DATA DICTIONARY

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'/ 'N' Level L1R5. For Polytechnics/ITE Courses, this is based off the GCE 'O' Level L1B4. 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/ITE. 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

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
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