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Formulating Software Requirements

EC – Attempted: [Wiki](https://github.com/UTDClassroom/cs3354007-s22-individual_hw-private-repo-GaryWu20/wiki/Formulating-Software-Requirements), [Board](https://github.com/UTDClassroom/cs3354007-s22-individual_hw-private-repo-GaryWu20/projects/1),

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| **List of Functional Requirements:** | | |
| **FR#** | **Description** | **Priority#** |
| FR1 | The system shall allow students to search for oversea exchange programs using a variety of different search criteria’s | 1 |
| FR2 | The system shall organize the search results hierarchically to facilitate the navigation to the needed information | 6 |
| FR3 | The system shall allow students to prepare and submit their application through the Web | 3 |
| FR4 | The system shall allow OIE staff to enter/upload information regarding the oversea exchange programs | 2 |
| FR5 | The system shall notify the OIE staff on completion of an application | 4 |
| FR6 | The system shall notify students on completion of the review of their application | 5 |

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| **List of Non-Functional Requirements:** | | |
| **NR#** | **Description** | **Priority#** |
| NR1 | The system shall encrypt all application data and files that are submitted through the Web | 2 |
| NR2 | The system shall be able to accurately and reliably filter out oversea exchange programs based off the user’s preference. | 1 |
| NR3 | The system save all applications after submission | 3 |

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| **List of Constraints:** | | |
| **C#** | **Description** | **Priority#** |
| C1 | OIE may require our system to operate on the server provided by the university | 3 |
| C2 | OIE may require our system to use data management designed by the university | 2 |
| C3 | OIE may choose a specific programming language based off their staff’s preference in order to maintain the system | 1 |

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| **Tractability Matric between FR and NR** | |
| NR1 | FR3, FR4 |
| NR2 | FR1, FR2 |
| NR3 | FR3 |