**Table 1: NLP System**

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| Use case Name | NLP System |
| Scope | Product |
| Level | Task |
| Description | This use case does the all the NLP tasks (text preprocessing, Text parsing, Text summarization, Mind map generation and word cloud generation) |
| Step performed | This use case starts when file uploaded   1. Text preprocessing  * The system does some operations on the text * The system executes a standard template from text  1. Text parsing  * The system takes the processed text and parse it * The system generates a parse tree from the text  1. Text summarization  * The system takes the processed text * The system generates a summary from the processed text  1. Min map generator  * The system takes the processed text * The system generates mind map from the processed text  1. Word cloud  * The system takes the processed text * The system counts each word how many it repeated * The system generates a word cloud picture based on the most repeated words |
| Alternative path | The uploaded file is too large. |
| Precondition | A file must be uploaded. |
| Post conditions | If the use case was successful, the system executes Mind map picture, word cloud picture and text summary. |

**Table 2: Login**

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| Use case Name | Login |
| Scope | Product |
| Level | Task |
| Description | This use case describes how a user log into the System to leave a comment ,like and upload articles, |
| Step performed | This use case starts when the actor wishes to log into the system.   1. The actor enters his/her name and password 2. The system validate the entered username and password and logs the actor into the system. |
| Alternative path | Invalid Username/Password  When user enters an invalid username or invalid password, system displays an error message.  The use choose either return to the beginning of the Basic Flow or cancel the login, at which point the use case ends. |
| Precondition | The system is in the login state and has the login screen displayed. |
| Post conditions | If the use case was successful, the actor is now logged into the system. if not, the system state is unchanged. |

**Table 3: Manage Articles**

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| Use case Name | Manage Articles |
| Scope | Product |
| Level | Task |
| Description | This use case allows to the user to dealing with articles in the system of articles. This includes adding, modifying, and deleting his Articles from the system. |
| Step performed | This use case starts with user want to add, change, delete, articles in his profile in the system.   * The system request the user specify the function he would like to perform ( either Add an Article, Update his articles, delete his article ) * Once the user provide the requested information, one of the sub flows in executed.   If the user select **"Add an article",** the **Add an Article** sub flow is executed.  If the user select **"Update an article",** the **Update an Article** sub flow is executed.  If the user select **"Delete an article",** the **Delete an Article** sub flow is executed.  Add/Upload Article   1. The system requests that the user enter the Article information. This includes :  * Article Text * Mind map addition to the auto-generated one .  1. Once the user provides the requested information, the system generates and assign unique id number to the article. The article is uploaded to the system. 2. The system provides the user with the new article id .   Update an article   1. The system requests the user choose the article. 2. The user choose the article , the system retrieves and displays the article information. 3. The user makes the desired changes to the article information. This includes any of the information specified in the Add /Upload an Article sub-flow. 4. Once the user updates the necessary information, the system updates the article information and generate another mind map and conclusion to it.   Delete An Article   1. The system requests the user to choose one of his articles . 2. The user choose one. The system retrieves and display its information. 3. The system prompts the user to confirm the deletion of the article. 4. The user verifies the deletion. 5. The system deletes the articles from the system. |
| Alternative path | Article Not found  If, in the Update a student or delete an article sub-flows, an article with a specified id number does not exists, the system displays an error message. The user can choose different id number or cancel the operation or this may mean that the article is deleted previously, at which point the use case ends.  Delete Cancelled  If, in the Delete an Article sub-flow, the user decides not to delete the student, the delete is cancelled and the Basic flow is re-started at the beginning. |
| Precondition | The user must be logged onto the system before this use case begins. |
| Post conditions | If the use case was successful, the student information is added, updated or deleted from the system. Otherwise, the system state is unchanged. |

**Table 4: Posts Interaction**

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| Use case name | Posts Interaction |
| Scope | Product |
| Level | Task |
| Description | This use case allow user to interact with the posts (Like posts, share posts, download image from the post, and save posts) |
| Step performed | This use case starts when the user wants to (Like posts, share posts, download image from the post, and save posts)   * The system request the user specify the function he would like to perform Like posts, share posts, download image from the post, and save posts) * Once the user provides the requested information, one of the sub flows in executed.   If the user wants to **"Like an article",** the **Like an article** sub flow is executed.  If the user wants to **"** **share posts ",** the **share posts** sub flow is executed.  If the user wants to **"** **download image from the post ",** the **download image from the post** sub flow is executed.  If the user wants to **"** **save posts ",** the **save posts** sub flow is executed.  save posts  Like posts   * The user clicks like button a post * The system stores the post id in the database * The system updates the number of post likes * The system shows the number of likes   Share posts   * The user clicks share button a post * The system saves the user id and post id in the data base * The system posts the shared post on the user profile   Download Image   * The user clicks download button * The system starts downloading the image in the specific file in the user device   Save posts   * The user clicks save post * The system adds the article id into saved posts menu of the user account |
| Alternative path |  |
| Precondition | The user must be logged in and the article owner must give the permeation to other users to interact with his posts |
| Post conditions | If the use case was successful, the Interaction is Updated In UI, Liked, Shared, Downloaded or Saved from the system. Otherwise, the system state is unchanged. |