

Disclaimer : Dependencies are left as empty as they might be a subject to modification later on in the project :

UC Name	<i>ADD NEW BOOK</i>
Summary	<i>Enter a new book information into the database, making it available for sale or further management</i>
Dependency	
Actors	<i>Primary Actor – Bookstore Manager Secondary Actor – Bookstore Database</i>
Preconditions	<ul style="list-style-type: none"> - <i>The system is running accordingly</i> - <i>Database should be functional</i> - <i>The user has logged in into the system</i> - <i>The user needs to have the necessary permissions or roles</i>
Description of the Main Sequence	<ul style="list-style-type: none"> ● <i>Step 1: Manager clicks on “Add New Book” option</i> ● <i>Step 2: Manager will be shown a window containing data fields relevant to the book information which he is obliged to fill up to successfully add a book</i> ● <i>Step 3: System validates the information if there are any errors or inconsistencies</i> ● <i>Step 4 : Manager confirms the action after reviewing it</i> ● <i>Step 5 : The System adds the book into the database and gives feedback to the user if the action has been successful through a popup message</i>
Description of the Alternative Sequence	<p><i>Can be any of the following : Invalid Input, System Error, Duplicate Book Entry</i></p> <ul style="list-style-type: none"> ● <i>Step 1 : Step 1: Manager clicks on “Add New Book” option</i> ● <i>Step 2: Manager will be shown a window containing data fields relevant to the book information which he is obliged to fill up to successfully add a book</i> ● <i>Step 3: System validates the information if there are any errors or inconsistencies</i> ● <i>Step 4 : System warns the Manager with a pop up message about the alternative outcome and hints at the problem/problems</i>

Nonfunctional requirements	<p><i>Response Time: The system should add the new book to the database and confirm the action to the user within a reasonable time</i></p> <p><i>Access Control: Only authenticated and authorized users (like administrators or managers) should be able to add new books to the system</i></p> <p><i>User Interface: The interface for adding a new book should be intuitive and easy to use. It should provide clear fields for entering book information like title, author, ISBN, price, etc.</i></p> <p><i>Modifiability: It should be easy to modify the system to add new fields for book information or to change the way book information is handled</i></p> <p><i>Security: The system should ensure that only authorized users can add books. It should also protect sensitive information such as book supplier details.</i></p>
Postconditions	<p><i>Book has been added to the system and it is available for costumers to purchase. Database has been updated with this new book and it's information</i></p>

UC Name	<i>REMOVE BOOK</i>
Summary	<i>Removing an existing Book in the E-showcase and database</i>
Dependency	
Actors	<i>Primary Actor – Bookstore Manager Secondary Actor – Bookstore Database</i>
Preconditions	<ul style="list-style-type: none"> - <i>The system is running accordingly</i> - <i>Database should be functional</i> - <i>The user has logged in into the system</i> - <i>The user needs to have the necessary permissions or roles</i>
Description of the Main Sequence	<ul style="list-style-type: none"> ● <i>Step 1: Manager clicks on “Remove Book” option</i> ● <i>Step 2: Manager will be shown a popup window asking to Insert the book name, author and publisher</i> ● <i>Step 3 : Manager confirms the action after reviewing the input</i> ● <i>Step 4 : The System removes the book from the database and gives feedback to the user if the action has been successful through a popup message</i>
Description of the Alternative Sequence	<p><i>Can be any of the following : Invalid Input, System Error,</i></p> <ul style="list-style-type: none"> ● <i>Step 1 : Step 1: Manager clicks on “Remove Book” option</i> ● <i>Step 2: Manager will be shown a popup window asking to Insert the book name, author and publisher</i> ● <i>Step 3 : Manager confirms the action after reviewing the input</i> ● <i>Step 4: System validates the information if there are any errors or inconsistencies</i> ● <i>Step 5 : System warns the Manager with a pop up message about the alternative outcome and hints at the problem/problems</i>

Non functional requirements	<p><i>Response Time: The system should add the new book to the database and confirm the action to the user within a reasonable time</i></p> <p><i>Access Control: Only authenticated and authorized users (like administrators or managers) should be able to remove books from the system</i></p> <p><i>User Interface: The interface for removing books should be intuitive and easy to use. It should provide clear fields for entering book information like title, author and publisher.</i></p> <p><i>Modifiability: It should be easy to modify the system to add new fields for the information required to remove a book</i></p> <p><i>Security: The system should ensure that only authorized users can remove books</i></p>
Postconditions	<p><i>Book has been removed the system and it is not available for costumers to purchase anymore or to be found through search . Database has been updated and this book is no longer in it.</i></p>

UC Name	<i>EDIT BOOK CHARACTERISTICS</i>
Summary	<i>User is able to edit the characteristics or details of a book in the bookstore's inventory/database.</i>
Dependency	
Actors	<i>Primary Actor – Bookstore Manager Secondary Actor – Bookstore Database</i>
Preconditions	<ul style="list-style-type: none"> - <i>The system is running accordingly</i> - <i>Database should be functional</i> - <i>The user has logged in into the system</i> - <i>The user needs to have the necessary permissions or roles</i>
Description of the Main Sequence	<ul style="list-style-type: none"> ● <i>Step 1: Manager clicks on “Edit” option</i> ● <i>Step 2: Manager will be shown a window containing data fields of the book information which he can edit to his need</i> ● <i>Step 3: System validates the information if there are any errors or inconsistencies</i> ● <i>Step 4 : Manager confirms the action after reviewing it</i> ● <i>Step 5 : The System saves the book into the database with the new edited information and gives feedback to the user if the action has been successful through a popup message</i>
Description of the Alternative Sequence	<p><i>Can be any of the following : Invalid Input, System Error</i></p> <ul style="list-style-type: none"> ● <i>Step 1: Manager clicks on “Edit” option</i> ● <i>Step 2: Manager will be shown a window containing data fields of the book information which he can edit to his need</i> ● <i>Step 3: System validates the information if there are any errors or inconsistencies</i> ● <i>Step 4 : Manager confirms the action after reviewing it</i> ● <i>Step 5 : System warns the Manager with a pop up message about the alternative outcome and hints at</i>

	<i>the problem/problems</i>
Non functional requirements	<p><i>Response Time: The system should edit information of the database and confirm the action to the user within a reasonable time</i></p> <p><i>Access Control: Only authenticated and authorized users (like administrators or managers) should be able to edit book characteristics</i></p> <p><i>User Interface: The interface for editing books information should be intuitive and easy to use. It should provide clear fields for editing book information</i></p>
Postconditions	<i>Book information has been edited the system and it is available for costumers to purchase with updated information. Database has been updated.</i>

UC Name	<i>CHECK BOOK STATISTICS</i>
Summary	<i>User is shown the statistics of a book in the bookstore's inventory/database.</i>
Dependency	
Actors	<i>Primary Actor – Bookstore Manager/Admin Secondary Actor – Bookstore Database</i>
Preconditions	<ul style="list-style-type: none"> - <i>The system is running accordingly</i> - <i>Database should be functional</i> - <i>The user has logged in into the system</i> - <i>The user needs to have the necessary permissions or roles</i>
Description of the Main Sequence	<ul style="list-style-type: none"> • <i>Step 1: Manager navigates to Statistics page</i> • <i>Step 2: Manager will be shown a list of books which he can right click, press “view statistic”</i> • <i>Step 3: Manager is redirected to a page containing all the statistics of the book, including revenue generated, sales etc</i>
Description of the Alternative Sequence	<p><i>System Error or Database Error</i></p> <ul style="list-style-type: none"> • <i>Step 1: Manager navigates to Statistics page</i> • <i>Step 2: Manager will be shown a list of books which he can right click, press “view statistic”</i> • <i>Step 3: Manager is redirected to a page containing all the statistics of the book, including revenue generated, sales etc otherwise if there's a system error or Database error a window pops up informing the user with the current problem</i>
Non functional requirements	<p><i>Response Time: Response time should be reasonable depending on the book and the information</i></p> <p><i>Access Control: Only authenticated and authorized users (like administrators or managers) should be able to check the book statistics</i></p>

	<i>User Interface: Interface should help the manager understand the statistics with the help of graphs, tables, charts etc.</i>
Postconditions	<i>Statistics page works as intended</i>

UC Name	<i>CHECK WAREHOUSE INVENTORY</i>
Summary	<i>User can navigate through the Inventory of the bookstore</i>
Dependency	
Actors	<i>Primary Actor – Bookstore Manager/Admin Secondary Actor – Bookstore Database</i>
Preconditions	<ul style="list-style-type: none"> - <i>The system is running accordingly</i> - <i>Database should be functional</i> - <i>The user has logged in into the system</i> - <i>The user needs to have the necessary permissions or roles</i>
Description of the Main Sequence	<ul style="list-style-type: none"> • <i>Step 1: Manager navigates to Inventory page</i> • <i>Step 2: Manager will be shown a list of products with them being in an ascending order based on stock</i> • <i>Step 3: Every time a product is at a “critical” stock level the user shall be notified</i>
Description of the Alternative Sequence	<p><i>System Error or Database Error</i></p> <ul style="list-style-type: none"> • <i>Step 1: Manager navigates to Inventory page</i> • <i>Step 2: Error message pops up with the corresponding error code (database or system error)</i> • <i>Step 3: Error is filed and sent to the maintenance team</i>
Non functional requirements	<p><i>Response Time: Response time should be reasonable depending on the amount of products</i></p> <p><i>Access Control: Only authenticated and authorized users (like administrators or managers) should be able to access the inventory page</i></p> <p><i>User Interface: Interface should help the manager and make it easier to understand Inventory</i></p>

Postconditions	<i>Inventory page works as intended</i>