**CSE213 CRA Report Template**

|  |  |  |
| --- | --- | --- |
| **Topic: Simulating operations of a Library management such as Public Library** | | |
| **ID: 1910282** | **Name: Md Rashid Shabab** | **User1: Reader** |
| **User2: Librarian** |
| **ID:**  **2021506** | **Name: Fahim Faisal Rhythm** | **User3: Publisher** |
| **User4: Donor** |
| **ID:**  **2022353** | **Name: Ayatullah Arefin** | **User5: Library Assistant** |
| **User6: Event manager** |
| **ID: 2030069** | **Name: Mehedi Hasan Surem** | **User7: Library Director** |
| **User8: Accountant** |

**Possible event type:**

* UIE - - user input to trigger event
* UID - - user input to be considered as data
* OP – display content (output)
* PC – prerequisite check
* VL – validation check
* VR – verification check
* DP – fetching data from file system and process it to get some calculated outcome (data processing)

|  |  |  |  |
| --- | --- | --- | --- |
| **Login/SignUp Process** | | | |
| Workflow: | Event-1 | Select login option | event type |
|  | Event-2 | A new scene will appear where there is a combobox to select the users. Options are “Library Member”, “Librarian”, “Accountant”, “Library Director”, “Event Manager”, “Library Assistant”, “Publisher”, “Donor”. A textfield for userID and password will also appear. A “Sign Up as Reader” option will also appear as well as “Login” button and “forget password” button will appear. | OP |
|  | Event-3 | Select User from the combobox | UIE |
|  | Event-4 | Fillup userID and password and select Login button. It’ll verify the userID and password. If successful it’ll login to the application.  If verification failed a notification will appear that “User Id or password is invalid” | UID, VL, VR, OP |
|  | Event-5 | If verification failed select “Forget password”. A new scene will appear where user have to fill-up his/her userID and the Email related to that userID and select send verification code. It’ll verify if the Email is related to the userID. If yes, then a verification code will be sent to the Email.  If verification failed Notification will appear that “Email doesn’t match the user ID” | OP, DP, VR,UID,UIE |
|  | Event-6 | Enter verification code to the textfield and select “change password” button. A new pop up will appear where user have to enter a new password to a textfield and also enter the same password to another textfield. | UIE, UID, |
|  | Event-7 | Select “confirm password” button to confirm new password and continue login process by entering userID and password and selecting Login button and login to the application. | UIE, UID, VL, VR, OP |
|  | Event-8 | If “Sign Up as Reader” option selected, then a new scene will appear where he/she has to fill up his/her name (first name, last name), mobile number and email in a text area, select gender from two radio buttons (male/female), select birthdate from date selector. | OP, UID, |
|  |  | After that select verify E-mail button and it’ll send a 6-digit verification code to his/her E-mail. Fill up that verification code in the textfield and select Sign Up. | UIE, UID |
|  | Event-9 | It’ll verify if the verification code matches or not. If successful it’ll Sign him/her as a Reader and Reader Dashboard will appear.  If verification failed an alert will appear that “Verification Failed” | VL, VR, OP, |

|  |  |  |  |
| --- | --- | --- | --- |
| **User1 name: Reader** | | | |
| **Goal-1** | **Description of Goal-1:** The reader will be able to request one/many books for reservation | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | if login successful, reader landing scene will be loaded | OP |
|  | event-3 | select option “Borrow Books” | UIE |
|  | event-4 | It will verify if the reader is a member or not, reserved book limit (at a time a member can borrow up to 5 books) and any book return due or not. | VR, DP |
|  | event-5 | If verification is successful, a new scene will appear with a table of books that are available to borrow will be loaded. Each book in the list will include book accession number, book title, author name and available copies. A button “Show Details” will also appear. Select a book from table and select Show Details button and book details will appear with Book title, Author names, Book accession No., Publisher name, Publishing Year, Available Copies.  if not successful, notification will be given depending on which requirement it failed to fulfil. For example, if reserved book limit is exceeding or book return is due then it’ll notify the member to return a book to borrow a new book. If reader is not a member it’ll notify that he/she is not a member yet and to apply for membership. | DP, OP |
|  | event-6 | Reader can also search a book by its title on search bar. By searching the book it’ll process the data and show a relevant list according to the search. | UID,DP |
|  | event-7 | Reader can select a book from the table and select “Request” button, it’ll verify if already reserved books are exceeding reserved book limit. If successful, request will be sent for the selected book for reservation.  If not successful, an alert will be given that they are exceeding reserved book limit. | OP,UIE,VR |
|  | event-8 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-2** | **Description of Goal-2:** Reader will be able to request library authority to add one/many specific books to the library | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | if login successful, reader landing/dashboard scene will be loaded | OP |
|  | event-3 | Select option “Request to add a Book” | UIE |
|  | event-4 | A new scene will appear where a table of already requested books will appear. The table will contain ReqID, Book title, member name (who requested the book to be added to the library), vote count and a button named “vote”. A button “Show Details” will also appear. Select a book request from table and select Show Details button and book details will appear with Book title, Author names, Book accession No., Publisher name, Publishing Year.  Reader can vote for a book to add to the library by selecting book from the table and select “vote” button. | OP, UID, DP |
|  | event-5 | Reader can also search for a book in the list if it’s already requested before and vote. If reader wants to add a book that is not requested before then they can select ‘request a new book’ button and it’ll take the user to a new scene where the reader has to specify the name of the book, author name, the publisher’s name, and publishing year. | DP, UIE, OP |
|  | event-6 | After specifying book information, select “Book request” button.  Now it will check if the book is already in the library | DP, UIE |
|  | event-7 | If book is already in book database, it’ll show a notification saying the book is already in the library.  If book is not in the database, a notification will be shown “successfully sent book add request “ | DP, OP |
|  | event-8 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-3** | **Description of Goal-3:** Reader will be able to apply for membership | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | Select option “Membership” | UIE |
|  | event-2 | A new scene will appear where the reader details will be shown that includes reader name, E-mail, Contact-No., Date of Birth etc. After that 2 radio buttons will appear for membership duration. | UID, OP |
|  | event-3 | Select a membership duration (either for 6 month or 1 year) and select Apply button to apply for new library membership. | OP, UID, UIE |
|  | event-4 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE |
| **Goal-4** | **Description of Goal-4:** Reader will be able to apply to renew his/her library membership | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | if login successful, reader landing/dashboard scene will be loaded | OP |
|  | event-3 | Select option “Membership” | UIE |
|  | event-4 | A new scene will appear where the membership details will be shown that includes memberID, membership ending date, current membership plan, reader name, E-mail, Contact-No., Date of Birth etc. After that 2 radio buttons will appear for renew membership duration. | VR, OP |
|  | event-5 | Select a membership duration (either for 6 month or 1 year) and select Apply button to apply for renewing library membership. | UIE, DP |
|  | event-6 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-5** | **Description of Goal-5:** Reader will be able to search for a specific book (by author/book name) | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | if login successful, reader landing/dashboard scene will be loaded | OP |
|  | event-3 | Select option “Search Book”. | UIE |
|  | event-4 | A new scene will appear with a table of books sorted in alphabetical order by book title. Book accession number, book title, author name, publisher name, publishing year, available copies with appear in that table. A search bar will also appear where the user can search for a book by its book name (by default) or search by author or publisher name or publishing year by selecting corresponding radio button. | DP, UID, UIE |
|  | event-5 | Select search bar and type the title of the book and select search by select search button book name (by default) or search by author or publisher name or publishing year by selecting corresponding radio button. | UID, UIE |
|  | event-6 | After searching a list of relevant results will show up in the table. | DP, OP |
|  | event-7 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-6** | **Description of Goal-6:** Reader will be able to view list of borrowed books | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | if login successful, reader landing/dashboard scene will be loaded | OP |
|  | event-3 | Select “My Borrowed Books” option | UIE |
|  | event-4 | A new scene will appear, in this scene a list of borrowed books will be shown in a table. The table will contain book title, the date to return as well as remaining days and status that represents if book is returned or not. | OP, DP |
|  | event-5 | A button “Show Details” will also appear. Select a borrowed book from table and select Show Details button and book details will appear with Book title, Author names, Book accession No., Publisher name, Publishing Year, book borrowed date, book return date, remaining days etc. | OP, |
|  | event-6 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-7** | **Description of Goal-7:** Reader will be able to view upcoming events | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, reader landing/dashboard scene will be loaded | OP |
|  | event-3 | Select ‘Upcoming Events’ option will take the user to a new scene. | UIE |
|  | event-4 | In this new scene upcoming events will be shown in a table containing event ID, event name, starting date and time, ending date. A button “Show Details” will also appear. Select a Event from table and select Show Details button and event details will appear with Event name, event description, guest list, starting date & time, Ending date & time etc. Alongside this, a “interested” button will also appear in the card. | OP |
|  | event-5 | Select interested button and it’ll send a reminder email 1 day prior to that event date. | UID, DP |
|  | event-6 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-8** | **Description of Goal-8:** Reader will be able to add a book rating and review | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, reader landing/dashboard scene will be loaded | OP |
|  | event-3 | Select option “Book Review”. If you’re a member, then it’ll take you to a new scene otherwise it’ll show you a notification to be a member if you’re to add a book review. | UIE, OP |
|  | event-4 | A new scene will appear where all previously and currently borrowed books are shown in a table.  It will contain book accession number, name of the book, author name, publisher’s name, publishing year.  A combobox will also appear to choose rating and a text area for review comments and a button to add review. | OP, DP, UID |
|  | event-5 | Select a book from the table and choose a rating from a combobox (out of 5). Write comments about the book in the book review text area and select add review button. | UID,UIE |
|  | event-6 | Reader can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **User2 name:** Librarian | | | |
| **Goal-1** | **Description of Goal-1:** Librarian will be able to Approve book reservation | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | Select “Book Reservation Requests” option. It’ll take the user to a new scene. In this scene a table will appear with member ID, book accession number, available copies of that book and status (accepted or declined). | UIE,DP, OP |
|  | event-4 | Select a row from the table and select “Show Details” button to view Member (who requested) and Book details. | UIE, UID, DP,OP |
|  |  | Select a row from the table and select issue date from date picker to set issue date and same for return date. Then select “accept” to approve book reservation. Librarian can also disapprove a request by selecting that request and clicking “decline” button. |  |
|  | event-5 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-2** | **Description of Goal-2:** Librarian will be able to view and approve a new membership request also membership renewal request | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | Select “Member Request” option.  It’ll take the user to a new scene where a table of all member request will appear alongside their details (E-mail, Membership type(new/renew), Duration, Status (accepted or not)) will appear.  Select a row from the table and select “Show Details” button to view Member details (Name, contact number, E-mail, membership type, duration.) | UIE,DP, OP |
|  | event-4 | Select Accept option for new membership and it’ll generate a 6-digit unique random number from a given range as user id and 7-digit random number as password and send it to the mail of the reader.  This member id will be added to the member database.  Select Reject option will reject membership request and send a notification saying membership request rejected. | UIE , DP, OP |
|  | event-5 | Select Accept option for renewal membership and it’ll accept renewal request and update member database. It’ll send a notification that membership renewal is done successfully.  Select Reject option will reject renewal membership request and send a notification saying renewal membership request rejected. | UID, UIE, DP ,OP |
|  | event-6 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-3** | **Description of Goal-3:** Librarian will be able to view a list of borrowed books with reader details | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | Select “Borrowed Books” option and it’ll take the user to a new scene where a list of books that the members borrowed will appear in a table. It’ll contain information such as book accession number, memberID, return date and return status (returned or not). | OP, UIE |
|  | event-4 | Select a row from the table and select “Show Details” button to view Book and Member details (memberName, contact number, E-mail, date borrowed, return date, return status, book title, author, publisher name, publishing year) | UID, OP |
|  | Event-5 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. |  |
| **Goal-4** | **Description of Goal-4:** Librarian will be able to view the list of books that members requested to add to the library and generate a pdf report from it. | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | Select “’Requested Book” option and it’ll take the user to a new scene where a list of books will appear that the members requested to add. In this list ReqID, book title, author name, publisher name, publishing year, member ID, vote count, status (added or not) will appear. Alongside this a vote count will show that represents how many members voted for this book to be add to the library. | UIE, OP, DP |
|  | event-4 | Select “Generate Report” button to generate a pdf report of that list and send the pdf report to the library director. | UIE, DP, OP |
|  | event-5 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE,OP |
| **Goal-5** | **Description of Goal-5:** Librarian will be able to view the donated book list and Add books to the database | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | evet-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | Select ‘Donated Books’ option. It’ll take the user to a new scene where a list of donated books will appear along with book accession number, donor e-mail, donated copy, status (added or not).  Select a row from the table and select “Show Details” button to view Book and Donor details (donor Name, contact number, E-mail, total copies, book title, author, publisher name, publishing year) | UIE, DP, OP |
|  | event-4 | Select a row from the table and select add books button to add the selected books to the book database. It’ll check if book is already in the database if yes then it’ll update available copies otherwise it’ll add the book to the database. | UIE, UID, OP, OP |
|  | event-5 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
|  |  |  |  |
| **Goal-6** | **Description of Goal-6:** Librarian will be able to view newly published book samples sent by the publisher and request to supply books | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | Select ‘Newly Published Books’ option. It’ll take the user to a new scene where a list of book samples (book accession number, book name, number of copies the publisher can provide, price per unit) that the publisher sent will be shown. Alongside this status (requested for supply or not) will also appear. | OP, UIE, |
|  | event-4 | Select a row from the table and Enter number of copies to be supplied of that book and Select “Request Supply” button to request for supply. | UIE, OP |
|  | event-5 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-7** | **Description of Goal-7:** Librarian will be able to request for advanced salary withdrawal | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | select option for “Advanced withdrawal” and this will take the user to a new scene. | UIE |
|  | event-4 | In this scene a table will appear with previously requested applications number, Amount and date requested, status (accepted/declined) will appear. | UID, DP, OP |
|  | event-5 | Enter employee ID, withdrawal amount, requested date of withdrawal and explain reason in textarea. Select apply to apply a request for advance withdrawal.  It’ll check if the withdrawal amount is exceeding remaining current salary. If verification is successful notification will be shown that withdrawal request sent successfully.  If verification is failed notification will be shown that requested withdrawal amount is exceeding remaining current salary. | UIE, PC, VR, OP |
|  | event-6 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, OP |
| **Goal-8** | **Description of Goal-8:** Librarian will be able to apply for leave application | | event type |
| Workflow: | event-1 | Workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, librarian landing/dashboard scene will be loaded | OP |
|  | event-3 | Select a button ‘Leave Application’. | UIE |
|  | event-4 | In this scene a table will appear with previously requested applications with application number, Employee ID, Starting date, status (accepted/declined) will appear. | UIE, OP |
|  | event-5 | Enter employee ID, number of days for vacation, select starting date, select ending date and explain reason in textarea. Select apply to apply a request for leave application.  It’ll check if the Vacation limit is exceeding remaining available leave days. If verification is successful notification will be shown that leave request sent successfully.  If verification is failed notification will be shown that requested vacation days is exceeding remaining available leave days. | DP, OP |
|  | event-6 | Librarian can select “Back to Dashboard” button and be back to the dashboard scene or they can then use other features or logout of the application. | UIE, UID, DP, OP |

|  |  |  |  |
| --- | --- | --- | --- |
| **User3 name:** **Publisher** | | | |
| **Goal-1** | **Description of Goal-1:** Give a list of newly published book samples to the librarian | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | If login successful, publisher landing/dashboard scene will be loaded  If unsuccessful, login page will display “user doesn’t exist” | OP |
| event-3 | Select "Provide Books” button | UIE |
| event-4 | The scene will load a form to take input of the list of books with information such as Book 1: Book title, Author name, Publisher name, publishing year, number of copies publisher can provide, price.  Book 2: Book title, Author name, Publisher name, publishing year, number of copies publisher can provide, price.  …. | UID, VL, DP |
| Event-5 | Click the “submit” button after filling out the form. | UIE |
| Event-6 | A notification will pop up to check email for successful submission of book list.  If not, notification will be given to contact librarian. | OP |
|  | Event- 7 | Publisher will be then taken back to the dashboard scene. They can now either logout or use other features. | UIE, OP |
| **Goal-2** | **Description of Goal-2:** Get approval/disapproval from the librarian regarding supply of the books. | |  |
| Workflow | Event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
| Event-2 | If login successful, publisher landing/dashboard scene will be loaded | OP |
| Event-3 | Click the notification panel to check message whether submitted book lists are approved. | UIE |
| Event-4 | If approved, the user will receive a “congratulations” notification and be asked to check “confirmed books” button to process order for the number of books that are selected by the librarian. | OP, UIE |
| Event-5 | If not approved, message will be shown in the notification “submitted books are not required at this moment” | OP |
| Event-6 | Publisher will be then taken back to the dashboard scene. They can now either logout or use other features. | UIE, OP |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User3 name:** Publisher | | | | |
| **Goal-3** | **Description of Goal-3:** Process order placed from the librarian | | | event type |
| Workflow: | event-1 | | workflow of login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | | If login successful, publisher landing/dashboard scene will be loaded | OP |
| event-3 | | Click “confirmed books” button | UIE |
| event-5 | | The publisher will be taken to another page to create the invoice.  Attach the invoice and click “upload” | UID, UIE |
| Event-6 | | Publisher will be then taken back to the dashboard scene. They can now either logout or use other features. | UID, OP |
|  |  | |  |  |
| **Goal-4** | **Description of Goal-2:** Track the supplied books from the list provided from the librarian. | | |  |
| workflow | Event-1 | workflow of login process will be executed first | | UID, VL, VR: see WF of login |
|  | Event-2 | If login successful, publisher landing/dashboard scene will be loaded. | | OP |
| Event-3 | Click “track supply” button | | UIE |
| Event-4 | The button will take user to another scene where the page will show:  payment completion, pickup point, parcel location,  ETA. | | OP |
| Event-5 | “ETA” will show expected time to deliver above the scene  Clicking on “payment completion” will show a checkbox  Clicking on “pickup point” will show a location from where order is picked  Clicking on “parcel location” will show map with real time location of the delivery man. | | UIE, OP, DP |
|  | Event-6 | The user can then return to the landing scene and can either logout or use other features. | | UIE, OP |
|  |  |  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **User3 name:** Publisher | | | |
| **Goal-5** | **Description of Goal-5:** Receive invitation from the event manager for upcoming events. | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, publisher landing/dashboard scene will be loaded. | OP |
|  | event-3 | View notification panel. Click on button “check invites” | UIE |
|  | event-4 | The user will then be taken into another scene with details on the event such as  Event name, event details, date of event, venue, time, seats available. | OP |
|  | event-5 | The user can choose an option from the following buttons: interested, going, not going. | UIE |
|  | Event-6 | If seat is available, on clicking going, one seat will be booked and show a confirmation message as a pop up below  If unavailable, it will show “all seats are booked” | PC, DP, OP |
|  | Event-7 | The user can then return to the landing scene and can either logout or use other features. | UIE, OP |
| **Goal-6** | **Description of Goal-6:** Get feedback of the supplied books (users can rate books from different publisher) | |  |
|  | Event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
| Event-2 | If login successful, publisher landing/dashboard scene will be loaded. | OP |
| Event-3 | Click on “view feedback” button | UIE |
| Event-4 | This will take the user to a new scene with detailed feedback of the books provided from the publisher such as:  Rating, comments, no of readers engaged | OP |
| Event-5 | User will enter the book name from the given book list in the table. And then use the feedback features  Clicking on “rating” on a particular book will show user rating from a scale of 0 to 5 | UIE, DP, OP |
| Event-6 | Clicking on “comments” on a particular book will show readers thoughts and opinions on the book. | UIE, DP, OP |
|  | Event-7 | Clicking on “readers engaged” on a particular book will show number of readers that showed interest on the book, number of readers borrowed books out of the total population of the library | DP, OP, UIE |
|  | Event -8 | The user can then return to the landing scene and can either logout or use other features. | UIE, OP |

|  |  |  |  |
| --- | --- | --- | --- |
| **User3 name:** Publisher | | | |
| **Goal-7** | **Description of Goal-7:** Submit monthly report on the number of books supplied | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | If login successful, publisher landing/dashboard scene will be loaded. | OP |
| event-3 | Click on “submit report” button | UIE |
| event-4 | the user will select month from a dropdown menu. | op |
| event-5 | Click on “attach file” and there will be a preview of the URL/ file location. |  |
| Event-6 | User will then select “upload” after attaching file |  |
| Event-7 | The user can view the report after uploading by clicking on the “view report” button |  |
|  | Event-8 | The user can then return to the landing scene and can either logout or use other features. |  |
| **Goal-8** | **Description of Goal-8:** Set appointment with event manager regarding seminars to promote books | |  |
| workflow | Event-1 | workflow of login process will be executed first |  |
| Event-2 | If login successful, publisher landing/dashboard scene will be loaded. |  |
| Event-3 | Select “set appointment” button and select “event manager” from the dropdown menu |  |
| Event-4 | The user will then select date from calendar and select from time from given time slots. |  |
| Event-5 | If the date and time slot is not already booked, show a confirmation message in the notification panel as well as in the preview area in the scene “appointment created successfully”  If the given date and time slot is booked already, an error message will pop up  “Slot is booked, try another slot or day” |  |
| Event-6 | The user can then return to the landing scene and can either logout or use other features. |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **User4 name:** Donor | | | |
| **Goal-1** | 1. **Description of Goal-1:** Provide list of books to donate to the librarian | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, donor landing/dashboard scene will be loaded  If unsuccessful, login page will display “user doesn’t exist” | OP |
|  | event-3 | Click “Donate Books” button | UIE |
|  | event-4 | The scene will load a form to take input of the list of books with information such as Book 1: Book title, Author name, Publisher name, publishing year, number of copies donor will provide.  Book 2: Book title, Author name, Publisher name, publishing year, number of copies publisher can provide, price.  …. | OP |
|  | event-5 | Click the “submit” button after filling out the form. | UIE |
|  | Event 6 | A notification will pop up to check email for successful submission of book list.  If not, notification will be given to contact librarian. | OP |
|  | Event 7 | Donor will be then taken back to the dashboard scene. They can now either logout or use other features. | UIE, DP |
| **Goal-2** | **Description of Goal-2:** Receive invitation from the event manager for upcoming events | |  |
|  | Event 1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
| Event 2 | If login successful, donor landing/dashboard scene will be loaded. | OP |
| Event 3 | View notification panel. Click on message “invitation for an event” | UIE |
| Event 4 | The user will then be taken into another scene with details on the event such as  Event name, event details, date of event, venue, time, seats available. | OP |
| Event 5 | The user can choose an option from the following buttons: interested, going. | UIE |
| Event 6 | If seat is available, on clicking going, one seat will be booked and show a confirmation message as a pop up (that can be downloaded and printed as a ticket for entry).  If unavailable, it will show “all seats are booked” | UID |
|  | Event 7 | The user can then return to the landing scene and can either logout or use other features. | UIE,OP |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Goal-3** | **Description of Goal-3:** Book appointments with Library Director | | event type |
| Workflow: | event-1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login successful, donor landing/dashboard scene will be loaded. | OP |
|  | event-3 | Click “book appointment” button | UIE |
|  | event-4 | A new scene will appear where user will have to select a date and from a time slot for booking appointment from the calendar. | OP |
|  | event-5 | If the date and time slot is not already booked, show a confirmation message in the notification panel “appointment created successfully”  If the given date and time slot is booked already, an error message will pop up  “Slot is booked, try another slot or day” | DP,OP,UID |
|  | Event 6 | The user can then return to the landing scene and can either logout or use other features. | UIE, OP |
|  |  |  |  |
| **Goal-4** | **Description of Goal-4:** Sort list of books according to their demand in the library | |  |
|  | Event 1 | workflow of login process will be executed first | UID, VL, VR: see WF of login |
| Event 2 | If login successful, donor landing/dashboard scene will be loaded. | OP |
| Event 3 | Click “view books” button | UIE |
| Event 4 | A new scene will appear where user will be able to view list of books donated by them, or list of all books in the library. | OP |
| Event 5 | User can click “view demanding books” by filtering from: borrowed book, publisher, author, year buttons  borrowed book = list will show most borrowed books  publisher = selecting “publisher” button will open a pop up asking for input for publisher name.  user will input publisher name and click search button  then list will show most demanding book for a publisher.  Author = selecting “author” button will open a pop up asking for input for author name.  user will input author name and click search button  then list will show most demanding book for a author.  Year = selecting “year” button will open a pop up asking for input for year.  user will input year and click search button  then list will show most demanding book in that year. | OP, DP, UI |
| Event 6 | The user can then return to the landing scene and can either logout or use other features. | UIE, OP |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Goal-5** | **Description of Goal-5:** Provide money to the Library Director as donation | | event type |
| Workflow: | event-1 | workflow of login process will be executed first |  |
|  | event-2 | If login successful, donor landing/dashboard scene will be loaded. |  |
|  | event-3 | Click “donate money” |  |
|  | Event-4  Event-5 | A new scene will appear where donor can provide address in a form of the office to pick up the cheque.  The donor will provide information such as Donor name, Office address, contact number, the date and time slot for the cheque pickup.  Click “submit” button which will send this donation request to the Library Director. |  |
|  | event-6 | A confirmation message will be received “Your donation is under process” |  |
|  | Event-7 | The user can then return to the landing scene and can either logout or use other features. |  |
|  |  |  |  |
| **Goal-6** | **Description of Goal-6:**  Provide funds from government/other agencies | |  |
| Workflow: | Event-1 | workflow of login process will be executed first |  |
| Event-2 | If login successful, donor landing/dashboard scene will be loaded. |  |
| Event-3 | Click “donate money” |  |
| Event-4 | A new scene will appear where donor can provide address in a form of the office to pick up the cheque.  The donor will provide information such as agency/ government representative name, Office address, contact number, the date and time slot for the cheque pickup. |  |
| Event-5 | Click “submit” button which will send this donation request to the Library Director. |  |
| Event-6 | A confirmation message will be received “Your donation is under process” |  |
| Event-7 | The user can then return to the landing scene and can either logout or use other features. |  |
|  |  |  |

.

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Goal-7** | **Description of Goal-7:** See category type utilization (usage) reports on the resources (books/ journals/ audiobooks) | | event type |
| Workflow: | event-1 | workflow of login process will be executed first |  |
|  | event-2 | If login successful, donor landing/dashboard scene will be loaded. |  |
|  | event-3 | Click on “View Report” button |  |
|  | event-4 | Select from “Category” dropdown menu |  |
|  | event-5 | Selecting “books” will show a list of books with information such as:  Book name, Publisher Name, Author Name, number of copies, Date when stored, number of times it has been borrowed, damage report.  Selecting “Journal” will show a list of journals with information such as:  Journal name, Author Name, number of copies, Date when stored, number of times it has been borrowed, damage report.  Selecting “audiobooks” will show a list of audiobooks with information such as:  Audiobook name, Publisher Name, number of copies, Date when stored, number of times it has been borrowed, damage report. |  |
|  | Event-6 | The user can then return to the landing scene and can either logout or use other features. |  |
|  |  |  |  |
| **Goal-8** | **Description of Goal-8:** Suggest improvement reports | |  |
| Workflow: | Event-1 | workflow of login process will be executed first |  |
| Event-2 | If login successful, donor landing/dashboard scene will be loaded. |  |
| Event-3 | Click on “suggest” button |  |
| Event-4 | Click on “attach file” |  |
| event-5 | This will take the user to a new scene where user will select “upload” after attaching file |  |
| Event-6 | The user can view the report after uploading by clicking on the “view report” button |  |
| Event-7 | The user can then return to the landing scene and can either logout or use other features. |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User5 name:** Library Assistant | | | | |
| **Goal-1** | **Description of Goal-1:** Library Assistant will be able to search for a specific Book position | | | event type |
| Workflow: | event-1 | The login process's procedure will be carried out initially. User will select his/her department as ‘Library Assistant’ from a combo box and input their user id, password then click login. | | UID, VL, VR |
| event-2 | If users put wrong credentials, then user will be prompt an ‘Unsuccessful Login’ error message. | | OP, VR |
| event-3 | If logged in successfully user will be taken to user specific homepage. From that homepage he/she can click on ‘Book Position Search’ button. Book Position Search option is for a variety of books that need to search where it is, it helps narrow down users searches to find a book by books name and id. An additional trick is to use the – symbol while searching. | | OP, UIE |
| event-4 | Upon clicking on ‘Book Position Search’ button user will be taken to a new scene where he/she will type the book name or book id in two text box there will be given and click a button ‘search location’ that is below from those two-text box. And there will be also combo box for the book genre of Fantasy, Adventure, Romance, Mystery etc. and a text box for author’s name. | | UIE, OP |
| event-5 | Then user will be shown the book location including: shelf no., Library floor, Library section. Each subject is given a classification or shelf number to help you find the book you want in the library. You can find the shelf number of a book or journal by using the book position search. It will make easier to find the book for readers and user because of these easy search option. | | OP, DP |
| Event-6 | User can log out or initiate another workflow. | | UIE, OP |
| **Goal-2** | **Description of Goal-2:** Library Assistant will be able to apply for Leave Application | | |  |
| Workflow | event-1 | After logged in successfully user will be taken to user specific homepage and then he/she can see a button ‘Leave Request’. A leave request is a communication in which you request time off from work from your employer or supervisor. Normally, you would explain your request in the message and provide the days you want to take off. If the user needs a leave request, then he/she must click the button to proceed the task. | | OP, UIE |
| event-2 | ‘Leave Request’ will take the user in a new interface Where there will be a combo box and user must select one option for leave request. The options are ‘Sick leave’ and ‘Vacation’. Time off for an employee's illness is known as sick leave. Many employers get their leave request for sickness or they can take care of a sick child or other dependent. User frequently go on vacation for certain festivals, celebrations, holiday observances or any family event. | | UID, OP, DP |
| event-3 | User can see in the left corner of the scene how many days he/she has left to take the vacation or sick leave. It is a certain rule that the user can take leave from the library for a limited time in a year. So, if no days are left, then it will show ‘You cannot request for leave’. | | OP, VL |
|  | Event-4 | If user has days to take leave request, then there will appear two boxes one is title box and another one is description box.  Here user have to fill up a textbox writing the reasons of leave request in more details about why he/she is taking this leave from his/her job. Then the user can send it to the upper library authority by clicking on a button ‘Submit Request’. | | PC, UID |
|  | Event-5 | User now have to wait for the leave application approval, which will notify the user with ‘approved’ sign in the application box. | | OP |
|  | Event-6 | User can log out or initiate another workflow. | | UIE, OP |
| **Goal-3** | **Description of Goal-3:** Library Assistant will be able toview net Payable salary details | | |  |
| Workflow | event-1 | User can see their salary report by clicking the button ‘view salary details’. This will take the user to new scene. This information came from the accountant’s database of employee details. | | UIE |
| event-2 | In that new scene user can check days remaining for payroll, working hours, bonus earned for extra work. Days remaining for payroll is where user can see the date of upcoming new month’s salary. | | OP |
| Event-3 | There user can also check their balance remaining by clicking in one button called ‘wallet’ in Salary report view. And there going to appear a box where he/she can see the remaining money of their duty hour. | | UIE, OP |
| event-4 | And user can also download a document pdf where there will be all the payroll details are given for himself. | | DP |
|  | Event-5 | User can log out or initiate another workflow. | | UIE, OP |
| **Goal-4** | **Description of Goal-4:** Library Assistant will be able to withdraw advanced salary. | | |  |
| Workflow | event-1 | | To check ‘Wallet’ user have to enter in salary report view option and then see the remaining balance from the payroll. | UIE, OP |
| event-2 | | If there is no money remaining, then user can also request for advance salary by clicking a button ‘Req for advance’ | UIE |
| event-3 | | ‘Req for advance’ button work as a click button that will notify to accountant just by clicking the button and inform the accountant that the user needs to withdraw his salary and also working hour is over for that user. | VL, PC |
|  | Event-4 | | User can log out or initiate another workflow. | UIE, OP |
| **Goal-5** | **Description of Goal-5:** Library Assistant will be able toreport for Damage and Missing Items | | |  |
| Workflow | event-1 | | In this section User will get a button for damage report and then clicking that button will take him/her to a new scene. | UIE |
| event-2 | | In that section User can select **‘Equipment damage’, ‘Missing items’, ‘Book damage’, ‘Lost and Found’** | OP |
| event-3 | | ‘Equipment Damage’ will take the user in a interface where user have to Report the damage by selecting the section, floor of the library and where is that damage happened and send request to authority by clicking the button ‘Request to Fix’ | UID |
|  | Event-4 | | ‘Missing Items’ has an option where there is a box, user have to write the missing item name and description about the missing item another box where user will write the name and email of the owner then library authority will inform the owner after finding out the missing item. | UID |
|  | Event-5 | | ‘Lost and Found’ is for the items which were found by the owner that has no known owner. It will make a list of those missing items in the app. | UID, VL |
| Event-6 | | ‘Book Damage’ option will be available to the Library Assistant member. There he can enter the book name and ID and lodge the details of damage. | UID |
|  | Event-7 | | User can log out or initiate another workflow. | UIE, OP |
| **Goal-6** | **Description of Goal-6:** Library Assistant will be able toSign into the app for attendance | | |  |
| Workflow | event-1 | | After logged in User have to select a button from the specific homepage the button is ‘attendance’ there the user just has to tick a box of that working day. | UIE |
| event-2 | | The attendance will be verified by the administrator and it will be updated in the user’s attendance sheet by their he/she can check his/her attendance. | VR |
| event-3 | | User also can download the last months working attendance to see the working hours. By clicking the button name ‘attendance report’ | DP |
|  | Event-4 | | User can log out or initiate another workflow | UIE |
| **Goal-7** | **Description of Goal-7:** Library Assistant will be able toCheck duty Schedule | | |  |
| Workflow | event-1 | | Admin of library will provide the duty schedule for every employee to see that ‘Library Assistant’ user have to login and check it by clicking the button ‘Duty Schedule’ | UIE |
| event-2 | | ‘Duty Schedule’ will take the user in a new scene their he/she will check his/her id and that row will show the scheduled starting and ending time | OP |
| event-3 | | User can also fill-up a box for requesting next working day schedule with their id and send it to the ‘admin’ by clicking ‘submit’ button. | UID |
| **Goal-8** | **Description of Goal-8:** Library Assistant will be able to See upcoming events and duties | | |  |
| Workflow | event-1 | | User can check calendar of upcoming event provided by event manager. User need to just click on a button named ‘See Upcoming events’ | UIE, OP |
| event-2 | | In the Upcoming events scene, there will be shown all the events and if user click on that event day button in that button a note will be pop up and the note name is ‘Task’ | OP |
| event-3 | | In ‘Task’ note event manager will assign the work for the user and time schedule. | UID |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User6 name:** Event Manager | | | | | |
| **Goal-1** | **Description of Goal-1:** Event Manager will be able to Create an Event | | | | event type |
| Workflow: | event-1 | | The login process's procedure will be carried out initially. User will select his/her department as ‘Event Manager’ from a combo box and input their user id, password then click login. | | UID |
| event-2 | | If users put wrong credentials, then user will be prompt an ‘Unsuccessful Login’ error message. | | VR |
| event-3 | | If logged in successfully user will be taken to user specific homepage. From their he/she can click on ‘Create an Event’ button. | | UIE |
| event-4 | | The user will be transported to a new scene after hitting that button, where he or she can type the Event name in a ‘Event name’ box and type of the event in a combo box. The event types are: Author reading, Author Interview, Seminar, Book Club, Panel Discussion, Book Party, New Members Orientation, Festivals in Holidays and Reading Challenge. Then select a button ‘next’ | | UID |
| event-5 | | After clicking ‘next’ button the user will be taken to a new scene where User will get a ‘text box’ and he/she will provide the full description of upcoming event and if needed he/she can also provide the author’s name there. Then again press the button ‘next’ | | UID |
|  | Event-6 | | This time in new scene user will provide the date and time of the event that will be start and also how many days or hours it will take and then click the ‘submit’ button. That will create an Event | | UID |
| **Goal-2** | **Description of Goal-2:** Event Manager will be able to Create Budget | | | |  |
| Workflow | event-1 | | Select ‘Create Event Budget’ option. It will take the user to a new scene where a list of already created events will appear. Alongside a button (Create Budget) will also appear if budget is not already created for that event | | OP |
| event-2 | | Selecting ‘create budget’ button will take the user to a new scene where the user has to fill up a form containing event name, date, end date, duration, budget ID. Budget ID will be generated automatically. Click ‘next’ button | | UIE, UID |
|  | Event-3 | | Clicking ‘next’ button will take user to a different scene their he/she will enter ‘expenditure type' and ‘amount’ and click ‘enter’. Then user can add more expenditure or click ‘confirm budget’. This will conclude the budget creating procedure. | | UID |
| **Goal-3** | **Description of Goal-3:** Event Manager will be able to Request approval for the event | | | |  |
| Workflow | event-1 | | It’s a one-click where there will be one form and user have to fill up event id, budget id and date then after that click ‘request for approval’ | | UID, UIE |
| event-2 | | ‘Request for approval’ button will send the request notification to library director | | VR, OP, UIE |
| event-3 | | If Library Director approve the event, it will show ‘approved’ in the event data list. Then Event Manager can do the next procedure for the event. | | PC |
| **Goal-4** | **Description of Goal-4:** Event Manager will be able toCreate Guest list | | | |  |
| Workflow | event-1 | After getting approval for event and budget, User can go through a data of Authors name and all the Speakers who did seminar in the library before. Then the user sends them the event details and write the invitation message in a box by clicking the button ‘send’ | | | OP, UID |
| event-2 | User also can go through the library reader membership options and send them all the new event invitation via mail that connected with the app. | | | OP, UID |
| event-3 | In that page there will be also a dashboard in that board, user will add all the event details and all the guest’s name who will be performing for the event | | | UID |
| **Goal-5** | **Description of Goal-5:** Event Manager will be able toRequest for budget withdrawal | | | |  |
| Workflow | event-1 | Upon clicking on ‘withdraw budget’ user will be taken to a new scene, where user will be able to see the list of approved events and budget list | | | OP |
| event-2 | From there he can select a budget and send it to accountant for budget withdrawal. | | | UIE |
| **Goal-6** | **Description of Goal-6:** Event Manager will be able toUpdate calendar for events so that other employees can see the upcoming event | | | |  |
| Workflow | event-1 | User can update the calendar by clicking a button ‘add event’ in the calendar interface | | UIE | |
| event-2 | In ‘add event’ option add the created event and select the date from calendar then press the button ‘done’ | | UID | |
| event-3 | After pressing ‘Done’ button the calendar will be updated and that will be visible for every Users of library and in their calendar. | | OP | |
| **Goal-7** | **Description of Goal-7:** Event Manager will be able to Assign event duties amongst available employees | | | |  |
| Workflow | event-1 | Employees can see the duties for the event that will assign by ‘Event Manager’ user. First the user will go through the employee data and their schedule because he/she has the access. | | | OP |
| event-2 | User can also download the schedule file from the scene. | | | DP |
| Event-3 | After analyzing their data user will write in the event task box by editing and add every available employee’s name and give them their duties for the event. | | | UID |
| event-4 | By clicking ‘assign’ the site will be updated automatically. | | | UIE |
|  | Event-5 | User can log out or initiate another workflow. | | | UIE |
| **Goal-8** | **Description of Goal-8:** Event Manager will be able to submit Event report. | | | |  |
| Workflow | event-1 | After the event, event manager will be able to create a report about the event the option ‘create report’ will be visible in his/her specific homepage | | | UIE |
| Event-2 | In create report option there will be a box where user will put every detail of that event and guest and members details and click in a button ‘post in Dashboard’ and then the report will automatically save to the ‘Archive Box’. Archive Box is a powerful, self-hosted internet archiving solution to collect, save, and view sites you want to preserve offline. | | | UID |
| Event-3 | After clicking on ‘Post in Dashboard’ button the event report will be showed in the dashboard of every user’s homepage. | | | OP |
| event-2 | Event Manager will be able to send the report to Librarian, HR the hard copy by downloading a document pdf of that report. So, there will be also a button ‘download pdf’ for the report of that event. | | | DP |
| event-3 | And in another button ‘Send Money Report’ the user will send all the spending money information to the accountant of the library. | | | UIE |
|  | Event-4 | User can log out or initiate another workflow. | | | UIE, OP |

|  |  |  |  |
| --- | --- | --- | --- |
| **User7 name:** Library Director | | | |
| **Goal-1** | **Description of Goal-1:** Library Director will be able to create an employee account | | event type |
| Workflow: | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| event-3 | select the option for “create employee account” from the menu bar and this will take the user to a new scene. | UIE |
| event-4 | user Id and Password for the new account. A unique user id and password will be given as input and input user details (name, Date of joining, Nid No, salary, employee type, email, contact number, address) and click add button. | UID, VL, DP |
| Event-5 | Confirmation message “account created successfully” if account created successfully.  Else error message “please fill out all the required fields “will be shown. | OP |
| Event-6 | Either the user logs out or initiates another workflow. | UIE |
| **Goal-2** | **Description of Goal-2:** Library director will be able to approve an advanced salary report. | |  |
| Workflow | Event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| Event-2 | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| Event-3 | select the option for “advance withdrawal approval” from the menu bar and this will take the user to a new scene. | UIE |
| Event-4 | Library Director will go through an advance withdrawal report. View the request and either he clicks on to approve or disapprove button. | OP |
| Event-5 | Click on “approve advanced withdraw report “upon clicking on this button the request has been forwarded to accountants to proceed with the advanced salary for that request. Or click on “disapprove” upon clicking on this button employee can view the request that has been disapproved. Based on the Library Director’s feedback accountant will initiate his/her work | UIE |
| Event-6 | Either user logs out or initiates another workflow. | UIE |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User7 name:** Library Director | | | | |
| **Goal-3** | **Description of Goal-3:** Library Director will be able to approve employee leave application | | | event type |
| Workflow: | event-1 | | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| event-3 | | Select “Leave application request” from the menu bar and this will take the user to a new scene. | UIE |
| event-4 | | Select An employee leave application and the user can either approve or disapprove the application. | Op, UIE |
| event-5 | | If the user approves the application, then the employee can view that leave application approved from the employee leave application screen. Else If the user disapproves the application, then the employee can view that leave application disapproved from the employee leave application screen. | UIE, DP |
| Event-6 | | After the approved employee leaves the application. Employee remaining leave days will be updated by deducting the current number of days leave from available leave days. | DP |
|  | Event-7 | | Either the user logs out or initiates another workflow. | UIE |
| **Goal-4** | **Description of Goal-4:** The library Director can view the appointment  request and confirm the appointment | | |  |
| workflow | Event-1 | workflow of the login process will be executed first | | UID, VL, VR: see WF of login |
|  | Event-2 | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | | OP, VL, VR, see WF of login |
| Event-3 | Select “appointment schedule” from the menu bar and this will take the user to a new scene. | | UIE |
| Event-4 | In this scene, the Library Director will see the appointment request with the date and time. The Library director can approve or disapprove the appointment by clicking approve or disapprove button. | | OP, UIE |
| Event-5 | Upon clicking on the approve or disapprove button the user will be notified of his/her appointment. | | UIE, UID |
|  | Event-7 | Either the user logs out or initiates another workflow. | | UIE |

|  |  |  |  |
| --- | --- | --- | --- |
| **User1 name:** Library Director | | | |
| **Goal-5** | **Description of Goal-5:** Library Director will be able to Approve upcoming events | | event type |
| Workflow: | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
|  | event-3 | select the option for “upcoming event request” from the menu bar and this will take the user to a new scene. | UIE |
|  | event-4 | Users will see the report of upcoming event plans from the “Event manager “user. And that will pop up in the “event plans” feature of the Library Director user. | Op |
|  | event-5 | Users can approve or disapprove the report that has been received from the event manager. With a remark. | UIE, UID, DP |
|  | Event-6 | If the user approves the report, then the event manager user will be able to see the report has been approved and workflow after approval will be continued. If Library Director disapproves then that will notify the event manager user and workflow after disapproval will be continued. | OP, |
|  | Event-7 | Either the user logs out or initiates another workflow. | UIE |
| **Goal-6** | **Description of Goal-6:** Library Director will be able to approve the upcoming event budget | |  |
|  | Event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| Event-2 | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| Event-3 | select the option for “event budget request” from the menu bar and this will take the user to a new scene. | UIE |
| Event-4 | The user will see the report of the upcoming event budget report from the “Event Manager “user. And that will pop up in the “event budget Approval” feature of the Library Director user. | OP |
| Event-5 | Users can either approve or disapprove of the report that has been received from the event manager. With a remark. | UIE, UID, DP |
| Event-6 | If the user approves the report, then the “accountant” user will be notified to proceed with the event budget, and the workflow after approval will be continued. if disapproved then that will notify the Event manager user, and the workflow after disapproval will be continued. | DP, OP |
|  | Event-7 | Either the user logs out or initiates another workflow. | UIE |

|  |  |  |  |
| --- | --- | --- | --- |
| **User1 name:** Library Director | | | |
| **Goal-7** | **Description of Goal-7:** Library Director can view the Employee Salary increment report | | event type |
| Workflow: | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| event-3 | select the option for “view salary increment reports” from the menu bar and this will take the user to a new scene. | UIE |
| event-4 | This will allow the user to view all of the salary increment reports, where the data stored of all the employees | op |
| event-5 | After clicking that user will see the reports of those employees that had an increment. | op |
| event-7 | Either the user logs out or initiates another workflow. | UIE |
| **Goal-8** | **Description of Goal-8:** Library Director will finalize holidays and office time | |  |
|  | Event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| Event-2 | If login is successful, the Library Director landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| Event-3 | Select the option for “The calendar” from the menu bar this will take the user to a new scene. | UIE |
| Event-4 | This will take the user to the date section where all the dates are shown. | OP |
| Event-5 | Two options will be available there “organizational and government”. User select date from the calendar and select holidays type. | UID, DP |
|  | Event-6 | After selecting all the holidays, the user will be clicking on a pdf report of all the holidays including the government and the organization as well. | DP, UIE |
|  | Event-7 | Users view the generated holiday reports and click on the update holiday button. upon clicking on the update holiday button, the holidays are added to the library calendar. | OP, DP, UID |
|  | Event-8 | Either the user logs out or initiates another workflow. | UIE |

|  |  |  |  |
| --- | --- | --- | --- |
| **User8 name:** Accountant | | | |
| **Goal-1** | **Description of Goal-1:** Accountants will generate an employee monthly salary payroll report. | | event type |
| Workflow: | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
|  | event-3 | select the option for “Generate salary report” from the menu bar and this will take the user to a new scene. | UIE |
|  | event-4 | A table containing all Employee data (Employee id, name (f name, l name), salary, salary month,) will be shown | OP |
|  | event-5 | The accountant will go through the employee data table and click the “generate a payroll” Button | UIE |
|  | Event-6 | After clicking the “generate a payroll” button a pdf report will be created containing the total payroll amount along with the detailed salary breakdown of the employee. (Containing (Employee id, name (f name, l name), salary, salary month,) and the total payroll at the bottom row of the table) | OP |
|  | Event-7 | The accountant will go through the payroll report | OP |
|  | Event-8 | After going through the report user and then the accountant will check the library accounts balance and transfer payroll to employee bank accounts this process will be executed offline. After that accountant will update the employee payroll status as paid. And send the report to Library Director. | UIE |
|  | Event-9 | Either the user logs out or initiates another workflow. | UIE |
| **Goal-2** | **Description of Goal-2:** Accountants will be able to create yearly fundraising report | |  |
|  | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| event-3 | select the option for “Generate fundraising report” From the menu bar and this will take the user to a new scene. | UIE |
| event-4 | Upon clicking on this button. All the funds raised throughout the year will be read and will be shown in this scene | UID,OP |
| event-5 | The user will click the “generate pdf” button and the pdf will be generated. | UID,OP |
|  | Event-6 | Either the user logs out or initiates another workflow. | UIE |

|  |  |  |  |
| --- | --- | --- | --- |
| **User8 name:** Accountant | | | |
| **Goal-3** | **Description of Goal-3:** Accountants can request an advanced salary withdrawal | | event type |
| Workflow: | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
|  | event-3 | select the option for “Advanced withdrawal” from the menu bar and this will take the user to a new scene. | UIE |
|  | event-4 | In this scene, accountants can apply for advanced withdrawal a form will be shown containing the (employee id, name, and withdrawal amount). On the side scene, the accountant’s remaining salary amount will be shown. | PC, DP, UID |
|  | Event-5 | After that accountants will fill up the form and click submit button. Upon clicking on submit button the request will be sent to Library Director and wait for a response. | OP, UIE |
|  | event-6 | Either the user logs out or initiates another workflow. | UIE |
| **Goal-4** | **Description of Goal-4:** Accountants will be able to create a yearly budget report. | |  |
|  | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| event-3 | select the option for “Generate yearly budget report” from the menu bar and this will take the user to a new scene. | UIE |
| event-4 | In this scene, a list of all the expenses throughout the year will be shown at the bottom of the scene a generate pdf button will be shown. | OP, |
| event-5 | Upon clicking on the generate the pdf button it will fetch the data from the database and generate the pdf. | UIE, UID,UIE |
|  | event-9 | Either the user logs out or initiates another workflow. | UIE |

|  |  |  |  |
| --- | --- | --- | --- |
| **User8 name:** Accountant | | | |
| **Goal-5** | **Description of Goal-5:** Accountants will receive budget approval from the Library Director and allocate the budget to the event manager | | event type |
| Workflow: | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
|  | event-3 | select the option for “event budget approves” from the menu bar and this will take the user to a new scene. | UIE |
|  | event-4 | In this scene, accountants will see an upcoming event budget report that has been approved by the Library director. | OP |
|  | event-5 | After that accountant will transfer the fund to the event manager that process will be held offline | UIE, OP |
|  | Event-6 | And after transferring the budget accountant will click on  “Budget Allocated” button | UIE, OP |
|  | Event-7 | Either the user logs out or initiates another workflow. | UIE |
| **Goal-6** | **Description of goal 6:**  Accountants will be able to generate a pie chart regarding all of the event that has happened throughout the year Along with a budget breakdown. And send the report to Library Director | |  |
|  | Event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| Event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| Event-3 | The user will click a Button “Generate Report” | UIE |
| Event-4 | This will take the user to a new window, where the user will be able to choose the type of chart and time period, he wants to generate the report.  The user will choose the Chart type first | UID, DP |
| Event-5 | After choosing the type of chart, a new window will pop up where he has to choose the time period | UID |
| Event-6 | After choosing both the time period and the chart type, the user will be able to click the generate report button. He will click it | UIE, DP |
| Event-7 | A new scene will appear to the user showing a chart of his choice within the time period he chose. | OP |
| Event-8 | There will be a button below the generated chart which the user can click on the button a pie chart will be generated based on the event that happened during the period with the budget allocated for those events. Then the user clicks on it to send the report to the library director. After clicking the Send button, a message will show up “Sent Successfully” | UIE |
| Event-9 | Either the user logs out or initiates another workflow. | UIE |

.

|  |  |  |  |
| --- | --- | --- | --- |
| **User8 name:**  Accountant | | | |
| **Goal-7** | **Description of Goal-7:** Accountants will be able to apply for leave application | | event type |
| Workflow: | event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
|  | event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
|  | event-3 | After logging in successfully user will be taken to a user-specific homepage and then he/she can see the button ‘Leave Request’. A leave request is a communication in which you request time off from work from your employer or supervisor. Normally, you would explain your request in the message and provide the days you want to take off. If the user needs a leave request, then he/she must click the button to proceed with the task. | UIE, OP |
|  | event-4 | ‘Leave Request’ will take the user to a new interface Where there will be a combo box and the user must select one option for the leave request. The options are ‘Sick leave’ and ‘Vacation’. Time off for an employee's illness is known as sick leave. Many employers get their leave requests for sickness or they can take care of a sick child or other dependents. The user frequently goes on vacation for certain festivals, celebrations, holiday observances, or any family event | UID, OP, DP |
|  | event-5 | User can see in the left corner of the scene how many days he/she has left to take a vacation or sick leave. It is a certain rule that the user can take leave from the library for a limited time in a year. So, if no days are left, then it will show ‘You cannot request for leave’. | OP, VL |
|  | Event-6 | If the user has days to take a leave request, then there will appear two boxes one is the title box and another is the description box.  Here users have to fill up a textbox writing the reasons for leave request in more detail about why he/she is taking this leave from /her job. Then the user can send it to the upper library authority by clicking on the button ‘Submit Request’. | PC, UID |
|  | Event-7 | The user now has to wait for the leave application approval, which will notify the user with an ‘approved’ sign in the application box. | OP |
|  | Event-8 | Either the user logs out or initiates another workflow. | UIE, OP |
| **Goal-8** | **Description of Goal-8:** Accountants will receive employee advanced salary withdrawal approval from the Library Director and proceed with the advanced salary withdrawal. | |  |
|  | Event-1 | workflow of the login process will be executed first | UID, VL, VR: see WF of login |
| Event-2 | If login is successful, the accountant landing/dashboard scene will be loaded. Else users put wrong credentials, then the user will be prompted an ‘Unsuccessful Login’ error message. | OP, VL, VR, see WF of login |
| Event-3 | select the option for “advanced withdrawal approval from the menu bar and this will take the user to a new scene. | UIE |
| Event-4 | In this scene, the advanced salary withdrawal request which has been approved by Library Director will be shown  To process those advanced salary requests. | OP |
| Event-5 | Accountants will transfer the salary to the employee account this part will be held offline. After transferring the salary. accountants will click on the “paid” button | UIE |
| Event-6 | Upon clicking on the paid button. User salary will be updated (Advanced withdrawal amount will be deducted from the salary ). | UIE, OP, DP |
|  | Event-7 | Either the user logs out or initiates another workflow. | UIE, OP |