

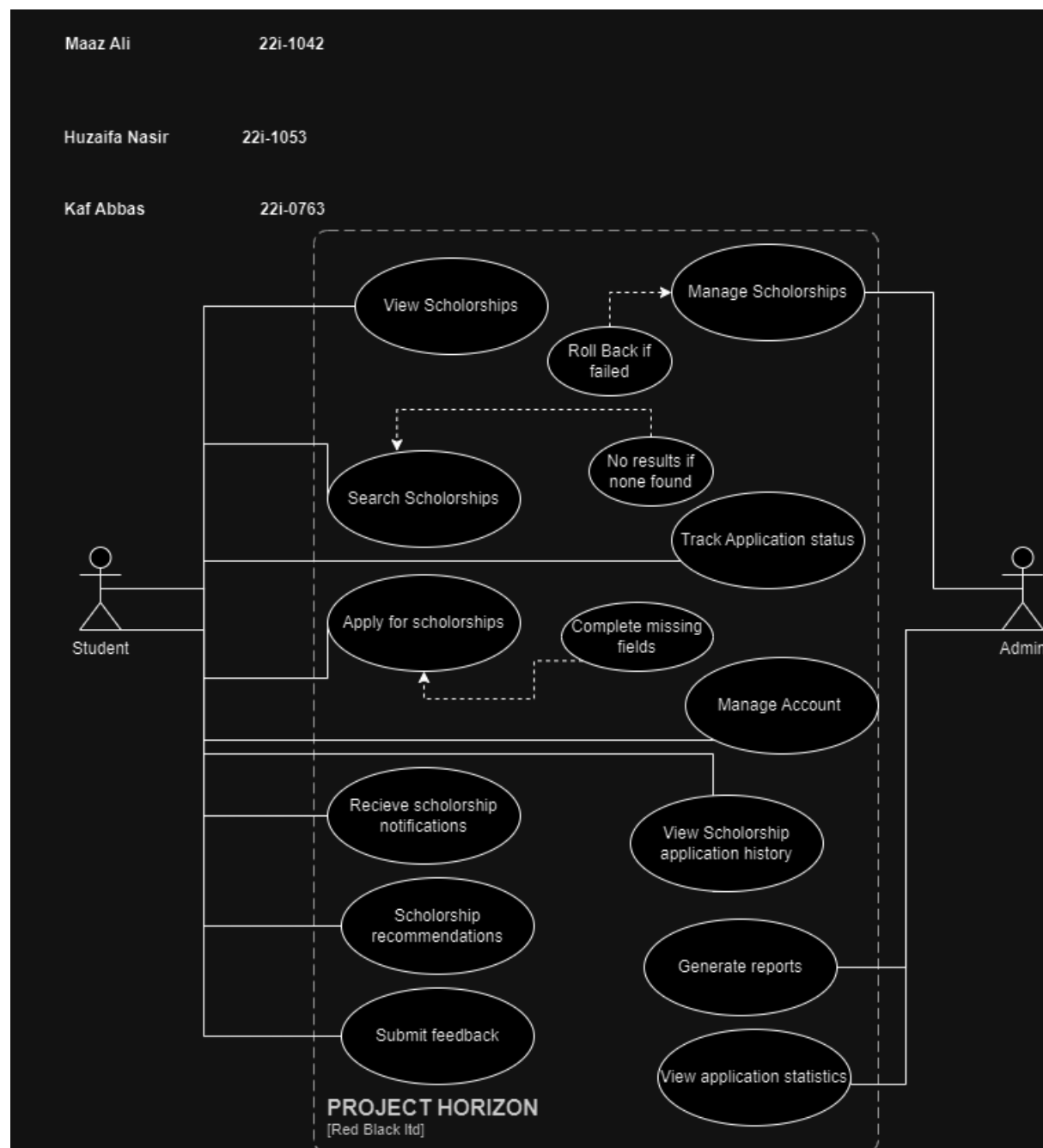
SDA

Deliverable#03

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Use Case Diagram:



Use Case 1: Manage Scholarships

- **Scope:** Scholarship Finder System
- **Level:** High-level user goal
- **Primary actor:** Admin
- **Stakeholders and interests:**
 - **Admin:** Wants to keep the scholarship database up to date and accurate.

- **Students:** Rely on the accuracy and timeliness of scholarship listings.
- **Preconditions:** Admin is logged in with necessary privileges.
- **Postconditions:** The scholarship database is successfully updated.

Actor Action (Admin)	System Responsibility
1. Admin logs into the system.	2. System verifies credentials and grants access.
3. Admin navigates to the "Manage Scholarships" section.	4. System displays a list of existing scholarships.
5. Admin selects to add, update, or delete a scholarship.	6. System provides the relevant form for the selected action.
7. Admin submits changes.	8. System validates the changes and updates the scholarship database.
9. Admin receives confirmation of successful changes.	10. System logs the actions and updates the scholarship list.

Extensions:

- 6a. If invalid data is entered, the system prompts the admin to correct it.
- 8a. If the update fails, the system rolls back changes and shows an error message.

Use Case 2: View Scholarships

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to view available scholarships that fit their academic and personal profile.
 - **Admin:** Ensures the system provides accurate scholarship listings.
- **Preconditions:** The student is logged in or browsing as a guest.

- **Postconditions:** A list of scholarships is displayed based on the user's filter criteria.

Actor Action (Student)	System Responsibility
1. Student logs in or accesses the system as a guest.	2. System verifies credentials or allows guest access.
3. Student navigates to the "View Scholarships" section.	4. System retrieves and displays the list of available scholarships.
5. Student filters or sorts scholarships by criteria (e.g., deadline, country).	6. System applies the filters and updates the displayed list.
7. Student views details of a selected scholarship.	8. System displays the selected scholarship's detailed information.

Extensions:

- 6a. If no scholarships match the filters, the system shows a "No results found" message.
- 8a. If the system fails to retrieve details, it shows an error message.

Use Case 3: Search Scholarships

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to search for scholarships that match specific criteria, such as academic level, field of study, or country.
 - **Admin:** Ensures that search functionality is efficient and accurate.
- **Preconditions:** The student is logged in or browsing as a guest.
- **Postconditions:** The search results are displayed according to the student's input criteria.

Actor Action (Student)	System Responsibility
1. Student logs in or accesses the system as a guest.	2. System verifies credentials or allows guest access.
3. Student navigates to the "Search Scholarships" section.	4. System provides a search form for entering criteria.
5. Student enters search criteria (e.g., academic level, field of study).	6. System processes the search and retrieves matching scholarships.
7. Student views the list of search results.	8. System displays scholarships that match the search criteria.

Extensions:

- 6a. If no scholarships match the search criteria, the system shows a "No results found" message.
- 8a. If the search fails due to a system error, an error message is displayed.

Use Case 4: Apply for Scholarships

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to apply for scholarships they are eligible for without missing deadlines.
 - **Admin:** Ensures that students have access to accurate scholarship details and a smooth application process.
- **Preconditions:** The student is logged in and has selected a scholarship to apply for.
- **Postconditions:** The application is submitted and confirmation is provided to the student.

Actor Action (Student)	System Responsibility
1. Student logs into the system.	2. System verifies credentials and grants access.
3. Student navigates to a scholarship they want to apply for.	4. System displays the application form for the scholarship.
5. Student fills out the application and uploads necessary documents.	6. System validates the form and documents.
7. Student submits the application.	8. System submits the application to the relevant database and confirms submission.

Extensions:

- 5a. If required fields or documents are missing, the system prompts the student to complete them.
- 6a. If validation fails, the system informs the student to correct errors before submission.

Use Case 5: Track Application Status

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to keep track of their scholarship application status to stay informed about the process.
 - **Admin:** Provides accurate status updates on scholarship applications.
- **Preconditions:** The student has submitted one or more scholarship applications.
- **Postconditions:** The student is able to view the current status of their applications.

Actor Action (Student)	System Responsibility
1. Student logs into the system.	2. System verifies credentials and grants access.
3. Student navigates to the "Application Status" section.	4. System retrieves the status of all the student's scholarship applications.
5. Student views the status (e.g., Submitted, Under Review, Approved, Rejected).	6. System displays the status of all applications in real-time.

Extensions:

- 4a. If no applications are found, the system displays a message saying "No applications found."
- 6a. If there is a system error, the system informs the student and logs the error for admin review.

Use Case 6: Manage Account (Includes Reset Password)

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to manage their profile, update personal information, and manage security settings.
 - **Admin:** Ensures that student data is securely stored and can be updated without compromising security.
- **Preconditions:** The student is logged into their account.
- **Postconditions:** The student's account information is successfully updated.

Actor Action (Student)	System Responsibility
1. Student logs into their account.	2. System verifies credentials and grants access.

Actor Action (Student)	System Responsibility
3. Student navigates to the account management section.	4. System displays options for managing personal details or resetting the password.
5. Student updates account information or requests a password reset.	6. System validates the new data or sends a password reset link via email.
7. Student confirms changes (or completes password reset via the link).	8. System applies the changes and confirms the update/reset was successful.

Extensions:

- 6a. If invalid data is entered (e.g., incorrect email format), the system prompts the student to correct it.
- 6b. If the password reset link expires, the system asks the student to request a new one.

Use Case 7: Receive Scholarship Notifications

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to receive timely notifications about new scholarships, deadlines, and status updates.
 - **Admin:** Ensures that notifications are sent to users accurately and promptly.
- **Preconditions:** The student is logged in and has enabled notifications for scholarships of interest.
- **Postconditions:** The student receives notifications through their preferred method (email, in-app, or SMS).

Actor Action (Student)	System Responsibility
1. Student logs into the system and navigates to notification preferences.	2. System retrieves the student's notification settings.
3. Student configures preferences for receiving updates (e.g., via email or SMS).	4. System stores the preferences and applies them.
5. When new scholarships or updates occur, the system triggers a notification.	6. Student receives real-time notifications about relevant scholarships.

Extensions:

- 5a. If the notification system fails, the student is informed, and the error is logged for admin resolution.

Use Case 8: Scholarship Recommendations

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to receive personalized recommendations for scholarships based on their profile.
 - **Admin:** Ensures that recommendation algorithms are accurate and helpful to students.
- **Preconditions:** The student has completed their profile.
- **Postconditions:** The student receives a list of recommended scholarships.

Actor Action (Student)	System Responsibility
1. Student logs into the system.	2. System verifies credentials and grants access.
3. Student navigates to the "Scholarship Recommendations" section.	4. System analyzes the student's profile and past search behavior.

Actor Action (Student)	System Responsibility
5. Student views personalized recommendations.	6. System displays a list of scholarships tailored to the student's profile.

Extensions:

- 4a. If no relevant scholarships are found, the system informs the student with a "No recommendations available" message.

Use Case 9: View Scholarship Application History

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to review their past scholarship applications and the outcomes (e.g., accepted, rejected).
 - **Admin:** Ensures accurate record-keeping and access to historical application data.
- **Preconditions:** The student has applied for one or more scholarships.
- **Postconditions:** The student's application history is displayed, showing outcomes and any related feedback.

Actor Action (Student)	System Responsibility
1. Student logs into the system.	2. System verifies credentials and grants access.
3. Student navigates to the "Application History" section.	4. System retrieves and displays a list of previous scholarship applications.
5. Student reviews the outcome of each application.	6. System shows the final status (e.g., Accepted, Rejected) and related details.

Extensions:

- 4a. If no past applications are found, the system shows a message indicating "No application history available."

- 6a. If there is an error retrieving history, the system shows an error message.
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Use Case 10: Generate Reports (Admin)

- **Scope:** Scholarship Finder System
- **Level:** High-level user goal
- **Primary actor:** Admin
- **Stakeholders and interests:**
 - **Admin:** Wants to generate reports on scholarships, student participation, and system usage statistics.
 - **Students:** Indirectly benefit from improvements based on data-driven insights.
- **Preconditions:** Admin is logged in and has access to reporting features.
- **Postconditions:** The desired report is generated and available for download or viewing.

Actor Action (Admin)	System Responsibility
1. Admin logs into the system.	2. System verifies admin credentials and grants access.
3. Admin navigates to the "Reports" section.	4. System displays available report options (e.g., user statistics, scholarship trends).
5. Admin selects the type of report to generate.	6. System processes the request and generates the report.
7. Admin views or downloads the report.	8. System provides the report in a downloadable format (e.g., PDF).

Extensions:

- 6a. If the system lacks sufficient data to generate the report, a message is displayed: "No data available."
 - 7a. If report generation fails, the system displays an error message and logs the error.
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Use Case 11: Submit Feedback

- **Scope:** Scholarship Finder System
- **Level:** User goal
- **Primary actor:** Student
- **Stakeholders and interests:**
 - **Student:** Wants to provide feedback on their experience with the system or a specific scholarship application.
 - **Admin:** Collects feedback to improve the system or address user concerns.
- **Preconditions:** The student is logged into the system.
- **Postconditions:** Feedback is submitted, and the admin is notified.

Actor Action (Student)	System Responsibility
1. Student logs into the system.	2. System verifies credentials and grants access.
3. Student navigates to the "Submit Feedback" section.	4. System provides a form for submitting feedback (e.g., on a specific scholarship or overall experience).
5. Student fills out and submits the feedback form.	6. System validates the submission and logs it in the feedback database.
7. Student receives confirmation of feedback submission.	8. System notifies the admin of new feedback.

Extensions:

- 5a. If any required fields are missing, the system prompts the student to complete them.
- 7a. If feedback submission fails, the system shows an error message and prompts the student to try again.

Use Case 12: View Application Statistics (Admin)

- **Scope:** Scholarship Finder System

- **Level:** High-level user goal
- **Primary actor:** Admin
- **Stakeholders and interests:**
 - **Admin:** Wants to view statistics on how many students have applied for scholarships, popular scholarships, and user engagement.
 - **Students:** Indirectly benefit from improvements made based on this data.
- **Preconditions:** Admin is logged in and has access to the statistics section.
- **Postconditions:** Statistics are displayed and available for further action or reporting.

Actor Action (Admin)

System Responsibility

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|--|---|
| 1. Admin logs into the system. | 2. System verifies admin credentials and grants access. |
| 3. Admin navigates to the application statistics section. | 4. System retrieves and displays relevant statistics on scholarship applications. |
| 5. Admin views or exports the statistics for further analysis. | 6. System provides a downloadable report if required. |

Extensions:

- 3a. If there is no data available, the system shows a "No statistics available" message.
- 4a. If the statistics fail to load due to a system error, the admin is notified.