1. Student Login

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| **Use Case ID:** | UC -01 | | | |
| **Use Case Name:** | Student Login | | | |
| **Created By:** | Zaeem Asghar | | **Last Updated By:** |  |
| **Date Created:** |  | | **Last Revision Date:** |  |
| **Actors:** | | Student | | |
| **Description:** | | The student tries to log in to this System | | |
| **Preconditions:** | | * Application Must have a stable Internet Connection * Students must be registered * Students have exams Scheduled | | |
| **Postconditions:** | | * The student will be authenticated and redirected to the dashboard. | | |
| **Normal Flow:** | | * The Student opens the application and fills in the credentials and presses login. * The client app will forward the credentials to the backend server. * The backend server will validate the user credentials and respond with the authentication token and user details. * Face Verification will be performed. * The client app can further use this token with every request to prove its identity. | | |
| **Exceptions:** | | * In case of wrong credentials, the server will respond with an error and the client application will show the wrong credentials error. * In case of wrong face verification, the Client Application will stop and passes the error and Notifies the Server. | | |

1. Teacher Login

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| **Use Case ID:** | UC -02 | | | |
| **Use Case Name:** | Teacher Login | | | |
| **Created By:** | Zaeem Asghar | | **Last Updated By:** |  |
| **Date Created:** |  | | **Last Revision Date:** |  |
| **Actors:** | | Teacher | | |
| **Description:** | | The Teacher tries to log in to this System | | |
| **Preconditions:** | | * Application Must have a stable Internet Connection * Teachers must be registered | | |
| **Postconditions:** | | * The student will be authenticated and redirected to the dashboard. | | |
| **Normal Flow:** | | * The Teacher opens the Web App and fills in the credentials and presses login. * The client app will forward the credentials to the backend server. * The backend server will validate the user credentials and respond with the authentication token and user details. * The client app can further use this token with every request to prove its identity. | | |
| **Exceptions:** | | * In case of wrong credentials, the server will respond with an error and the client application will show the wrong credentials error. | | |

1. Authentication User

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| **Use Case ID:** | UC -03 | | | |
| **Use Case Name:** | Authentication User | | | |
| **Created By:** | Zaeem Asghar | | **Last Updated By:** |  |
| **Date Created:** |  | | **Last Revision Date:** |  |
| **Actors:** | | Student, System | | |
| **Description:** | | The student verifies their Identity | | |
| **Preconditions:** | | * Application Must have a stable Internet Connection * Students must be registered * Students have exams Scheduled * The Front Camera should be available * Camera Permissions are Granted | | |
| **Postconditions:** | | * The student will be authenticated and redirected to the dashboard. | | |
| **Normal Flow:** | | * The Student opens the application and fills in the credentials and presses login. * The client app will forward the credentials to the backend server. * The backend server will validate the user credentials and respond with the authentication token and user details. * Face Verification will be performed. | | |
| **Exceptions:** | | * In case of wrong credentials, the server will respond with an error and the client application will show the wrong credentials error. * In case of wrong face verification, the Client Application will stop and passes the error and Notifies the Server. | | |
| **Frequency of Use:** | | * The Verification will be Preformed after every 5-10 Minutes to verify the user | | |
| **Special**  **Requirements:** | | * Client Permissions should be granted. | | |

4. View Dashboard

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| **Use Case ID:** | UC -04 | | | |
| **Use Case Name:** | Dashboard | | | |
| **Created By:** | Zaeem Asghar | | **Last Updated By:** |  |
| **Date Created:** |  | | **Last Revision Date:** |  |
| **Actors:** | | Student | | |
| **Description:** | | The student verifies their Identity | | |
| **Preconditions:** | | * Students must be logged in to the system | | |
| **Postconditions:** | | * Students can access the information required. | | |
| **Normal Flow:** | | * Students can view the result. * Students can give the exam. | | |

1. View Result

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| **Use Case ID:** | UC -05 | | | |
| **Use Case Name:** | View Result | | | |
| **Created By:** | Zaeem Asghar | | **Last Updated By:** |  |
| **Date Created:** |  | | **Last Revision Date:** |  |
| **Actors:** | | Student, System | | |
| **Description:** | | The student can view their results | | |
| **Preconditions:** | | * The Students must be logged in to the System. * The students have given the exam before. | | |
| **Postconditions:** | | * The student can view the results. | | |
| **Normal Flow:** | | * The Student will watch their previous results | | |
| **Exceptions:** | | * In case there is no past exam given by the student it will give the error. | | |
| **Includes** | | * Publish Result | | |

1. Conduct Exam

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| **Use Case ID:** | UC -06 | | | |
| **Use Case Name:** | Conduct Exam | | | |
| **Created By:** | Zaeem Asghar | | **Last Updated By:** |  |
| **Date Created:** |  | | **Last Revision Date:** |  |
| **Actors:** | | Student, System, Admin | | |
| **Description:** | | The Exam will be conducted. | | |
| **Preconditions:** | | * Stable internet connection * The Students must be logged in to the System. * The Exam must be Scheduled. * Authentication must be performed. | | |
| **Postconditions:** | | * The students will give their exams. | | |
| **Normal Flow:** | | * The Dashboard will redirect to the Exam page. * The Questions will be loaded. * The Timer will be started. * Authentication will be Started. | | |
| **Exceptions:** | | * In case the verification fails it will perform twice if fails again the Message will be sent and the video recording will be started. | | |
| **Includes** | | * Timer * Authentication * Decryption | | |