error message should be shown, and new film should not be added	PASS. As Expected.
4	User can only enter numerical values for film duration	jkl (in film duration)	Error message should be shown, and new film should not be added	PASS. As Expected.
5	"Add film" button creates new film according to user inputs	"Rocky"   8   "Action"   2003   16   123   "Lorem ipsum"   "Christian Bale"	Success message "Successfully Added Film." Should be shown. Film with all the specified values should be added.	PASS. As Expected.
6	User cannot add a film that already exists	"Rocky"   8   "Action"   2003   16   123   "Lorem ipsum"   "Christian Bale"	Error message is shown, and film is not added	PASS. As Expected.

### **Add New User**

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	User enters a password less than the minimum length.	Abc	Error message displays to user outputting that the password must be at least 5 characters.	PASS. As Expected.
2	User enters a username less than the minimum length.	Abc	Error message displays to user that username must be at least 5 characters.	PASS. As Expected.
3	Adding a user with loaded city and cinema	Enter a suitable username and password and click add user. "tester" "testerpassword"	Account is created in selected cinema. Success message displays to user that account has been created.	PASS. As Expected
4	Adding a user after changing cinema in loaded city	Enter a suitable username and password and click add user. "testerr" "testerpassword"	Account is created in selected cinema. Success message displays to user that account has been created.	PASS. As Expected



5	Adding a user with changed city and auto-filled cinema	Enter a suitable username and password and click add user. "testerrr" "testerpassword"	Account is created in selected cinema. Success message displays to user that account has been created.	PASS. As Expected
6	Adding a user with changed city and cinema	Enter a suitable username and password and click add user. "testerrrr" "testerpassword"	Account is created in selected cinema. Success message displays to user that account has been created.	PASS. As Expected

### Login System

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	Any type of user can use their user id and password to login to their account	3   ""	Success message "You have successfully logged in." should be shown and the user should be logged in and taken to the dashboard	PASS. As Expected.
2	If a user uses the wrong password for a user_id they shouldn't be logged in	3   "asd"	Error message "Incorrect user_id or password." Should be shown and user shouldn't be logged in	PASS. As Expected.

3	User shouldn't be logged in if they leave both inputs null	""   ""	Error message "user doesn't exist." Should be shown and user shouldn't be logged in	PASS. As Expected.
4	User shouldn't be logged in if they leave user_id null	""   "asd"	Error message "user doesn't exist." Should be shown and user shouldn't be logged in	PASS. As Expected.
5	User shouldn't be able to use a user_id that doesn't exist	4   ""	Error message "user doesn't exist." Should be shown and user shouldn't be logged in	PASS. As Expected.

### Dashboard

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	Logging in as booking staff displays appropriate buttons (create,view,cancel booking and view film listings)	Log in as booking staff member	Appropriate buttons are all on dashboard for only booking staff. Other staff levels should not show.	PASS. As Expected.
2	Clicking on all booking staff buttons displays appropriate page and widgets	Click create/view/cancel bookings & view film listings	Takes user to selected page and Appropriate widgets on page.	PASS. As Expected.
6	Logging in as admin displays appropriate buttons (add,remove,update listing, generate report, add new show)	Log in as Admin member	Appropriate buttons are all on dashboard for Admin as well as booking staff buttons. Manager	PASS. As Expected

			buttons should not show.	
7	Clicking on all booking staff pages displays appropriate page and widgets with city & cinema.	Click Create/View/Cancel Bookings & View film listings	Takes user to selected page and Appropriate widgets are on page.	PASS. As Expected.
8	Clicking on each admin page displays the page correctly with appropriate widgets.	Click Add/Remove/Update listing, Generate report and add show	Takes user to selected pages and Appropriate widgets are on page.	PASS. As Expected.
7	Logging in as admin displays appropriate buttons (add cinema/city/film, add user)	Log in as Manager	Appropriate buttons are all on dashboard for Manager as well as Admin & Booking staff buttons.	PASS. As Expected.
8	Click on all admin & booking staff pages displays appropriate page and widgets with city & cinema	Click the first 9 buttons on dashboard.	Takes user to selected pages and Appropriate widgets are on page.	PASS. As Expected.
9	Clicking on each manager page displays the page correctly with appropriate widgets.	Click Add new city/cinema/film/user	Takes user to selected pages and Appropriate widgets are on page.	PASS. As Expected
10	Clicking back to dashboard on every page takes user back to dashboard correctly	Click back to dashboard on every page.	Takes user back to dashboard.	PASS. As Expected.

### Concurrency checks

Test Case #	Description	Test dataset/Input	Expected Output	Actual Output
1	If a manager adds a new user in one app session, another app session should be able to log in with the new user	Session 1: Adds new user  Session 2: Logs in with the new user	Log in successful	PASS. As Expected.
2	If an admin adds a new listing in one app session, another app	Session 1: Adds new listing	Listing shows in booking menu	PASS. As Expected.

	session should be able to view the listing everywhere	Session 2: Able to book for the listing		
3	If an admin adds a new show in one app session, another app session should be able to view the show everywhere	Session 1: Adds new listing  Session 2: Able to book for the listing	Show available in booking menu	PASS. As Expected.
4	If a booking was done in one session it should affect number of seats in another session	Session one: books  Session 2: lesser seats for the show	Number of bookings is decreased	PASS. As Expected.
5	If a booking was cancelled in one session it should affect number of seats in another session	Session one: books  Session 2: lesser seats will be available again	Number of bookings is increased	PASS. As Expected.