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| Use Case Element | Description |
| Use Case Number | 1.1 |
| Application | Library Management System |
| Use Case Name | Login/Signup System |
| Use Case Description | To make an account on the website or to login. |
| Primary Actor | * Customer   Administration |
| Precondition | * The user should open our website. * The user should click on the login or signup option.   The user should enter their details. |
| Postcondition | * The home page of the website consisting of all the books available in the library. * The customer can then proceed to issue the book or read it online.   The customer can also look at the profile. |
| Trigger | The customer enters their details and clicks on login/signup. |
| Basic Flow | 1. The user opens the website. 2. The user enters their username and password and clicks on login if he/she already has an account. 3. In case the user doesn’t have an account, they click on “signup” option. 4. The user then enters their details and clicks on signup option.   Once the user has logged in, the home page of the website would be visible. |
| Alternate Flows | **2A1:** The user forgets their password.   * In case the user forgets his/her password there will be an option using forgot password using which the user can change their password.   **4A1:** The user entered wrong details   * In case the user entered wrong details, there should be an edit option provided in the “profile” section.   **5A1:** The homepage doesn’t appear once the user has logged in.  The admin should look into the maintenance of the website and should avoid website crashes. |
| Use Case Number | 1.2 |
| Application | Library Management System |
| Use Case Name | Home Page System |
| Use Case Description | To access Search Books and other features of the System. |
| Primary Actor | * Customer   Administration |
| Precondition | * The user should be logged in to his/her account |
| Postcondition | * The user can proceed to any of the pages below: * Search Page * Borrow Page * Payment Page * Account Page * Calendar Page * Feedback & Query Page |
| Trigger | The customer clicks the icon which leads to the respective page. |
| Basic Flow | 1. The homepage shows the search bar.    1. The user clicks on the search bar.    2. The user enters the book / author’s name.    3. The user gets the Book card.       1. The user can see the availability of the book.       2. The user can click on the borrow option.       3. The user will be directed to the payment page.       4. The user will get to the payment gateway page.       5. The user will see confirmation page if the payment was successful.       6. The user will get read online copy or he can show the confirmation page to the admin and borrow book from the library according to wish. 2. The homepage shows the side bar.    1. The user clicks on the account icon.   2.1.1 The profile and information page of the user is shown.   * 1. The user clicks on the calendar icon.      1. The user sees the list of books to returned and dues to pay on that date.      2. The user selects the search icon.      3. The user enters a date.      4. The user sees the list of books and due that were on that date.   2. The user clicks on the feedbacks or query icon.      1. The user clicks the query option.         1. The user enters the query.         2. The user clicks the search icon.         3. The user sees the related solutions available.         4. The user submits his/her query as a new query if he/she couldn’t find satisfactory solutions.      2. The use clicks the feedback option.         1. The user enters the feedback.         2. The user clicks the submit button.         3. The user clicks on the filter options.         4. The user gives the filters.         5. The user sees the list of filtered feedbacks by other members. |
| Alternate Flows | **1.2A1:** The user entered a name that is incorrect, or the book that is searched isn’t available in the library.   * In case the user will get no book cards. He/she will see a blank page saying ‘No Results’. The user can again try searching some other book he/she wants.   **1.34A1:** The user entered wrong transaction details.   * In case the current transaction will be cancelled and the user will be taken out of the payment gateway page back to the payment page of the system. An error message will be displayed ‘Transaction Failed’. The user can re-attempt after few mins.   **2.2.3A1:** The user entered a date that isn’t available in the database.   * In that case the user will see a blank page with message ‘No Results’, the user can try again by entering some other date he/she wants.   **2.3.1.4A1:** The query isn’t submitted.   * In that case a message ‘Query not submitted successfully’. The user can try submitting the query again.   **2.3.2.2A1:** The feedback isn’t submitted.   * In that case the user will see ‘Feedback not submitted please try again’. The user can then enter the feedback and submit again.   **2.3.2.4A1:** The user enters incorrect filters.   * In that case the user will see error message ‘No feedback found’. Then the user has to enter correct filters again.   **A1:** The current page isn’t visible.   * In that case the admin must look into it and rectify the technical fault to avoid website crashes. |
| Use Case Number | 1.3 |
| Application | Library Management System |
| Use Case Name | Account System |
| Use Case Description | To view information stored about the user. |
| Primary Actor | * Customer   Administration |
| Precondition | * The user should have logged into his/her account. * The user should navigate to the account page from the homepage. |
| Postcondition | * The user can see all the information stored in system about him/her. * The user can also logout of his/her account. |
| Trigger | * The customer clicks on the icon to go the respective page. |
| Basic Flow | 1. The user sees his/her basic information like name, number, age, etc.,. 2. The user is given option to see various information.    1. The user clicks on History of borrowed books.       1. The user sees the list of books he has borrowed from the library (including not returned).       2. The user clicks on the search icon.       3. The user enters the name of any book.       4. The list of incidents he has borrowed the book will appear.    2. The user clicks on the History of payments options.       1. The see the list of payments.       2. The user enters a date or transaction ID.       3. The user sees the payment details on the date or of that transaction ID.    3. The user clicks on list of Due Books.       1. The user sees the list of books he/she has not returned even after the due date.    4. The user clicks on list of Due Payments.       1. The user sees the list of payments that has crossed due. |
| Alternate Flows | **2.1.3A1:** The user entered the name of a book he has never borrowed.   * In that case the user sees an empty list with a message on top   ‘No Results’ . The user can enter again the name of the book he has borrowed.  **2.2.2A1:** The user entered wrong date or transaction ID   * In that case user sees an empty list with a message on top ‘No Transactions found’. The user has to re-enter correct information. |