**Learning Management System(LMS)**

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**Group : 00421**

**Cégep de la Gaspésie et des Îles**

**18/12/2024**

**Project Documentation:**

**Description:**

**Learning Management System(LMS) is a web application where there are 3 roles in this project. Educator or Teacher where they can  create and manage courses, post assignments and grade them, see the discussions and review the flagged content in the course. Then Students can register to a course, submit assignments and view grades which are received by the notifications, theory can edit their personal profile and participate in the discussions. Finally the Admin role where they have all the access for both the users also they can create and suspend the users, they can see the flagged content and oversee the course, then they can edit the firebase database rules and security settings.**

**Project Outline:**

**Front End: React JS, Html, CSS**

**Back End: Firebase Real Time, Firebase Authentication, Storage.**

**Platform: Google chrome, Microsoft Edge, Safari, Firefox.**

**GitHub:**

**Objective:**

**Develop a cross-platform web application using React and Firebase that serves as a Learning Management System (LMS), enabling educators to create and manage courses, students to enroll in courses, and administrators to oversee platform operations. The application will include robust testing, encompassing both unit testing and frontend validation using Selenium.**

**Scope**

**The Learning Management System (LMS) is a comprehensive, cross-platform web application designed to facilitate online learning. It provides tailored tools and functionalities for educators, students, and administrators, enhancing the overall educational experience. Educators can easily create and manage courses, assignments, and grade submissions. Students can engage with course content, submit assignments, track their progress, and participate in discussions. Administrators have full oversight of the entire platform, including user management, content moderation, and system security. The LMS is designed with scalability and ease of use in mind, catering to the needs of both small and large educational institutions.**

**Key Aspects of the Project:**

**User Roles and Permissions:**

**·       Educators: They have full control over course creation, management, assignment grading, and content posting.**

**·        Students: They can register, enroll in courses, submit assignments, view grades, and participate in discussions. –**

**·       Administrators: They have full access to user management, including adding and suspending users, content moderation, and backend configurations, ensuring a secure and efficient environment.**

**Core Functionalities:**

**·    Course Creation and Enrollment: Educators can easily create and manage courses, while students can browse, enroll, and actively participate in courses.**

**·   Assignment Management: Educators have the ability to assign, grade, and provide feedback on assignments**

**·    Communication and Collaboration: Students and educators can engage by posting content and collaborating through a dynamic feed and comment system.**

**·       User and Content Moderation: Administrators will manage users and moderate flagged content to ensure compliance with community guidelines.**

**·       Scalable Architecture: The platform will support growth and be able to scale resources to meet increasing user demand and data storage needs.**

**Security and Privacy:**

**·       All user data, including personal and academic information, will be securely stored and transmitted. Firebase Authentication will be used for secure login and registration.**

**·       Roles and permissions will ensure that users only have access to their respective features, and administrators will have the necessary tools to manage system security settings.**

**Cross-Platform Access:**

**·       The LMS will be accessible via modern web browsers such as Google Chrome, Microsoft Edge, Safari, and Firefox. It will be designed to be responsive and compatible across a range of devices, including desktops, laptops, tablets, and smartphones.**

**Performance and Reliability:**

**·       The application will be optimized for fast response times and high availability, with minimal downtime for maintenance.**

**·       Firebase's real-time database and cloud functions will ensure a robust and reliable backend infrastructure.**

**User Experience and Interface:**

**·   The LMS will feature an intuitive and user-friendly interface created using React JS, HTML, CSS, and Bootstrap. This will guarantee effortless navigation and a delightful learning experience for all users.**

**Module of systems:**

**Admin**

* **Login**
* **Manage Students(Active / Suspend)**
* **Manage Educators(Active / Suspend)**
* **Manage Content**
* **Manage Posts(Flag)**
* **Logout**

**Educators**

* **Login and Forgot Password**
* **Profile**
* **Manage Courses**
* **Grade Assignments**
* **Posts**
* **Logout**

**Students**

* **Registration, Login and Forgot Password**
* **Profile**
* **View Courses and enroll**
* **Assignments and Assignments submission**
* **Grades**
* **Posts**
* **Logout**

**Functional and Non-functional Requirements:**

|  |  |  |
| --- | --- | --- |
| **Functional Requirements** | | |
| **S. No** | **Name** | **Description** |
| **LMSF-1** | **Registration** | **Students has to Register before login to the application** |
| **LMSF-2** | **Login** | **Admin, Educators and Students to login with the registered credentials** |
| **LMSF-3** | **Forgot password** | **Students and Educators must allow to reset their password in case of forgot and want change** |
| **LMSF-4** | **Student, Educator profile** | **student can able to view or update his/her profile** |
| **LMSF-5** | **Admin Manage Students** | **Admin can view students and have a option to suspend account** |
| **LMSF-6** | **Admin Manage Educators** | **Admin can Add/Edit/view/Delete Educators and have a option to suspend account** |
| **LMSF-7** | **Manage Content and Post** | **Admin can View/Delete abuse content and posts** |
| **LMSF-8** | **Educator Manage course** | **Educator can Add/Edit/view/Delete course details** |
| **LMSF-9** | **Add Grades to Assignments** | **Educator can View/Add Grades to students submitted assignments** |
| **LMSF-10** | **Post Feed** | **Educator can post feed** |
| **LMSF-11** | **Student Courses** | **Student can view and course details and enroll** |
| **LMSF-12** | **Student Assignments** | **Student can view and submit assignments** |
| **LMSF-13** | **Student Grades** | **Student can view grades for submitted assignments** |
| **LMSF-14** | **Comment feed** | **Student can View and post comments for Educator posts** |
| **LMSF-15** | **Logout** | **The website must allow the Admin, Educators and students to logout from the application** |

**Non-functional requirements:**

|  |  |  |
| --- | --- | --- |
| **Non-Functional Requirements** | | |
| **S. No** | **Name** | **Description** |
| **LMS NFR-1** | **Usability** | **The website should appear good and meet all the standards so that everyone may use it.** |
| **LMS NFR-2** | **Response Time** | **When completing the tasks, the program responds more quickly.** |
| **LMS NFR-3** | **Performance** | **Satisfactory performance requirements are provided on the webpage.** |
| **LMS NFR-4** | **User Experience** | **The user interface of the online application must be visually appealing and simple for users to utilize.** |
| **LMS NFR-5** | **Efficiency** | **Any user interface with the automated system must respond in no more than a few seconds.** |
| **LMS NFR-6** | **Availability** | **The system will notify a user when it is unavailable, unless it is not functioning.** |
| **LMS NFR-7** | **Scalability** | **The website's attendance restriction is set to accommodate the most users at once.** |
| **LMS NFR-8** | **Security** | **Only approved users are granted access permissions.** |
| **LMS NFR-9** | **Portability** | **Any device can access the website.** |
| **LMS NFR-10** | **Maintainability** | **It should run with no down time i.e., 24/7** |

**User Story Backlogs:**

**As a Admin**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Points** | **Priority** |
| **LMSF-01** | **As a Admin, I want to login to website with credentials** | **8** | **High** |
| **LMSF-02** | **As a Admin, I want to view Students** | **3** | **Low** |
| **LMSF-03** | **As a Admin, I want to Suspend Students accounts** | **8** | **High** |
| **LMSF-04** | **As a Admin, I want to add Educators** | **10** | **High** |
| **LMSF-05** | **As a Admin, I want to Edit Educators** | **5** | **Medium** |
| **LMSF-06** | **As a Admin, I want to delete Educators** | **3** | **Low** |
| **LMSF-07** | **As a Admin, I want to view Educators** | **5** | **Medium** |
| **LMSF-08** | **As a Admin, I want to view posts** | **5** | **Medium** |
| **LMSF-09** | **As a Admin, I can manage content** | **10** | **High** |
| **LMSF-10** | **As a Admin, I can view comments** | **8** | **High** |
| **LMSF-11** | **As a Admin, I can delete comments** | **5** | **Medium** |
| **LMSF-12** | **As a Admin, I can delete posts** | **13** | **High** |
| **LMSF-13** | **As a Admin, I want to logout** | **3** | **Low** |

**As a Educator**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Points** | **Priority** |
| **LMSF-01** | **As a Educator,I want to Login to website with the credentials** | **8** | **High** |
| **LMSF-02** | **As a Educator, I want to retrieve my credentials using email** | **5** | **High** |
| **LMSF-03** | **As a Educator, I want to view my profile information which includes name, email, age, qualification, email and password** | **5** | **Medium** |
| **LMSF-04** | **As a Educator, I want to create course** | **13** | **High** |
| **LMSF-05** | **As a Educator, I want to edit course** | **5** | **Medium** |
| **LMSF-06** | **As a Educator, I want to delete course** | **3** | **Low** |
| **LMSF-07** | **As a Educator, I want to view course and details** | **10** | **High** |
| **LMSF-08** | **As a Educator, I want to view assignments** | **8** | **High** |
| **LMSF-09** | **As a Educator, I can add grades to students** | **13** | **High** |
| **LMSF-10** | **As a Educator, I want to search and view students** | **5** | **Medium** |
| **LMSF-11** | **As a Educator, I want to post feeds** | **10** | **High** |
| **LMSF-12** | **As a Educator, I want to edit posts** | **5** | **Medium** |
| **LMSF-13** | **As a Educator, I want to delete posts** | **3** | **Low** |
| **LMSF-14** | **As a Educator, I can view Students grades** | **5** | **Medium** |
| **LMSF-15** | **As a Educator, I can view comments for post feeds** | **5** | **Medium** |
| **LMSF-16** | **As a Educator, I can flag comment for post feeds** | **10** | **High** |
| **LMSF-17** | **As a Educator, I want to logout from website** | **3** | **Low** |

**As a Student**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Points** | **Priority** |
| **LMSF-01** | **As a Student, I want to Register for website with my information like name, email, password and age** | **8** | **High** |
| **LMSF-02** | **As a Student, I want to login with credentials** | **8** | **High** |
| **LMSF-03** | **As a Student, I want to retrieve my password using my email address** | **5** | **High** |
| **LMSF-04** | **As a Student, I want to view and update my personal information like name, age, email, password and qualification** | **5** | **Medium** |
| **LMSF-05** | **As a Student, I want to view course** | **5** | **Medium** |
| **LMSF-06** | **As a Student, I want to search course** | **5** | **Medium** |
| **LMSF-07** | **As a Student, I want to view course details** | **5** | **Medium** |
| **LMSF-08** | **As a Student, I want to enroll course** | **13** | **High** |
| **LMSF-09** | **As a Student, I want to view assignments** | **5** | **High** |
| **LMSF-10** | **As a Student, I want to upload assignments** | **10** | **Medium** |
| **LMSF-11** | **As a Student, I want to view my grades** | **13** | **High** |
| **LMSF-12** | **As a Student, I want to view post feeds** | **8** | **High** |
| **LMSF-13** | **As a Student, I want to comment feeds** | **5** | **Medium** |
| **LMSF-14** | **As a Student, I want to delete comments for feeds** | **3** | **Low** |
| **LMSF-15** | **As a Student, I want to Logout from website** | **3** | **Low** |

**USER STORIES**

**As a Admin**

**1. As a Admin I want to login to website with the credentials**

**2. As a Admin I want to view Student**

**3. As a Admin I want to suspend student Accounts**

**4. As a Admin I want to add educators**

**5. As a Admin I want to Edit Educators**

**6. As a Admin I want to delete Educators**

**7. As a Admin I want to view Educators**

**8. As a Admin I want to view posts**

**9.As a Admin I can manage content**

**10. As a Admin I can view comments**

**11. As a Admin I can delete comments**

**12. As a Admin I can delete posts**

**13. As a Admin I want to logout from the Website**

**As a Educator**

**1. As a Educator I want to login to Website with the credentials**

**2. As an Educator i want to retrieve  my password using email**

**3. As an Educator i want to view my profile with my personal information like full name,**

**Email,phone, age, qualification and password**

**4.As a Educator I want to create new course**

**5. As a Educator I want to edit course**

**6. As a Educator I want to delete course**

**7.As a Educator I can view course and details**

**8. As a Educator i can view assignments**

**9.As a Educator I can add grades to students**

**10. As a Educator I want to view search students**

**11. As a Educator I want to posts feeds**

**12. As a Educator I want to edit post**

**13. As a Educator I want to delete posts**

**14. As a Educator I can view students grades**

**15. As a Educator I can view comment for post feeds**

**16.As a Educator I can flag comment for post feeds**

**17. As a Educator I want to logout from the website**

**As a Student**

**1. As a student I want to register to Website with my personal information like full name, email, phone, age, and password information**

**2. As a student I want to login to website with the credentials**

**3. As a student I want to retrieve  my password using email**

**4. As a student I want to view and update my profile with my personal information**

**Like full name, email, phone, age, qualification and password**

**5. As a student I want to view course**

**6. As a student I want to view course details**

**7. As a student i want to search course**

**8. As a student I want to enroll course**

**9. As a student I can submit assignments**

**10. As a student I can view my assignments**

**11. As a student I want to view my grades**

**12. As a student I want to view feed**

**13. As a student I want to comment feeds**

**14. As a students I can delete my comments to feeds**

**15. As a Students I want to logout from the website**

**Diagrams:**

**Use case diagram:**

**A diagram of a diagram

Description automatically generated**

**Activity Diagrams:**

**Admin Activity Diagram:A diagram of a learning management system

Description automatically generated**

**Sequence Diagrams:**

**Student Sequence diagram:** **Learning Management System(LMS)**

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**18/12/2024**

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**Learning Management System(LMS) is a web application where there are 3 roles in this project. Educator or Teacher where they can create and manage courses, post assignments and grade them, see the discussions and review the flagged content in the course. Then Students can register to a course, submit assignments and view grades which are received by the notifications, theory can edit their personal profile and participate in the discussions. Finally the Admin role where they have all the access for both the users also they can create and suspend the users, they can see the flagged content and oversee the course, then they can edit the firebase database rules and security settings.**

**Project Outline:**

**Front End: React JS, Html, CSS**

**Back End: Firebase Real Time, Firebase Authentication, Storage.**

**Platform: Google chrome, Microsoft Edge, Safari, Firefox.**

**GitHub:**

**Objective:**

**Develop a cross-platform web application using React and Firebase that serves as a Learning Management System (LMS), enabling educators to create and manage courses, students to enroll in courses, and administrators to oversee platform operations. The application will include robust testing, encompassing both unit testing and frontend validation using Selenium.**

**Scope**

**The Learning Management System (LMS) is a comprehensive, cross-platform web application designed to facilitate online learning. It provides tailored tools and functionalities for educators, students, and administrators, enhancing the overall educational experience. Educators can easily create and manage courses, assignments, and grade submissions. Students can engage with course content, submit assignments, track their progress, and participate in discussions. Administrators have full oversight of the entire platform, including user management, content moderation, and system security. The LMS is designed with scalability and ease of use in mind, catering to the needs of both small and large educational institutions.**

**Key Aspects of the Project:**

**User Roles and Permissions:**

**· Educators: They have full control over course creation, management, assignment grading, and content posting.**

**· Students: They can register, enroll in courses, submit assignments, view grades, and participate in discussions. –**

**· Administrators: They have full access to user management, including adding and suspending users, content moderation, and backend configurations, ensuring a secure and efficient environment.**

**Core Functionalities:**

**· Course Creation and Enrollment: Educators can easily create and manage courses, while students can browse, enroll, and actively participate in courses.**

**· Assignment Management: Educators have the ability to assign, grade, and provide feedback on assignments**

**· Communication and Collaboration: Students and educators can engage by posting content and collaborating through a dynamic feed and comment system.**

**· User and Content Moderation: Administrators will manage users and moderate flagged content to ensure compliance with community guidelines.**

**· Scalable Architecture: The platform will support growth and be able to scale resources to meet increasing user demand and data storage needs.**

**Security and Privacy:**

**· All user data, including personal and academic information, will be securely stored and transmitted. Firebase Authentication will be used for secure login and registration.**

**· Roles and permissions will ensure that users only have access to their respective features, and administrators will have the necessary tools to manage system security settings.**

**Cross-Platform Access:**

**· The LMS will be accessible via modern web browsers such as Google Chrome, Microsoft Edge, Safari, and Firefox. It will be designed to be responsive and compatible across a range of devices, including desktops, laptops, tablets, and smartphones.**

**Performance and Reliability:**

**· The application will be optimized for fast response times and high availability, with minimal downtime for maintenance.**

**· Firebase's real-time database and cloud functions will ensure a robust and reliable backend infrastructure.**

**User Experience and Interface:**

**· The LMS will feature an intuitive and user-friendly interface created using React JS, HTML, CSS, and Bootstrap. This will guarantee effortless navigation and a delightful learning experience for all users.**

**Module of systems:**

**Admin**

**Login**

**Manage Students(Active / Suspend)**

**Manage Educators(Active / Suspend)**

**Manage Content**

**Manage Posts(Flag)**

**Logout**

**Educators**

**Login and Forgot Password**

**Profile**

**Manage Courses**

**Grade Assignments**

**Posts**

**Logout**

**Students**

**Registration, Login and Forgot Password**

**Profile**

**View Courses and enroll**

**Assignments and Assignments submission**

**Grades**

**Posts**

**Logout**

**Functional and Non-functional Requirements:**

**Functional Requirements**

**S. No**

**Name**

**Description**

**LMSF-1**

**Registration**

**Students has to Register before login to the application**

**LMSF-2**

**Login**

**Admin, Educators and Students to login with the registered credentials**

**LMSF-3**

**Forgot password**

**Students and Educators must allow to reset their password in case of forgot and want change**

**LMSF-4**

**Student, Educator profile**

**student can able to view or update his/her profile**

**LMSF-5**

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**Admin can view students and have a option to suspend account**

**LMSF-6**

**Admin Manage Educators**

**Admin can Add/Edit/view/Delete Educators and have a option to suspend account**

**LMSF-7**

**Manage Content and Post**

**Admin can View/Delete abuse content and posts**

**LMSF-8**

**Educator Manage course**

**Educator can Add/Edit/view/Delete course details**

**LMSF-9**

**Add Grades to Assignments**

**Educator can View/Add Grades to students submitted assignments**

**LMSF-10**

**Post Feed**

**Educator can post feed**

**LMSF-11**

**Student Courses**

**Student can view and course details and enroll**

**LMSF-12**

**Student Assignments**

**Student can view and submit assignments**

**LMSF-13**

**Student Grades**

**Student can view grades for submitted assignments**

**LMSF-14**

**Comment feed**

**Student can View and post comments for Educator posts**

**LMSF-15**

**Logout**

**The website must allow the Admin, Educators and students to logout from the application**

**Non-functional requirements:**

**Non-Functional Requirements**

**S. No**

**Name**

**Description**

**LMS NFR-1**

**Usability**

**The website should appear good and meet all the standards so that everyone may use it.**

**LMS NFR-2**

**Response Time**

**When completing the tasks, the program responds more quickly.**

**LMS NFR-3**

**Performance**

**Satisfactory performance requirements are provided on the webpage.**

**LMS NFR-4**

**User Experience**

**The user interface of the online application must be visually appealing and simple for users to utilize.**

**LMS NFR-5**

**Efficiency**

**Any user interface with the automated system must respond in no more than a few seconds.**

**LMS NFR-6**

**Availability**

**The system will notify a user when it is unavailable, unless it is not functioning.**

**LMS NFR-7**

**Scalability**

**The website's attendance restriction is set to accommodate the most users at once.**

**LMS NFR-8**

**Security**

**Only approved users are granted access permissions.**

**LMS NFR-9**

**Portability**

**Any device can access the website.**

**LMS NFR-10**

**Maintainability**

**It should run with no down time i.e., 24/7**

**User Story Backlogs:**

**As a Admin**

**ID**

**Name**

**Points**

**Priority**

**LMSF-01**

**As a Admin, I want to login to website with credentials**

**8**

**High**

**LMSF-02**

**As a Admin, I want to view Students**

**3**

**Low**

**LMSF-03**

**As a Admin, I want to Suspend Students accounts**

**8**

**High**

**LMSF-04**

**As a Admin, I want to add Educators**

**10**

**High**

**LMSF-05**

**As a Admin, I want to Edit Educators**

**5**

**Medium**

**LMSF-06**

**As a Admin, I want to delete Educators**

**3**

**Low**

**LMSF-07**

**As a Admin, I want to view Educators**

**5**

**Medium**

**LMSF-08**

**As a Admin, I want to view posts**

**5**

**Medium**

**LMSF-09**

**As a Admin, I can manage content**

**10**

**High**

**LMSF-10**

**As a Admin, I can view comments**

**8**

**High**

**LMSF-11**

**As a Admin, I can delete comments**

**5**

**Medium**

**LMSF-12**

**As a Admin, I can delete posts**

**13**

**High**

**LMSF-13**

**As a Admin, I want to logout**

**3**

**Low**

**As a Educator**

**ID**

**Name**

**Points**

**Priority**

**LMSF-01**

**As a Educator,I want to Login to website with the credentials**

**8**

**High**

**LMSF-02**

**As a Educator, I want to retrieve my credentials using email**

**5**

**High**

**LMSF-03**

**As a Educator, I want to view my profile information which includes name, email, age, qualification, email and password**

**5**

**Medium**

**LMSF-04**

**As a Educator, I want to create course**

**13**

**High**

**LMSF-05**

**As a Educator, I want to edit course**

**5**

**Medium**

**LMSF-06**

**As a Educator, I want to delete course**

**3**

**Low**

**LMSF-07**

**As a Educator, I want to view course and details**

**10**

**High**

**LMSF-08**

**As a Educator, I want to view assignments**

**8**

**High**

**LMSF-09**

**As a Educator, I can add grades to students**

**13**

**High**

**LMSF-10**

**As a Educator, I want to search and view students**

**5**

**Medium**

**LMSF-11**

**As a Educator, I want to post feeds**

**10**

**High**

**LMSF-12**

**As a Educator, I want to edit posts**

**5**

**Medium**

**LMSF-13**

**As a Educator, I want to delete posts**

**3**

**Low**

**LMSF-14**

**As a Educator, I can view Students grades**

**5**

**Medium**

**LMSF-15**

**As a Educator, I can view comments for post feeds**

**5**

**Medium**

**LMSF-16**

**As a Educator, I can flag comment for post feeds**

**10**

**High**

**LMSF-17**

**As a Educator, I want to logout from website**

**3**

**Low**

**As a Student**

**ID**

**Name**

**Points**

**Priority**

**LMSF-01**

**As a Student, I want to Register for website with my information like name, email, password and age**

**8**

**High**

**LMSF-02**

**As a Student, I want to login with credentials**

**8**

**High**

**LMSF-03**

**As a Student, I want to retrieve my password using my email address**

**5**

**High**

**LMSF-04**

**As a Student, I want to view and update my personal information like name, age, email, password and qualification**

**5**

**Medium**

**LMSF-05**

**As a Student, I want to view course**

**5**

**Medium**

**LMSF-06**

**As a Student, I want to search course**

**5**

**Medium**

**LMSF-07**

**As a Student, I want to view course details**

**5**

**Medium**

**LMSF-08**

**As a Student, I want to enroll course**

**13**

**High**

**LMSF-09**

**As a Student, I want to view assignments**

**5**

**High**

**LMSF-10**

**As a Student, I want to upload assignments**

**10**

**Medium**

**LMSF-11**

**As a Student, I want to view my grades**

**13**

**High**

**LMSF-12**

**As a Student, I want to view post feeds**

**8**

**High**

**LMSF-13**

**As a Student, I want to comment feeds**

**5**

**Medium**

**LMSF-14**

**As a Student, I want to delete comments for feeds**

**3**

**Low**

**LMSF-15**

**As a Student, I want to Logout from website**

**3**

**Low**

**USER STORIES**

**As a Admin**

**1. As a Admin I want to login to website with the credentials**

**2. As a Admin I want to view Student**

**3. As a Admin I want to suspend student Accounts**

**4. As a Admin I want to add educators**

**5. As a Admin I want to Edit Educators**

**6. As a Admin I want to delete Educators**

**7. As a Admin I want to view Educators**

**8. As a Admin I want to view posts**

**9.As a Admin I can manage content**

**10. As a Admin I can view comments**

**11. As a Admin I can delete comments**

**12. As a Admin I can delete posts**

**13. As a Admin I want to logout from the Website**

**As a Educator**

**1. As a Educator I want to login to Website with the credentials**

**2. As an Educator i want to retrieve my password using email**

**3. As an Educator i want to view my profile with my personal information like full name,**

**Email,phone, age, qualification and password**

**4.As a Educator I want to create new course**

**5. As a Educator I want to edit course**

**6. As a Educator I want to delete course**

**7.As a Educator I can view course and details**

**8. As a Educator i can view assignments**

**9.As a Educator I can add grades to students**

**10. As a Educator I want to view search students**

**11. As a Educator I want to posts feeds**

**12. As a Educator I want to edit post**

**13. As a Educator I want to delete posts**

**14. As a Educator I can view students grades**

**15. As a Educator I can view comment for post feeds**

**16.As a Educator I can flag comment for post feeds**

**17. As a Educator I want to logout from the website**

**As a Student**

**1. As a student I want to register to Website with my personal information like full name, email, phone, age, and password information**

**2. As a student I want to login to website with the credentials**

**3. As a student I want to retrieve my password using email**

**4. As a student I want to view and update my profile with my personal information**

**Like full name, email, phone, age, qualification and password**

**5. As a student I want to view course**

**6. As a student I want to view course details**

**7. As a student i want to search course**

**8. As a student I want to enroll course**

**9. As a student I can submit assignments**

**10. As a student I can view my assignments**

**11. As a student I want to view my grades**

**12. As a student I want to view feed**

**13. As a student I want to comment feeds**

**14. As a students I can delete my comments to feeds**

**15. As a Students I want to logout from the website**

**Diagrams:**

**Use case diagram:**

**Activity Diagrams:**

**Admin Activity Diagram:**

**Sequence Diagrams:**

**Student Sequence diagram:**

**A diagram of a program

Description automatically generated with medium confidence**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

