DATA DICTIONARY

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| Terms | Description |
| Post - Secondary | The higher-education phase in Singapore. There are three different routes for post-secondary education: Junior College (JC), Polytechnic, Institute of Technical Education (ITE). |
| Post ‘A’ Level/Diploma | The highest-education phase in Singapore. There is only one route for post ‘A’ Level/diploma education: University |
| Institute/Institutes | The place where students receive their education. These Institutes possessed different names and reputations for the respective routes of education: JC, Polytechnic, ITE and University. Different Institutes provide different types of courses/subjects |
| Junior College (JC) | One of the post-secondary higher education routes. An institute where students receive education based on subjects and take the GCE ‘A’ Level. |
| Polytechnic/ITE | One of the post-secondary higher education routes. An institute where students receive education based on modules throughout 3 to 4 years and obtain a GPA. |
| University | The post ‘A’ level/diploma highest education routes. An institute where students receive education based on modules throughout 3 to 4 years and obtain a GPA. |
| Local University | University located in Singapore. |
| Previous Year Intake | The previous batch of students that enrolled into the respective Institute. |
| Courses/Programmes | A programme that focuses on a certain field of studies. Different courses have different cut-off points and requirements to enter. Courses only belongs to Polytechnic, ITE and University. Courses must either be part-time or full-time. Within the course, there are a variety of modules that student will have to take to graduate. |
| Institute General Information | This includes the list of courses offered, list of schools, cut-off points, school fees, co-curriculum activities (CCAs) and ranking. |
| GCE ‘O’/ ‘N’ Level Result | Post-secondary uses the General Certification of Education (GCE) of Ordinary (O) Level L1B4 & L1R5 and GCE Normal (N) Level EMB3 result for admission to Polytechnic/JC/ITE. |
| EMB3 | This result is obtained from calculating the points from the English Language, Mathematics and 3 other best subjects from the GCE ’N’ Level result. |
| L1B4 | This result is obtained from calculating the points from the first language subject and 4 other best subjects from the GCE ‘O’ Level result |
| L1R5 | This result is obtained from calculating the points from the first language subject and 5 other relevant subjects from the GCE ‘O’ Level result. |
| GPA | The General Point Average (GPA) result is used for admission to university from the Polytechnic/ITE route. |
| GCE ‘A’ Level Result | GCE ‘A’ Level Result is used for admission to university from the JC route. |
| Subject | The topics being studied within the Institute for JCs. |
| Institute Description | Mission statement and a brief description of the respective Institute. |
| School | Polytechnic, ITE and University have separate schools of different faculties. These schools have different courses related to the respected faculty. |
| Faculty | A group of departments that focuses on a major field of study. |
| School/ Tuition fee | The monetary value which students must pay after being enrolled into the Institute. Different Institute requires different amount of school fee. |
| Module | The specific topic studied in the field of study of the course chosen. Modules must be mandatory or elective. Each module has a score known as academic unit. |
| Co-Curriculum Activities (CCA) | Non-mandatory and academic activities for students to participate to develop new skills in the Institute. Different Institute comes with different variety of CCAs. |
| Cut-off points | The points required for students to enrol into the Institute and the course of their choice. These varies from courses within an Institute. It can be L1R5 for Junior Colleges, L1B4 for Polytechnics/ITE, GPA & GCE ‘A’ Level result for universities. The cut-off points are obtained from the previous intake. |
| Entry Requirement | For JCs, this is based off the GCE ‘O’ Level L1R5.  For Polytechnics/ITE this is based off the GCE ‘O’ Level L1B4 and 3 GCE ‘N’ Passes(A-D) only applicable for ITE courses. Some courses require specific physical requirement.  Junior College/Polytechnics/ITE are eligible for Joint Admission Exercise (JAE). Using the CCA records as a requirement to enter the Institute.  For University, this is based off the GCE A Level result from Junior College or GPA from Polytechnic. Some courses require specific physical requirement. |
| Ranking | The ranking refers to the University Global Ranking or the Junior College Ranking. |
| University Global Ranking | University are being rank within a global standard. This ranking varies from university and determines their popularity and reputation in the education domain. |
| Junior College Ranking | JCs are being rank within Singapore based on the overall GCE ‘A’ Level result the college students received |
| Research Focus | The area of interest that a course is focusing on. |
| Student-Life | Well-being of the students currently studying in the respective Institute. Providing expectations and information regarding the Institute. |
| Joint Amissions Exercise (JAE) | Allow O-Level certification holders to apply for admission to JC |
| Direct School Admission (DSA) | Allow O-Level certification holders to apply for admission to JC via the CCA result |

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| Entity | Attributes | Type | Description |
| Institute | description | String | Description of the Institute |
| name | String | Name of the Institute |
| fees | float | School fee |
| Junior College | pointsArts | int | Arts Point required to be enrolled into the Institute |
| pointsScience | int | Science Point required to be enrolled into the Institute |
| subjects | List<String> | List of subjects offered by the Junior College |
| ccas | List<CCA> | List of CCAs offered in the Junior College |
| dsa | List<String> | List of DSA requirement for the Junior College |
| electives | List<String> | List of Electives that the Junior College offers |
| Polytechnic | schools | List<School> | List of schools available in the Polytechnic |
| ccas | List<CCA> | List of CCAs offered in the Polytechnic |
| ITE | schools | List<School> | List of schools available in the ITE |
| ccas | List<CCA> | List of CCAs offered in the ITE |
| University | schools | List<School> | List of schools available in the University |
| ccas | List<CCA> | List of schools available in the University |
| ranking | int | Ranking of the University in global standard |
| School | name | String | Name of the school in the Institute |
| courses | List<Course> | List of courses offered in the school |
| description | String | Description of the School in the Institute |
| Course | name | String | Name of the course |
| fullTime | String | Course is available only for full-time or both full-time and part-time |
| description | String | Description of the course |
| UniversityCourse | cutOffPointsAL | String | Cut-off points for the course using GCE ‘A’ Level result |
| cutOffPointsGPA | float | Cut-off points for the course using GPA result |
| type | String | Course Type that can either be “undergrad” or “postgrad” |
| PolytechnicITECourse | cutOffPointsO | int | Cut-off points for the course using GCE ‘O’ Level result |
| CCA | name | String | Name of the CCA |
| description | String | Description of the CCA |
| csvParse (Database) | df | DecimalFormat | Limit the float value to 2 decimal place |
| universities | List<Institute> | List of universities gathered from the data |
| polytechnics | List<Institute> | List of polytechnics gathered from the data |
| ites | List<Institute> | List of ites gathered from the data |
| juniorcolleges | List<Institute> | List of juniorcolleges gathered from the data |
| general | boolean | To determine if the data read is in general for all Institute or specific Institute |
| JCHome | jcList | List<Institute> | List of Junior Colleges |
| btn\_JAE | Button | Button used for the display of the JAE Option and used for input |
| btn\_DSA | Button | Button used for the display of the DSA Option and used for input |
| btn\_CCA | Button | Button used for the display of the CCA Option and used for input |
| jdPosition | int | Index of the JuniorCollege in the csvParse juniorCollege List |
| JCListAdapter | c | Context | Current state of the object |
| itemList | List<String> | List of String that is used for displaying information such as DSA |
| JCDirectAdmission | recyclerview | RecycleView | List for displaying the DSA information in the JuniorColleges |
| adapter | JCListAdapter | Array adapter for displaying the DSA information the recyclerview |
| jcPosition | int | ndex of the JuniorCollege in the csvParse juniorCollege List |
| JCJointAdmission | jcPosition | int | Index of the JuniorCollege in the csvParse juniorCollege List |
| JCSelectorUI | recyclerview | RecycleView | List for displaying the Junior Colleges names available from the database |
| adapter | JCAdapter | Array adapter for displaying the Junior Colleges name in the recyclerview |
| JCAdapter | c | Context | Current state of the object |
| itemList | List<String> | List of String that is used for displaying information such as list of JuniorColleges names |
| SchoolUI | b\_school | Button | Button used for the dynamically display of the School name and used for input |
| instituteType | char | The type of Institute based of their first letter. Example U = “University” |
| instituteID | int | Identification number for the Institute in the database |
| CourseUI | b\_course | Button | Button used for the dynamically display of the Course name and used for input |
| instituteType | char | The type of Institute based of their first letter. Example U = “University” |
| instituteID | int | Identification number for the Institute in the database |
| schoolID | int | Identification number for the School with the respective Institute in the database |
| CourseInfo | instituteType | char | The type of Institute based of their first letter. Example U = “University” |
| courseTitle | TextView | Text for displaying the course name |
| desc | TextView | Text for displaying the course description |
| fullTime | TextView | Text for displaying the course fulltime parameter in Course class |
| instituteText | TextView | Text for displaying the institute name |
| cutoff | TextView | Text for displaying the cut-off point for the course |
| UniversityUI | b\_uni | Button | Button used for the dynamically display the Institute name and used for input |
| PolytechnicUI | b\_poly | Button | Button used for the dynamically display of the Institute name and used for input |
| ITEUI | b\_itecc | Button | Button used for the display of the respective Institute name and used for input |
| b\_itewest | Button | Button used for the display of the respective Institute name and used for input |
| b\_iteeast | Button | Button used for the display of the respective Institute name and used for input |
| InstitutePage | b\_FnS | Button | Button used for the display of the “Faculties and School” and used for input |
| b\_cca | Button | Button used for the display of the “CCA” and used for input |
| b\_intake | Button | Button used for the display of the “Intake Requirement” and used for input |
| Search | sview | SearchView | Scroll view used to display the courses |
| klayout | LinearLayout | Layout used for the scroll view |
| title | TextView | Text for dynamically displaying the Institute Name based of the results |
| b\_result | Button | Button used for the dynamically display of the Course name and used for input |
| FilterSearch | GPA\_MAX | float | Final float value for storing the max GPA |
| search | AutoCompleteTextView | Autocomplete search bar for searching institutes |
| searchCourse | AutoCompleteTextView | Autocomplete search bar for searching courses |
| ddpLayout | TextInputLayout | Layout used for drop down menu |
| ddpFill | AutoCompleteTextView | Autocomplete search for drop down menu |
| arrayAdapter\_schools | ArrayAdapter<String> | Array adapter for displaying the schools available into the drop down menu |
| arrayAdapter\_courses | CourseAdapter | Array adapter for displaying the schools available into List View |
| gpaSlider | SeekBar | A Slider for user to input their GPA |
| gpaValue | TextView | Text for displaying the the gpa input |
| courseList | ListView | Display the list of courses |
| switchButton | Switch | A button to toggle between name and GPA |
| gpaSwitch | TextView | Text for displaying the “GPA” |
| nameSwitch | TextView | Text for displaying the “Name” |
| clicked | boolean | To check if the background is clicked |
| instituteFound | Institute | The Institute found from the filter |
| schoolFound | School | The School found from the filter |
| courseFound | Course | The Course found from the filter |
| gpa | float | The GPA input from the user |
| CourseAdapter | context | Context | Current state of the application |
| resource | int | The resource ID to use for the adapter |
| IntakeReqUI | intakereq | RecyclerView | List for displaying the intake requirements |
| adapter | IntakeReqAdapter | Array adapter for displaying the intake requirement in the RecyclerView |
| title1 | TextView | Text to dynamically display the courses name |
| title2 | TextView | Text to dynamically display the A Level intake requirement |
| title3 | TextView | Text to dynamically display the GPA intake requirement |
| instituteType | char | The type of Institute based of their first letter. Example U = “University” |
| instituteID | int | Identification number for the Institute in the database |
| schoolList | List<School> | The List of school from the selected Institute |
| alevel | List<String> | The List of A level intake requirement from all the courses in the Institute |
| gpa | List<String> | The List of GPA intake requirement from all the courses in the Institute |
| name | List<String> | The List of all the courses in the Institute |
| IntakeReqAdapter | context | Context | Current state of the object |
| alevel | List<String> | The List of A level intake requirement from all the courses in the Institute for the adapter to work |
| gpa | List<String> | The List of GPA intake requirement from all the courses in the Institute for the adapter to work |
| name | List<String> | The List of all the courses in the Institute for the adapter to work |
| CCAUI | recyclerview | RecyclerView | List for displaying the ccas in the Institute |
| adapter | CCAAdapter | Array adapter for displaying CCA s in the RecyclerView |
| instituteType | char | The type of Institute based of their first letter. Example U = “University” |
| instituteID | int | Identification number for the Institute in the database |
| ccaList | List<CCA> | List of CCAs offered in the Institute |
| CCAAdapter | c | Context | Current state of the object |
| ccaList | List<CCA> | List of CCAs offered in the Institute |
| CCADescriptionUI | description | String | Description of the CCA |
| ccaname | String | Name of the CCA |
| tvname | TextView | Text for displaying the CCA name |
| tvdescription | TextView | Text for displaying the CCA Description |