Functional Requirement

1.1  The user must be able to search for specific modules

   1.1.1 When the user is searching for the modules, system will show the relevant                     options relating the search

   1.1.2 The system will only display the modules searched by the User by cross-                    checking with its own database

   1.1.3 The system will display an error message if the modules are not in the system

2.1 The user must be able to filter course based on timing

   2.1.1 The system will show the all available timings for the courses selected

         2.1.2 The user can choose the relevant timing to filter

         2.1.3 The system will display the filtered courses

2.2 The user must be able to filter course based on prerequisites

         2.2.1 The system will show the pre-requisites for the courses selected

         2.1.2 The user can choose the prerequisites to filter

         2.1.3 The system will display the filtered courses

2.3 The user must be able to filter course based on academic year

         2.3.1 The system will show the academic year for the courses selected

         2.1.2 The user can choose the relevant academic year to filter

         2.1.3 The system will display the filtered courses

3.1 System must fetch timely updates of modules from STARS

3.2 System must provide most updated local version if unable to fetch from STARS

3.3 System must be able to login and display correct credentials and user details

3.4 System must allow user to enter his UserID and Password by displaying UserID and Password boxes at the login page

3.4.1 The system will check if the inputted credentials are correctly by cross                            referencing with its database

3.4.2 If the inputted credentials are correct, System will display the main page to the          user

3.4.3 If the inputted credentials are wrong, System will prompt the user to re-enter             his/her UserID and Password

Non-Functional Requirement

Usability

1. Help messages must be displayed in the local language according to the user’s locale

2. Text boxes will be presented in pages if the system requires user to input some information

3. Loading screen must be displayed to the user

Performance

1. The application needs to load the page within 1 second

2. Error message will be displayed within 1 seconds of the error being reported to the  system

3. System should load the recommended course schedule within 3 seconds to the       user

Reliability

1.Must be able to load local data

2.User are able to find their modules 98% of the time

Supportability

1. Able to link to NTU database through API

2. Multiple users are able to access the application without interference

**Data Dictionary**

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| Term | Definition |
| Program of Study | A university program that a student enrolls into. There are three levels of programs: undergraduate, master, and PhD. |
| NTU | Nanyang Technological University |
| UserID | Student’s username |
| Database | System’s own storage of information |
| Password | Student’s password |
| Semester | There are four semesters in an academic year. Semester 1 and Semester 4 have 13 teaching weeks. Semester 2 and Semester 3 have 5 teaching weeks., |
| Course | A course is a basic unit of teaching. A course must be either compulsory or elective. A course must include lectures and tutorials . Some courses may have labs. |
| STARS | NTU System |
| Prerequisite | Modules that is required as a prior condition to be qualified to take a specific module |
| Module | Module is the subject provided by NTU |
| Academic year | Current year of study |