Milestone 1

| **Topic: Education Board** | | |
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| **2021591** | **S. M. A Sayed Al Banna** | **User1: Student** |
| **User2: Institution** |
| **2021397** | **Injamam Ul Haque** | **User3: Head of examination** |
| **User4: Office Administrator** |
| **2020367** | **Akib Raihan** | **User5: Teacher** |
| **User6: Registrar’s Office** |
| **2020600** | **William Jefferson** | **User7: Education Minister** |
| **User8: Scholarship Office** |

**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)

Common Goal:

| **Login Process** | | | |
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| 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 “School”, “Admin”, “Head of examination ”, “Office Administrator”, “Teacher”, “Registrar’s Office”, “Education Minister”, “Scholarship Office”. A textfield for userID and password will also appear. A “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 the 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 fails, select “Forget password”. A new scene will appear where users 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 text field.** | **UIE, UID,** |
|  | event-7 | **Select “confirm password” button to confirm new password and continue the login process by entering userID and password and selecting Login button and login to the application.** | **UIE, UID, VL, VR, OP** |

| **User1 name: Student** | | | |
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| **User-1, Goal-1** | **Description of Goal-1:** Students can view their board exams result with gpa and grades of all subjects. If required he/she may download the result sheet | | **Event Type** |
| Workflow: | event-1 | **Workflow of login system will be followed** | **VR** |
|  | event-2 | **A Student dashboard will affair.in the dashboard there are many other options along with “Result of public Exam”.Selects Result of public exam option** | **UIE** |
|  | event-3 | **Enter details of the related exam of which result the student wants to know, Give his registration ID, roll number and to verify student needs to do a easy calculation and submit the form** | **UID, UIE** |
|  | event-4 | **A new window will open where the students can see their desired board exam results with subject name, code, grade and GPA** | **OP** |
|  | event-5 | **In this window there is a download button to download the student's result sheet. Student may click the download button to download the result sheet** | **UIE** |
|  | event-6 | **A prompt will pop up and ask for download confirmation. If the student confirm for download then the pdf of the result sheet file will be downloaded** | **UIE, OP** |
|  | event-7 | **The user may go to the home or logout from the page.** | **UIE** |
|  | | | |
| **User-1, Goal-2** | **Description of Goal-2:** Apply for Registration | | **Event Type** |
| Workflow: | event-1 | **Workflow of login system will be followed** | **VR** |
|  | event-2 | **Select Registration option** | **UIE** |
|  | event-3 | **Then select the public exam option in which the student wants to register** | **UIE** |
|  | event-4 | **A form will be displayed in the window, students must fill up the form and submit** | **OP, UID,UIE** |
|  | event-5 | **system will send the user an OTP code, student has to write the code for verification** | **UID, VR, UIE** |
|  | event-6 | **The institution will verify all the information and send a confirmation message with a registration bill. Or if the institution found any incorrect information then the student will receive a notification and need to fill up the form again.** | **VR, UIE** |
|  | event-7 | **There is a combobox for payment methods. The options of combobox are “Bkash”, “Nagad”, “Rocket” and “Debit/Credit card”. The student may select one of the option from the combobox to pay bill** | **UIE** |
|  | event-8 | **After payment confirmation student will be able to download registration card and admission card** | **UIE, OP** |
|  | event-9 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-1, Goal-3** | **Description of Goal-3:** Apply for Rechecking | | **Event Type** |
| Workflow: | event-1 | **Students may log in into their ID** | **VR** |
|  | event-2 | **Select challenge option** | **UIE** |
|  | event-3 | **Select the name of the examination** | **UIE** |
|  | event-4 | **Select the subjects they want to apply for rechecking and give other necessary details** | **UID, UIE** |
|  | event-**5** | **Then pay the bill for rechecking** | **UIE** |
|  | event-6 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-1, Goal-4** | **Description of Goal-4:** See seat plan | | **Event Type** |
| Workflow: | event-1 | **Students may log into their ID** | **VR** |
|  | event-2 | **Go to respective board exam section** | **UIE** |
|  | event-3 | **Select see seat plan option** | **UIE** |
|  | event-4 | **A seat plan window will open, student can search their id to see their seat plan** | **UIE,UID** |
|  | event-5 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-1, Goal-5** | **Description of Goal-5:** Request to Edit personal information | | **Event Type** |
| Workflow: | event-1 | **Students may log in to their id** | **VR** |
|  | event-2 | **Select see personal information details** | **UIE** |
|  | event-3 | **In the below of the window there is a button edit personal info, to edit they may click the button** | **UIE, OP** |
|  | event-4 | **Student may change their information and click submit** | **UID, UIE** |
|  | event-5 | **They will receive an OTP code via message, need give the OTP code in a textField and click confirm** | **UID, VR** |
|  | event-6 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-1, Goal-6** | **Description of Goal-6:** Apply for college admission | | **Event Type** |
| Workflow: | event-1 | **Students may log in to their id** | **VR** |
|  | event-2 | **Select Apply to college** | **UIE** |
|  | event-3 | **A college list will pop up, they can see the list, search for their desired college** | **OP, UID, UIE** |
|  | event-4 | **After selecting the college, they can see if they are eligible for the college or not, if they are eligible they can confirm their application** | **VL, UIE** |
|  | event-5 | **They will get a bill, need to pay the bill** | **UIE** |
|  | event-6 | **After a few days they will receive a selection message from a college, they need to confirm if they wanna get admission or not** | **OP, UIE** |
|  | event-7 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-1, Goal-7** | **Description of Goal-7:** Change institution | | **Event Type** |
| Workflow: | event-1 | **Students may log in to their account by following the login procedure of the system by giving his/her id, pass and selecting the type of user.** | **VR** |
|  | event-2 | **If login is successful, then a dashboard will appear. In this scene the user can see the change institution option. To change his/her institution he/she needs to select this option.** | **UIE** |
|  | event-3 | **After selecting the change institution option, a list of institutions will be shown, they need to select one from the list by matching the given conditions of that institution. If the student is eligible for that institution then he/she will be taken to a new page or a message will pop up to the window saying that they need to select an eligible institution.** | **OP, VL, UID, UIE** |
|  | event-4 | **If the user selects an institution in which she/he is eligible to get admission, then in a few days a confirmation from the institution will be sent. They will receive a bill and click the pay bill option to pay their due bill.** | **OP, UID, UIE** |
|  | event-5 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-1, Goal-8** | **Description of Goal-8:** Apply for scholarship | | **Event Type** |
| Workflow: | event-1 | **Students need to log in to their id by following log in credentials.** | **VR** |
|  | event-2 | **Then select Scholarship option from the dashboard** | **UIE** |
|  | event-3 | **A new window will open. They can see if they have any scholarship or not. There will be a button for scholarship request, to apply for the scholarship they need to click the button** | **OP, UIE** |
|  | event-4 | **A new window will open, there will be a form for the scholarship application, students need to fill up the form and submit it.** | **UID, UIE** |
|  | event-5 | **Depending on the type of Scholarship, a new prompt will open. If it’s an academic scholarship then the user will be asked to give previous academic certificates, if the scholarship is on co-curricular activities, then s/he will be asked to give their certification in that field, if the scholarship is on financial support, then the user will be asked to give their bank statement. By submitting the necessary papers the user will complete their application successfully.** | **UID, UIE** |
|  | event-6 | **The user may go to the dashboard or logout from the page.** | **UIE** |

| **User2 name: Institution** | | | |
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| **User-2, Goal-1** | **Description of Goal-1:** Get Students certificates | | **Event Type** |
| Workflow: | event-1 | **Users may follow the log in process to log into their account.** | **VR** |
|  | event-2 | **If they log in to their account successfully, a dashboard will open. From this dashboard the user can select a class.** | **UIE** |
|  | event-3 | **Upon clicking on the class(x class) option a list of the students of that class will show up. Users need to select the name of the student to download their certificates.** | **UID, UIE** |
|  | event-4 | **After selecting the student name of which the institution wants to get the certificate, a list of all his certificates will pop up, and the user needs to select the desired one.** | **OP, UIE** |
|  | event-5 | **A pdf of the certificate will open in a new window. There will be a download button at the top corner of the window. The user needs to click the download button to get the certificate.** | **UIE, OP** |
|  | event-6 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-2, Goal-2** | **Description of Goal-2:** Publish teacher’s vacancy circular | | **Event Type** |
| Workflow: | event-1 | **User may log in to their account by following the login workflow** | **VR** |
|  | event-2 | **After the successful login, a dashboard will appear. In this dashboard there will be multiple options including, post job circular. To post a job circular they need to select this option.** | **UIE** |
|  | event-3 | **A new interface will open, where the user can post the vacancy for teacher/s. They need to give the necessary details of the position and the requirements to be a teacher of their institution.** | **UID, UIE** |
|  | event-4 | **In the dashboard, there will be an option to see job applications. By clicking the option, they can open the box and find by application of the positions along their cvs.** | **OP, UIE** |
|  | event-5 | **They can check the details and CV of the applicants by clicking on their applications and there will be a button named as call for interview and another button for rejection. On selecting the relevant button an email will be sent to the applicants.** | **OP, UIE** |
|  | event-6 | **After the interview they can send an email to the interviewee by letting them know if they are selected or not. Then if the interviewee agreed to join as their teacher then they may input the name of the teacher along with other necessary details in the Teacher section.** | **UID, UIE** |
|  | event-7 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-2, Goal-3** | **Description of Goal-3:** Publish admission circular | | **Event Type** |
| Workflow: | event-1 | **Users may follow the log in process to log into their account.** | **VR** |
|  | event-2 | **After the successful login, a dashboard will appear. In this dashboard there will be multiple options including, post admission circular. To post an admission circular they need to select this option.** | **UIE** |
|  | event-3 | **A new window will open where they can find a form for the circular. In this form, they need to give necessary requirements and the cost of the education in their institution in an academic year. Then they will submit the form.** | **UIE, UID** |
|  | event-4 | **In the dashboard, they can find an admission request option, upon selecting this option they will see the students request to get admitted in their institution. They can see the details and result of the student by clicking on their name, then they can confirm if they will allow the student to get admitted to their institution or not.** | **OP, UIE** |
|  | event-5 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-2, Goal-4** | **Description of Goal-4:** Make board exams seat plan | | **Event Type** |
| Workflow: | event-1 | **Users may follow the log in process to log into their account.** | **VR** |
|  | event-2 | **After the successful login, a dashboard will appear. In this dashboard there will be multiple options including, upload seat plan. To give the seat plan of their institution for a board exam they need to click on this option.** | **UIE** |
|  | event-3 | **Upon clicking on the seat plan option a new window will appear. In this window they can see a form. This form contains the number of rooms, teachers available, how many students they can allow to sit for the exam in their exam hall.** | **UID, UIE** |
|  | event-4 | **They will receive a message with the roll number, registration id and name of the students who will give the exam in their campus. They need to submit a pdf containing the seat plan for the board exam by mentioning who will sit in which room.** | **OP, UID, UIE** |
|  | event-5 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-2, Goal-5** | **Description of Goal-5:** Permit students to register for board exam | | **Event Type** |
| Workflow: | event-1 | **Users may follow the log in process to log into their account.** | **VR** |
|  | event-2 | **After the successful login, a dashboard will appear. In this dashboard there will be multiple options including registration of the board exam.** | **UIE** |
|  | event-3 | **By clicking the registration of the board exam option the user will open a new window where the user can select the name of the board exam for which they want to permit the student to register for their upcoming board exam.** | **UIE** |
|  | event-4 | **By clicking the desired option the user will open a new window where the user can see the name and details of all students who have submitted the registration form for the upcoming board exam. The user will check all the forms if all the information given is correct or not. If any incorrect information is found then they will send a notification for re registration. If everything is okay then they will send a registration bill with a confirmation message to the student.** | **OP, VR, UID, UIE** |
|  | event-5 | **The user will receive the bill from the student in the same window where they can find the list of the students who have paid their registration bill. Now they will send the registration form along with the registration bill to the registration office to confirm the registration.** | **OP, UIE** |
|  | event-6 | **The user will receive the admit card and registration card of the students who have submitted their registration form and bill from the registration office. They will send the admit card and registration card to the student** | **OP, UIE** |
|  | event-7 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-2, Goal-6** | **Description of Goal-6:** Register as a school or college | | Event Type |
| Workflow: | event-1 | **As the user does not have any account, they need to create one. To do that, there will be a button below the login page for creating an account. User needs to select that option.** | **VR** |
|  | event-2 | **A new window will open. Here the user can select what type of account he/she wants to create. By selecting a school/college the registration process will start.** | **UIE** |
|  | event-3 | **A form will pop up in the new window. The form will ask for all the details of the institution and ask for necessary papers to create a school or college. The user must give the papers and details he/she asked for. Then she/he needs to submit the form.** | **UID, UIE** |
|  | event-4 | **A registration bill will be sent to the user with an option to pay the bill. The user may pay their bill to the registrar to complete their registration process.** | **UIE** |
|  | event-5 | **After the registration of the institution, the user will be asked to set a password for their given id. By setting the password for their account the account creation process will end.** | **UID, VL, UIE** |
|  | event-6 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-2, Goal-7** | **Description of Goal-7:** Budget expansion | | **Event Type** |
| Workflow: | event-1 | **User may follow the workflow of login system** | **VR** |
|  | event-2 | **After successful login, user will be taken into a dashboard where he/she can find an option of budget expansion** | **UIE** |
|  | event-3 | **A new window will appear with a form where the user can input their desired budget and type the reason why the proposed budget needs to pass** | **UID, UIE** |
|  | event-4 | **User will receive a notification with the approval or rejection of the budget expansion, user might get an approval of budget expansion with a new budget which is lower than the proposed budget** | **OP, UIE** |
|  | event-5 | **The user may go to the dashboard or logout from the page.** | **UIE** |
|  | | | |
| **User-2, Goal-8** | **Description of Goal-8:** Approve student’s scholarship request and send the request of scholarship office for further confirmation | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **After the successful login, a dashboard will appear. In this dashboard there will be multiple options including Scholarship. To view the scholarship requests the user needs to select this option.** | **UIE** |
|  | event-3 | **In this window the user can see all the requests of scholarship. he/she can filter the scholarship requests based on the type of scholarship the students have requested for. The institution will review all the scholarship requests before passing the form to the scholarship office.** | **OP, VR, UIE** |
|  | event-4 | **After passing the scholarship requests to the scholarship office, the institution will receive a budget for the scholarship along with the name of the students of which scholarship has been approved with the percentage of the scholarship.** | **OP, UIE** |
|  | event-5 | **The institution will send the requested student a confirmation message with the percentage of the scholarship they have received.** | **UID, UIE** |
|  | event-6 | **The user may go to the dashboard or logout from the page.** | **UIE** |

| **User3 name: Head of Examination** | | | |
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| **User-3, Goal-1** | **Description of Goal-1:**  Creating School wise Seating Plan | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **“Allocated School to Exam Venue” button option is selected.** | **UIE, OP** |
|  | event-3 | **A table view will show a list of unallocated schools along with their student numbers.** | **OP, DP** |
|  | event-4 | **A school will be selected by clicking a button which loads the** | **UIE** |
|  | event-5 | **A search method will be performed to check which venue has seats greater than the students of the selected School.** | **DP, OP** |
|  | event-6 | **A table view of the list of applicable Venues is shown.** | **OP** |
|  | event-7 | **The school is allocated to a certain venue from the list by clicking a button.** | **UIE** |
|  | event-8 | **Option to save progress is selected OR event-3 to event-7 is executed.** | **UIE** |
|  | event-9 | **When all schools will be allocated, A button to generate Venue Allocation is clicked. This creates a pdf of the venue allocation of the schools both venue-wise and school-wise. This is sent to the Office Administrator to be published.** | **UIE,DP** |
|  | event-10 | **Logout is performed or another workflow will be executed** | **UIE** |
|  | | | |
| **User-3, Goal-2** | **Description of Goal-2:**  Finalizing the Schedule of Examination and sending it to the Office Administrator to publish. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **An option to create an examination schedule is selected by a button click** | **UIE** |
|  | event-3 | **A form will be shown where Board Exam Title, Subject Code, Subject Title, Date and Time will be selected. “Continue” button is clicked then.** | **OP, UID, UIE** |
|  | event-4 | **Select “Confirm button and add to bucket”. If duplication is found: An alert will be prompted.** | **UIE, OP** |
|  | event-5 | **Event-3 to Event-4 is repeated or the bucket is sent to the Office Administrator by clicking on the “Send Button”** | **UIE** |
|  | event-6 | **Logout is performed or another workflow will be executed** | **UIE** |
|  | | | |
| **User-3, Goal-3** | **Description of Goal-3:**  Generating Statistical Analysis of Exam | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **“Examination Statistics” button is clicked.** | **OP, UIE** |
|  | event-3 | **A scene will be loaded where there will be options to see school wise analysis, grade wise analysis.** | **OP** |
|  | event-4 | **If “School wise analysis” button is selected, Percentage of each grade in that school is shown in a tableview.** | **UIE,OP** |
|  | event-5 | **If “grade wise analysis” button is selected, Percentage of each school achieving that grade is shown in a table view.** | **UIE, OP** |
|  | event-6 | **Logout is performed or another workflow will be executed** | **UIE** |
|  | | | |
| **User-3, Goal-4** | **Description of Goal-4:**  Assigning Invigilators to centers | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **“Assign Invigilators” button is selected.** | **OP, UIE** |
|  | event-3 | **List of Schools with centers unassigned with invigilators is available on a table view.**  **One school at a time is selected by clicking on that school** | **OP, UIE** |
|  | event-4 | **After selecting the school by clicking a button, a list of invigilators for that school is shown on a tableview.** | **OP, UIE** |
|  | event-5 | **After that a table view of centers with unallocated invigilators is seen. A center is chosen by clicking a button.** | **OP, UIE** |
|  | event-6 | **Option to save progress is selected OR event-3 to event-5 is executed.** | **UIE** |
|  | event-7 | **When all invigilators will be assigned. A button “generate Invigilator’s center” is clicked. This creates a pdf of the venue containing the invigilators (school wise and center wise). This is sent to the Office Administrator to be sent to the invigilators.** | **DP** |
|  | event-8 | **Logout is performed or another workflow will be executed** | **UIE** |
|  | | | |
| **User-3, Goal-5** | **Description of Goal-5:**  Receiving Expelled students information and Center Report | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **“Examination Summary” button is selected.** | **OP, UIE** |
|  | event-3 | **Option to see List of expelled students and list of Center Report is viewed.** | **OP** |
|  | event-4 | **If “List of expelled students” button is selected, a table view with details of expelled students is shown along with their center and school.** | **OP, UIE, DP** |
|  | event -5 | **If the list of Center Report is selected, A table view along with if there was any unusual event is shown.** | **OP, UIE, DP** |
|  | event-6 | **If there was any unusual event,option to then a report of that unusual event can be seen in a** | **UIE, OP** |
|  | event-7 | **Logout is performed or another workflow will be executed** | **UIE** |
|  | | | |
| **User-3, Goal-6** | **Description of Goal-6:**  Finalizing Question Set | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **“Question Set” option is selected by clicking a button** | **UIE** |
|  | event-3 | **A scene to provide subject code and paper code is loaded. After providing Subject code and Paper Code, the Submit button is then clicked.** | **OP, UID, UIE** |
|  | event-4 | **A table view of available question sets is loaded** | **OP** |
|  | event-5 | **Question sets are reviewed and one of them is selected as a final paper. By clicking a button And another one is selected as a backup paper by clicking a button** | **UIE, UID** |
|  | event-6 | **Logout is performed or another workflow will be executed** | **UIE** |
|  | | | |
| **User-3, Goal-7** | **Description of Goal-7:**  Provide Marking Scheme to the Examiner | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **“Mark Scheme” button is selected.** | **UIE, OP** |
|  | event-3 | **A table view of the Marking Scheme is seen for a subject and its corresponding paper. A Subject and its paper is chosen by clicking a button** | **OP, UIE** |
|  | event-4 | **Mark Scheme is reviewed.** | **OP** |
|  | event-5 | **Provide examiner’s of the specific subject with the mark scheme of that question paper by clicking the “Release MarkScheme” button.** | **UIE** |
|  | event-6 | **Event-3 to Event-5 is repeated for all the subjects and papers.** |  |
|  | event-7 | **Logout is performed or another workflow will be initiated** | **UIE** |
|  | | | |
| **User-3, Goal-8** | **Description of Goal-8:**  Receiving marksheet from all examiners and combining it to send it for publishing to the Office Administrator | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Click on the “Marksheet” option.** | **UIE, OP** |
|  | event-3 | **A table view is seen containing marksheets from different examiners.** | **OP** |
|  | event-4 | **Marksheet from each examiner can be reviewed by clicking a button and then added to the bucket for combined marksheet by clicking a button.** | **UIE, OP** |
|  | event-5 | **Event-3 to Event-4 is repeated or the bucket is saved by clicking the “save bucket” button.** | **UIE** |
|  | event-6 | **After reviewing all examiner’s marksheet, A combined marksheet can be generated by clicking the “generate combined marksheet” button** | **UIE, DP** |
|  | event-7 | **There will be a download option to download the combined marksheet and send it to the Office Administrator.** | **UIE** |
|  | event-8 | **Logout is performed or another workflow will be initiated** | **UIE** |

| **User4 name: Office Administrator** | | | |
| --- | --- | --- | --- |
| **User-4, Goal-1** | **Description of Goal-1:**  Receiving request for password reset | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Click on the “notification” button.** | **UIE** |
|  | event-3 | **Select “Password Recovery” Option From the scene.** | **UIE** |
|  | event-4 | **Upon Clicking on the Password Recovery Option, A new scene inside this scene “tableview” will be loaded containing all the forget password requests.** | **UIE, OP** |
|  | event-5 | **Then the user will select “an individual request and click on the” reset password button Upon clicking on the “reset password” button by default a password will auto-generate and then a new password will be sent to the Requested user mail.** | **UIE, OP** |
|  | event-6 | **Event-3 to Event-5 is repeated or Logout is performed or another workflow will be Initiated** | **UIE** |
|  | event-7 | **Logout is performed or another workflow will be Initiated** | **UIE** |
|  | | | |
| **User-4, Goal-2** | **Description of Goal-2:**  Publishing received marksheet from the Head of Examination and creating marksheet and publishing on the system. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Select “Notification” button** | **UIE** |
|  | event-3 | **Select “Head of Examination” option.** | **UIE** |
|  | event-4 | **Select “Marksheet” Option.** | **UIE** |
|  | event-5 | **Marksheet is viewed.** | **OP** |
|  | event-6 | **A button to create a grade is present. Clicking that button runs a grade method and assigns a grade to the respective student’s mark.** | **DP, OP** |
|  | event-7 | **A button “save to the database” is present. Clicking on the button. The marks and grade of each student is saved to the system database.** | **UIE** |
|  | event-8 | **Logout is performed or another workflow will be Initiated** | **UIE** |
|  | | | |
| **User-4, Goal-3** | **Description of Goal-3:**  Receiving instructions or proposal approvals from Education Minister | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Click on the “Request” option.** | **UIE** |
|  | event-3 | **Attach a document containing permissions or proposals to be sent to the Education Minister.** | **UID** |
|  | event-4 | **Click on the “Send” button.** | **UIE** |
|  | event-5 | **The request is sent to the Education Minister. The user must wait for the reply.** | **OP** |
|  | event-6 | **Click on the “Notifications” button to check for a reply.** | **UIE** |
|  | event-7 | **Check if the request was approved or rejected or further instructions are sent.** | **OP** |
|  | event-8 | **Logout is performed or another workflow will be Initiated** | **UIE** |
|  | | | |
| **User-4, Goal-4** | **Description of Goal-4:**  Receiving request of assistance from Teachers during installation of examination software and its testing | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Click on the “Notification” button.** | **UIE** |
|  | event-3 | **Select the “Teacher” Button.** | **UIE** |
|  | event-4 | **A scene will be loaded where a request for assistance is seen.** | **UIE** |
|  | event-5 | **People from the Office Administration team are assigned to assist in installation of softwares for the practical exam and other technical issues.** | **UIE** |
|  | event-6 | **Logout is performed or another workflow will be Initiated** | **UIE** |
|  | | | |
| **User-4, Goal-5** | **Description of Goal-5:**  Perform backups of the system. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Before updating the software, “The backup database” button is chosen.** | **UIE** |
|  | event-3 | **The database is prepared for downloading. A scene is loaded where the Office Administrator has to re-enter the password and verification is performed then if successful continue downloading** | **UID, UIE, VR, OP** |
|  | event-4 | **Logout is performed or another workflow will be Initiated** | **UIE** |
|  | | | |
| **User-4, Goal-6** | **Description of Goal-6:**  Hiding results from students before scheduled time. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **The user will select “Disable result search” button** | **UIE** |
|  | event-3 | **Upon clicking on this button, a new scene will appear** | **OP** |
|  | event-4 | **In this user select a date from the date picker and select time duration Start time to end time** | **UIE** |
|  | event-5 | **After selecting the time and date user will click “Disable Result Dashboard” button** | **UIE** |
|  | event-6 | **Upon clicking on this button the result search scene of all users will be temporarily disable for the given time period of selective date.** | **OP** |
|  | event-7 | **Logout is performed or another workflow will be Initiated** | **UIE** |
|  | | | |
| **User-4, Goal-7** | **Description of Goal-7:**  Creating a user account for a new school or college after receiving information from the registrar's office. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Click on the “Notification” button.** | **UIE** |
|  | event-3 | **Select the “Registrar's Office” button.** | **UIE** |
|  | event-4 | **A table view of user’s information from the registrar’s office.** | **OP** |
|  | event-5 | **Click the “Create New User” option. A new window will be prompted.** | **OP, UIE** |
|  | event-6 | **Fill the account registration form containing text fields and combo box with the information received. An initial username and password will be generated depending on the information provided.** | **UID** |
|  | event-7 | **Click Submit and send Username and Password to the Registrar’s Office** | **UIE** |
|  | event-8 | **Logout or Initiate another workflow** | **UIE** |
|  | | | |
| **User-4, Goal-8** | **Description of Goal-8:**  Publishing School Allocation and Exam Schedule received from the Head of Examination. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **UID, UIE, VR, OP** |
|  | event-2 | **Click on the “Notification” button.** | **UIE** |
|  | event-3 | **Select the “Head of Examination” button.** | **UIE** |
|  | event-4 | **A scene will be loaded with School Allocation, Exam Schedule, Invigilator’s center.** | **OP** |
|  | event-5 | **Options to view the Invigilator’s center, School Allocation and Exam Schedule are present. Clicking on this will load the view of School Allocation and Exam Schedule.** | **UIE** |
|  | event-6 | **After viewing, A button to publish is clicked.**  **The School Allocation and Exam Schedule is published to everyone.**  **The Invigilator’s center is published to the invigilator’s only.** | **UIE, DP** |
|  | event-7 | **Logout or Initiate another workflow** | **UIE** |

| **User5 name: Teacher** | | |  |
| --- | --- | --- | --- |
| **User-5, Goal-1** | **Description of Goal-1:** Apply to be an Examiner of the respective Board Exam | |  |
| Workflow: | event-1 | **Check login credential. Users have to type/her ID and password correctly.** | **VR** |
|  | event-2 | **Upon successful login, load “Teacher” specific home scene. Else show an unsuccessful login message.** | **OP** |
|  | event-3 | **The user will now click on the “Apply Examiner” button and this will direct the user to a new window.** | **UIE, OP** |
|  | event -4 | **Here the user will need to fill up a form. In this form, the user needs to fill in the text field - Teacher’s id, Select Respective Exam Title and his or her School/ college name and the subject.**  **After the form has been filled up the user needs to click the “Apply” button.** | **UID, UIE** |
|  | event-5 | **Upon clicking on the “Apply” button, it will check if the teacher’s id is in the database and there must be no blank space in the form. If the information is correctly filled up, next it will check if for the specific subject there is any vacancy available. If there is a vacancy then it will show “Success” or else “Information Missing or Invalid”.** | **VL, OP** |
|  | | |  |
| **User-5, Goal-2** | **Description of Goal-2:** Apply for Government Teacher | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **After successful login, when a user selects “Apply for Govt. Teacher” they will be taken to a new scene** | **OP** |
|  | event-3 | **After successful login, when a user selects “Apply for Govt. Teacher” they will be taken to a new scene** | **UIE, OP** |
|  | event-4 | **Here the user needs to fill up a form. The form will contain labels like Teacher’s id, Subject to teach and The Class Number he wants to teach and beside each label there will be a text field for inputting the user’s choice**  **After the form is filled up the user now needs to click the “Apply” button.** | **UID, UIE** |
|  | event-5 | **After clicking the apply button, it will see the vacancy available for government teachers for the specific class. So if the seat is available then it will show a “Success” Scene or else “No Vacant Seat”.** | **VL, OP** |
|  | | |  |
| **User-5, Goal-3** | **Description of Goal-3:** Submitting Grades | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **After successful login, when the user selects “Submitting Grades” they will be taken to a new scene** | **OP** |
|  | event-3 | **The scene will contain a text field to specify the subject and a combo box (HSC, SSC or JSC) after selecting the respective board and filling up the subject text field, the user now needs to select the “show” button.** | **UIE, OP** |
|  | event-4 | **Upon clicking the “show” button the user will see the list of student’s inside a TableView. Here the list will contain students ID and Name. First select a student from the table and click the “Show Detail” button will take the user to the next scene.** | **UID, UIE** |
|  | event-5 | **The next scene will contain two labels one for displaying the student’s ID and another one for the selected subject. And the scene will also contain a text field beside the Subject label. The teacher can now insert the grade in the text field and select the “Submit button” . Upon clicking the submit the new window will close down.** | **VL, OP** |
|  | | |  |
| **User-5, Goal-4** | **Description of Goal-4:** Apply for being an Invigilator | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **After successful login, when the user selects “Apply for Invigilator” they will be taken to a new scene** | **OP** |
|  | event-3 | **The new scene will contain a form. In the form the user needs to fill up this information in a text field - Teacher’s id, School/College EIN Number and choose an option from the combo box(JSC or HSC or SSC).**  **After filling up the form the user now needs to click the “Apply” button.** | **UIE, OP** |
|  | event-4 | **Upon clicking the Apply Button it will check if in any institution there is vacancy for the invigilator. If there are vacancies then institution names will be displayed in a TableView.**  **User can select a institution and click the “Apply” button which will confirm the enrollment and decrement the vacancy number.** | **UID, UIE** |
|  | | |  |
| **User-5, Goal-5** | **Description of Goal-5:** Apply to change the institution | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **After successful login, when the user selects “Change Institution” they will be taken to a new scene** | **OP** |
|  | event-3 | **In the new window the teacher needs to provide his current Institution EIN number and teacher’s ID in a separate text field and click the “next” which will take the user to a new scene.** | **UIE** |
|  | event-4 | **If the information is incorrect in the previous scene (Not found the teacher’s Database ”teacher.bin”) then there will be a window showing “Invalid Teacher’s ID” where there will be a “Back” button which will take the user to the previous window. If the information is correct it will go to the next scene.** | **OP, UIE** |
|  | event-5 | **In this scene the user needs to provide the EIN Number of the institution to which he wants to be transferred. After filling up the information the user now needs to click the “Submit” button.** | **DP** |
|  | event-6 | **If the EIN number is correctly provided, it will check the vacancy for that specific school. If vacancy is available then a new window will pop up saying “Success” or else “No Vacant Seat”.** | **VR** |
|  | | |  |
| **User-5, Goal-6** | **Description of Goal-6:** Apply for checking HSC or JSC or SSC Exam Copy | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **After successful login, when the user selects “Apply To Check Copy” they will be taken to a new scene** | **OP** |
|  | event-3 | **The scene will contain a text field to specify the subject and a combo box option (HSC, SSC or JSC), after selecting the respective board and filling up the subject text field, the user now needs to select the “next” button.** | **UIE, OP** |
|  | event-4 | **Here the user will need to fill up two text fields. First text field is for - Teacher’s id and the next text field is for his or her School/ college EIN number.**  **After the form is filled up the user now needs to click the “Apply” button.** | **UID, UIE** |
|  | event-5 | **If the form is filled up correctly without any blank information then it will check if the Teacher’s id is in the database, if there is no issues with that there will be a screen showing “Success”. But if there is any information missing then a screen will show “Information Missing” and if the teacher’s id is invalid then a screen will show “The teacher’s Id is invalid”.** | **VL, OP** |
|  | | |  |
| **User-5, Goal-7** | **Description of Goal-7:** Receive Exam Script for Checking | |  |
| Workflow: | event-1 | **After successful login, when the user selects “Exam Scripts” they will be taken to a new scene** | **VR** |
|  | event-2 | **The user will now see a list of Exam Script’s serial number in a Table. After selecting a row from the table the user needs to click the “Detail” button which will take the user to a new window.** | **OP** |
|  | event-3 | **A new window will pop up where the student’s scanned exam copy is displayed. Now after checking the copy the teacher will be provided a text field where the marks could be given and then the teacher could click the “Submit” button.** | **UIE** |
|  | event-4 | **After successfully submitting the mark the user will be again redirected to the Exam Script tab where the user can again select a certain serial number.** | **OP, UIE** |
|  | | |  |
| **User-5, Goal-8** | **Description of Goal-8:** Class Schedules | |  |
| Workflow: | event-1 | **Check login credential. Users have to type his/her ID and password correctly.** | **VR** |
|  | event-2 | **Upon successful login, load “Teacher” specific home scene. Else show an unsuccessful login message.** | **OP** |
|  | event-3 | **The user will now click on the “Class Schedules” button from the dashboard and this will direct the user to a new window.** | **UIE** |
|  | event-4 | **In this new window the user can view the class timings and also the time remaining for the next class.** | **OP, UIE** |

| **User6 name: Registrar Office** | | |  |
| --- | --- | --- | --- |
| **User-6, Goal-1** | **Description of Goal-1:** Confirm the Enrollment of a Student for JSC or HSC or SSC | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **Upon successful login, load “Registrar Office” specific home scene. Else show an unsuccessful login message.** | **OP** |
|  | event-3 | **Here in the given dashboard when the user clicks the “Confirming Enrollments”, they will be redirected to a new scene.** | **UIE** |
|  | event-4 | **Here the user will see a TableView where there is a list of students' names and their ID. Select a row and click the “Confirm” button.** | **OP, UIE** |
|  | event-5 | **Upon clicking the button it will check if the registration bill has been provided. If the bill is given then add the student’s information to the “Enrollment” database.** | **DP** |
|  | | |  |
| **User-6, Goal-2** | **Description of Goal-2:** Register New Institution | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **If login is successful, Registrar’s Office landing scene will be loaded** | **UP** |
|  | event-3 | **select the option “Register an Institution”** | **UIE** |
|  | event-4 | **In this scene, a random EIIN id will be generated to the Institution and necessary information should also be provided like: The Institution Name, Location and establishment time. After that the user needs to click the “Apply” button.** | **DP, UID, UIE** |
|  | event-6 | **Now the data is saved in the “Institution” Database.** | **DP** |
|  | | |  |
| **User-6, Goal-3** | **Description of Goal-3:** Prepare Registration Card for Individual Student | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **If login is successful, Registrar’s Office landing scene will be loaded** | **OP** |
|  | event-3 | **select the option “Prepare Registration Card”** | **UIE** |
|  | event-4 | **In this scene, the user will Input a school EIIN id. If the EIIN number does not exist in the database an alert will be generated (“EIIN number Not found”) else if the EIIN number exists then a table will be loaded containing all the student lists of that school whose registration is confirmed by the register’s office in register’s office goal-4. The student lists will contain the student’s school serial No and student name.** | **UID, VL, VR, OP** |
|  | event-5 | **After that user will click an Individual id and then a button “Generate registration card” will be shown.** | **UIE** |
|  | event-6 | **Upon clicking on the Generate registration card button a unique student registration no will be auto-generated and the registration card form will be filled by using the student additional information.** | **OP, UID** |
|  | event-7 | **After that the user will click on confirm registration card. Upon clicking on the Confirm registration card button the registration card will be generated.** | **UIE, OP** |
|  | event-8 | **Event-4 to Event-7 is repeated or Logout is performed or another workflow will be executed** | **UIE, OP** |
|  | | |  |
| **User-6, Goal-4** | **Description of Goal-4:** Prepare Admit Card for Individual Student | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **if login is successful, Registrar’s Office landing scene will be loaded** | **OP** |
|  | event-3 | **select the option “Prepare Admit Card”** | **UIE** |
|  | event-4 | **In this scene, the user will Input a school EIIN id. If the EIIN number does not exist in the database an alert will be generated (“EIIN number Not found”) else if the EIIN number exists then a table will be loaded containing all the student lists of that school whose registration is confirmed by the register’s office in register’s office goal-4. The student lists will contain the student registration Id and student name. Student Registration Id will be unique and it will be auto-generated in the register’s office goal-4.** | **UID, DP, OP** |
|  | event-5 | **After that user will click an Individual id and then a button “Generate admit card” will be shown.** | **UIE, OP** |
|  | event-6 | **Upon clicking on the Generate admit card button a unique student roll no will be auto-generated and the admit card form will be filled by using the student additional information.** | **OP, UID** |
|  | event-7 | **After that the user will click on the confirm admit card. Upon clicking on the Confirm admit card button the admit card will be generated.** | **UIE, OP** |
|  | event-8 | **Event-4 to Event-7 is repeated or Logout is performed or another workflow will be executed** | **UIE, OP** |
|  | | |  |
| **User-6, Goal-5** | **Description of Goal-5:** View Student’s personal Information according to Correction Request. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **Upon successful login, load “Registrar” specific home scene. Else show an unsuccessful login message.** | **OP** |
|  | event-3 | **Here in the given dashboard when the user clicks the “Student’s Request”, they will be redirected to a new scene.** | **UIE** |
|  | event-4 | **Now the user could view a list of student’s id who wants to change their personal information in a TableView. By selecting an ID And clicking the “Show” button it will take the user to a new window.** | **OP, UIE** |
|  | event-5 | **The new window will contain the information which the student wants to change. If the reason for changing the information is valid then the user needs to click the “Accept” button.** | **OP, VL, UIE** |
|  | event-6 | **After clicking the “Accept” button a window will pop up saying “Information will be updated” and also clicking the button will send the student’s ID to the “Update Student” database.** | **UIE, DP, OP** |
|  | | |  |
| **User-6, Goal-6** | **Description of Goal-6:** Update Student Information Correction Application | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **Upon successful login, load “Registrar” specific home scene. Else show an unsuccessful login message** | **OP** |
|  | event-3 | **Here in the given dashboard when the user clicks the “Update Student’s Info”, they will be redirected to a new scene.** | **UIE** |
|  | event-4 | **In this window the user will see a list of student’s id which are to be updated in a Table. The user will select an id and click the “Details” button which will trigger another new window.** | **OP, UIE** |
|  | event-5 | **In this scene the student’s profile will be loaded from the Student Database. Now the user can edit the information needed to be changed and after editing the user can now click the “Update” button.** | **UID, UIE** |
|  | event-6 | **After clicking the “Update” button it will update the “Student database”.** | **OP** |
|  | | |  |
| **User-6, Goal-7** | **Description of Goal-7:** Handle Student’s Migration School or College Change. | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **Upon successful login, load “Registrar” specific home scene. Else show an unsuccessful login message.** | **OP** |
|  | event-3 | **Here in the given dashboard when the user clicks the “Handle Student’s Migration”, they will be redirected to a new scene.** | **UIE, OP** |
|  | event-4 | **In this scene the user will view a bunch of Student’s ID in a TableView. Select a student’s id and click the “Next” button which will provide a new scene.** | **UIE, OP** |
|  | event-5 | **In this new window the user can verify whether his/her previous institution has provided them a TC and if the new institution accepted the student. After checking the information the user now needs to click the “Allow” button.** | **VL, UIE** |
|  | event-5 | **This will trigger a mail to the student saying “Institution is successfully changed”.** | **OP** |
|  | | |  |
| **User-6, Goal-8** | **Description of Goal-8:** Proposal to Change the Registration Bill | |  |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **Upon successful login, load “Registrar” specific home scene. Else show an unsuccessful login message.** | **OP** |
|  | event-3 | **Here in the given dashboard when the user clicks the “Change Registration Bill”, they will be redirected to a new scene.** | **UIE, OP** |
|  | event-4 | **Now the user will have to fill up a form. The form will contain the reason for changing the Registration Bill and then the proposal bill will be provided in another text field. After completing, the user will now click the “Submit” button.** | **UID, UIE** |
|  | event-5 | **If the form is filled up correctly then a successful window will be shown or else there will be a window saying “Error” And there will be a “Back” button by clicking the button it will redirect to the previous window.** | **VL, OP** |

| **User7 name: Education Minister** | | | |
| --- | --- | --- | --- |
| **User-7, Goal-1** | **Description of Goal-1:** View the percentage of pass & fail as overall and by gender, year and institution based on public exam option. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh and load to a new scene. This scene will contain the options of public exams as Buttons to choose from.** | **OP** |
|  | event-5 | **Select the public exam option with a mouse click to view the respective exam results.** | **UIE** |
|  | event-6 | **The window will refresh to a new scene containing the statistics of the chosen public exam results. The statistics include the percentage of students who passed, the percentage of students who failed as an overall of all institutions. These two percentages will be shown in Labels.** | **DP, OP** |
|  | event-7 | **There is a filter option in this scene which are: ‘By Overall’, ‘By Gender’, ‘By Year’ and ‘By Institution’. The filters are stored in a ComboBox. The user can select one of these options. The ‘By Overall’ option is already viewed as default.** | **OP** |
|  | event-8 | **Selecting any of the filter options will refresh the current scene and view the respective exam results according to the filter chosen.**  **For the filters ‘By Year’ and ‘By Institution’, the scene will show a list of years/institutions in TableView to choose the year/institution whose result statistics the user wants to view. Clicking one of the years/institutions will refresh the scene and show the statistics for that respective year/institution.** | **UIE, DP, OP** |
|  | event-9 | **There will be a download Button in all the statistics scenes to download the statistics shown in that current open scene.** | **UIE** |
|  | event-10 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-7, Goal-2** | **Description of Goal-2:** View the student count list of each institution. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The scene will refresh showing a list of the institutions with their respective student counts in TableView.** | **DP, OP** |
|  | event-5 | **There will be a download Button in this scene to download the statistics shown in the current open scene.** | **UIE** |
|  | event-6 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-7, Goal-3** | **Description of Goal-3:** View counts of male & female in each institution and overall of the current year and based on public exam option. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh and load to a new scene. This scene will contain the options of public exams as Buttons to choose from.** | **OP** |
|  | event-5 | **Select the public exam option with a mouse click to view the gender counts of that respective exam.** | **UIE** |
|  | event-6 | **The window will refresh showing the statistics. The statistics include the total student count, the total male student count and the total female student count as an overall of all institutions. The counts will be shown in Labels.** | **DP, OP** |
|  | event-7 | **There is a filter option in this scene which are: ‘By Overall’ and ‘By Institution’. The filters are stored in a ComboBox. The user can select one of these options.** | **OP** |
|  | event-8 | **Selection of ‘By Institution’ will refresh the current scene and view a list of institutions to choose from in a TableView.** | **UIE, OP** |
|  | event-9 | **Clicking on one of the institutions from the list will refresh the page again and show the statistics of that respective institution for the total student count and gender counts. These statistics are also shown in Labels.** | **UIE, OP** |
|  | event-10 | **There will be a download Button in all the statistics scenes to download the statistics shown in that current open scene.** | **UIE** |
|  | event-11 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-7, Goal-4** | **Description of Goal-4:** View teacher and staff counts in each institution. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The current scene will refresh to a new scene containing the chosen goal option. This scene will contain the list of institutions to choose from in a TableView.** | **OP** |
|  | event-5 | **Select an institution with a mouse click to view the teacher and staff list of the respective institution.** | **UIE** |
|  | event-6 | **The scene will refresh with the total teacher count in a Label, the total staff count in a Label, and a list of names of these personnel in a TableView of the respective institution.** | **OP** |
|  | event-7 | **There will be a download Button in all the statistics scenes to download the statistics shown in that current open scene.** | **UIE** |
|  | event-8 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-7, Goal-5** | **Description of Goal-5:** View, set & adjust institution budget & only view scholarship budget of each institution. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The current scene will refresh to a new scene containing the chosen goal option. This scene will contain the list of institutions to choose from in a TableView.** | **OP** |
|  | event-5 | **Select an institution with a mouse click to view the institution & scholarship budget of the respective institution.** | **UIE** |
|  | event-6 | **The scene refreshes to view the institution & scholarship budget in Labels of the chosen institution. Under the ‘Institution Budget’ section, the user can access options where the budget can be changed by typing in the amount in a TextField.** | **OP** |
|  | event-7 | **If the budget needs to be changed, the user needs to type in the new amount in a TextField and the “Confirm” Button clicked by the user, a re-confirmation pop-up dialog box will appear where the user needs to click the “Confirm” Button once more.**  **Additionally, the change will be reported back to the institution.** | **UIE, UID, OP** |
|  | event-8 | **There will be a download Button in all the institution scenes to download the budgets shown in that current open scene.** | **UIE** |
|  | event-9 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-7, Goal-6** | **Description of Goal-6:** Approve or deny requests for requirements e.g., teachers, staff, materials, budgets of each institution. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The scene will refresh and contain a list of requests from institutions in a TableView. The requests will include asking for changes in budget, requesting materials, or personnel such as staff and teachers. There will be a Button to select a request.** | **OP** |
|  | event-5 | **Clicking on a request and Button will refresh the window and a new scene will appear where the details of the request in a TextArea along with two Buttons to choose from: Approve & Deny.** | **UIE, OP** |
|  | event-6 | **Choosing one of the options with a mouse click will relay the answer back to the institution as a notification informing if their request was approved or denied. There will be a Button at the bottom of these scenes to go back to the list of requests.** | **UIE** |
|  | event-7 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-7, Goal-7** | **Description of Goal-7:** Approve, deny, or request for alteration of official documents e.g., bills, or proposals. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh and load to a new scene. This scene will contain a list of all the official documents and proposals in a TableView which are sent by the head of examinations or any valid users.** | **OP** |
|  | event-5 | **Clicking on a document/proposal will refresh the window and a new scene will appear where the details of the documents are shown in a TextArea along with three buttons to choose from: Approve, Deny & Request for Alteration.** | **UIE, OP** |
|  | event-6 | **Choosing one of the options will relay the answer back to the user as a notification informing if their request was approved or denied or if the document was requested to be altered.**  **If the option ‘Request for Alteration’ is selected, a new scene will appear where the user can type in the instructions of changes required and then click the confirm button to relay the answer.**  **There will be a Button at the bottom of these scenes to go back to the list of requests.** | **UIE, UID** |
|  | event-7 | **There will be a download Button in all the document scenes to download the current open document.** | **UIE** |
|  | event-8 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-7, Goal-8** | **Description of Goal-8:** View rankings of all the institutions. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh to a new scene containing a ranked list of all the institutions under the Education Board in a TableView.** | **OP** |
|  | event-5 | **There will be a download Button to download the ranked list shown in the scene.** | **UIE** |
|  | event-6 | **There will be Buttons at the bottom of the scene with which the user may log out or go back to the user home dashboard.** | **UIE** |

| **User8 name: Scholarship Office** | | | |
| --- | --- | --- | --- |
| **User-8, Goal-1** | **Description of Goal-1:** View the total and scholarship student counts & the scholarship students list by each institution. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh and load to a new scene. This scene will contain the options of public exams as Buttons to choose from.** | **OP** |
|  | event-5 | **Select the public exam option with a mouse click to view the student counts of that respective exam.** | **UIE** |
|  | event-6 | **A new scene will appear which will show the overall total student count and overall scholarship student count in Labels & the list of institutions in a TableView.** | **DP, OP** |
|  | event-7 | **Select the institution to refresh the scene and view the scholarship student list of the respective institution in a TableView.** | **UIE, OP** |
|  | event-8 | **There will be a download Button in all the institution options to download the scholarship student list shown in the current open scene.** | **UIE** |
|  | event-9 | **There will be Buttons at the bottom of the scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-8, Goal-2** | **Description of Goal-2:** View personal information of students. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The current scene will refresh to a new scene containing the chosen goal option. This scene will contain the list of institutions to choose from in a TableView.** | **OP** |
|  | event-5 | **Select an institution with a mouse click to view the list of students of the respective institution.** | **UIE** |
|  | event-6 | **A new scene will appear where the list of students in the respective institution will be shown in a TableView.** | **OP** |
|  | event-7 | **Select a student with a mouse click to view their personal information.** | **UIE** |
|  | event-8 | **The window will refresh to a new scene showing the personal information about the selected student. This information is viewed in a TextArea.** | **OP** |
|  | event-9 | **There will be Buttons at the bottom of the scene with which the user may log out, go to this goal’s main first scene or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-8, Goal-3** | **Description of Goal-3:** View the academic progress results of scholarship students. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The current scene will refresh to a new scene containing the chosen goal option. This scene will contain the list of institutions to choose from in a TableView.** | **OP** |
|  | event-5 | **Select an institution with a mouse click to view the list of scholarship students of the respective institution.** | **UIE** |
|  | event-6 | **A new scene will appear where the list of students in the respective institution will be shown in a TableView.** | **OP** |
|  | event-7 | **Select a student with a mouse click to view their academic results.** | **UIE** |
|  | event-8 | **The window will refresh to a new scene showing the academic results about the selected student. This information is viewed in a TextArea.** | **OP** |
|  | event-9 | **There will be Buttons at the bottom of the scene with which the user may log out, go to this goal’s main first scene or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-8, Goal-4** | **Description of Goal-4:** Approve or deny requests for scholarship of a student. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh and load to a new scene. This scene will contain a list of requests from institutions in a TableView. The requests are to provide scholarships to students.**  **The user may make the use of the previous two goals to decide if the scholarship request is approved or denied.** | **OP** |
|  | event-5 | **Clicking on a request will refresh the window and a new scene will appear where the details of the requests are present in a TextArea along with two buttons to choose from: Approve & Deny.** | **UIE, OP** |
|  | event-6 | **Choosing one of the options will relay the answer back to the institution and the student as a notification informing if their request was approved or denied. There will be a Button at the bottom of these scenes to go back to the list of requests.** | **UIE** |
|  | event-7 | **There will be Buttons at the bottom of the scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-8, Goal-5** | **Description of Goal-5:** View rankings of institutions. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh to a new scene containing a ranked list of all the institutions under the Education Board in a TableView.** | **OP** |
|  | event-5 | **There will be a download Button to download the ranked list shown in the scene.** | **UIE** |
|  | event-6 | **There will be Buttons at the bottom of the scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-8, Goal-6** | **Description of Goal-6:** View the institution & scholarship budgets of each institution. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The current scene will refresh to a new scene containing the chosen goal option. This scene will contain the list of institutions to choose from in a TableView.** | **OP** |
|  | event-5 | **Select an institution with a mouse click to view the institution & scholarship budget of the respective institution.** | **UIE** |
|  | event-6 | **There will be a download Button in all the institution scenes to download the budgets shown in that current open scene.** | **UIE** |
|  | event-7 | **There will be Buttons at the bottom of every scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-8, Goal-7** | **Description of Goal-7:** Approve or deny requests of institutions to increase scholarship budgets. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The window will refresh and load to a new scene. This scene will contain a list of requests from institutions in a TableView. The requests are to increase scholarship budgets.** | **OP** |
|  | event-5 | **Clicking on a request will refresh the window and a new scene will appear where the details of the requests are present in a TextArea along with two buttons to choose from: Approve & Deny.** | **UIE** |
|  | event-6 | **Choosing one of the options will relay the answer back to the institution as a notification informing if their request was approved or denied. There will be a Button at the bottom of these scenes to go back to the list of requests.** | **UIE** |
|  | event-7 | **There will be Buttons at the bottom of the scene with which the user may log out or go back to the user home dashboard.** | **UIE** |
|  | | | |
| **User-8, Goal-8** | **Description of Goal-8:** Add or remove scholarship of students. | | **Event Type** |
| Workflow: | event-1 | **Workflow of the login process will be executed.** | **VR** |
|  | event-2 | **The home dashboard scene for this user will appear with the user’s name and ID in Labels and all the goal related options as Buttons to choose from.** | **OP** |
|  | event-3 | **Select one of the Buttons with a mouse click to view the respective goal scene and work there.** | **UIE** |
|  | event-4 | **The current scene will refresh to a new scene containing the chosen goal option. This scene will contain the list of institutions to choose from in a TableView.** | **OP** |
|  | event-5 | **Select an institution with a mouse click to view the list of students of the respective institution.** | **UIE** |
|  | event-6 | **The scene will refresh and show the list of students from the respective institution in a TableView with the status of if the student holds a scholarship or not. There will be two Buttons beside each name which will be used to ‘Add’ or ‘Remove’ scholarship for the respective student.** | **DP, OP** |
|  | event-7 | **If the ‘Add’ option is selected, the scene will appear with a TextField to type in the scholarship amount. There will be a confirm Button to finalize the process.** | **UIE, UID** |
|  | event-8 | **After one of the options ‘Add’ or ‘Remove’ is selected and finalized, a reply will be relayed back to the student as a notification informing the change in their scholarship status.** | **OP** |
|  | event-9 | **There will be Buttons at the bottom of the scene with which the user may log out or go back to the user home dashboard.** | **UIE** |