

Background:

OneST is a web portal that provide multiple services to the public.

Functional Specs:

Develop two services for the web portal.

Service 1: Validation of Unique entity number (UEN) of company

User will input an UEN. Verify the string comply with the correct format.

Who will issue UEN to me?

Businesses and local companies currently registered with ACRA will retain their ACRA Registration Number as their UEN. Other than business and local registered companies, all other registered entities will be issued with a new UEN.

The table below describes the three UEN formats.

	Issued To	UEN Format	Description
A	Businesses registered with ACRA ¹	nnnnnnnnX (9 digits)	'n' = a number 'P' = a alphabetical letter 'Q' = an alpha-numeric digit 'PQ' = Entity-type ² 'Tyy' / 'Syy' / 'yyy' = year of issuance ³ 'X' = a check alphabet For example, the UEN for a limited liability partnership (LLP) formed on 1 January 2009 could be 'T09LL0001B'.
B	Local companies registered with ACRA ¹	yyyynnnnnX (10 digits)	
C	All other entities which will be issued new UEN	TyyPQnnnnX (10 digits)	

¹ No change from existing ACRA Registration Number

² E.g. 'LL' = 'Limited Liability Partnership'

³ 'T' represents '20', 'S' represents '19' and 'R' represents '18'. E.g. T08 means year 2008, S99 means year 1999 and R00 means year 1800

The following agencies will issue UENs to the entity-types listed below.

Issuance Agency	Entity-Type	Entity-Type Indicator (PQ) *
Accounting and Corporate Regulatory Authority (ACRA)	Limited Partnership Limited Liability Partnerships Foreign Companies Public Accounting Firms	LP LL FC PF
Enterprise Singapore (ESG)	Representative Offices of: - Foreign Companies, - Foreign Government Agencies - Foreign Trade Associations/Chambers/Non-Profit Organisations	RF
Islamic Religious Council of Singapore Majlis Ugama Islam Singapura (Muis)	Mosques Madrasahs	MQ MM
Ministry of Communications and Information (MCI)	News Bureaus	NB
Ministry of Culture, Community and Youth - Charities Unit	Charities and Institutions of a Public Character	CC
Ministry of Culture, Community and Youth - Registry of Co-operative Societies	Cooperative Societies	CS
Ministry of Culture, Community and Youth - Registry of Mutual Benefit Organisation	Mutual Benefit Organisations	MB
Ministry of Defence (Mindef)	Foreign Military Units	FM
Ministry of Education (MOE)	Government and Government-Aided Schools	GS
Ministry of Foreign Affairs (MFA)	High Commissions, Embassies Consulate International Organisations (registered with MFA)	DP CP NR
Ministry of Health (MOH)	Healthcare Institutions and Clinics - Only Medical Clinic - Only Dental Clinic - Both Medical and Dental Clinic - Hospitals - Voluntary Welfare Home - Commercial Home - Maternity Home - Clinical Laboratory - Xray Laboratory - Both Clinical and Xray Laboratory Healthcare Service Providers NOTE: MOH will issue UENs to providers of healthcare services which are registered under the Healthcare Services Act, progressively from January 2022. UENs of existing healthcare institutions and clinics will be unchanged.	CM CD MD HS VH CH MH CL XL CX HC
Ministry of Law (MLAW)	Foreign Law Practice Representative Offices	RP
Ministry of Manpower (MOM)	Trade Unions	TU
Ministry of National Development (MND)	Town Councils	TC
Monetary Authority of Singapore (MAS)	Financial Representative Offices - Bank Representative Offices - Insurance Representative Offices	FB FN
People's Association (PA)	PA Services Grassroot Units	PA PB
Registry of Societies (ROS)	Societies	SS
Singapore Land Authority (SLA)	Management Corporations Subsidiary Management Corporations	MC SM
Smart Nation and Digital Government Office (SNDGO)	Government Agencies and bodies performing public duties - Organs of State, Ministries and Departments - Statutory Boards and bodies performing public duties	GA GB

* The UEN format has an entity-type indicator(PQ) built into the identification number. For example, "LL" = "LimitedLiability Partnership".

Refer to (<https://www.uen.gov.sg/ueninternet/faces/pages/admin/aboutUEN.jspx>)
(<https://www.mof.gov.sg/docs/default-source/default-document-library/news-and-publications/press-releases/annexe060808.pdf>) for the validation criteria.

No need to validate check alphabet.

Service 2: Weather Forecast of Singapore

Tell the weather forecast of Singapore for the next 2 hour. User is able to choose/enter a valid location in Singapore to know its weather forecast.

You may use the API found in

https://data.gov.sg/datasets/d_3f9e064e25005b0e42969944ccaf2e7a/view
<https://api-open.data.gov.sg/v2/real-time/api/two-hr-forecast>

Technical Specs:

- You may use any programming language (except python)
- You may design your UX/UI. Command line input is acceptable. Having a GUI is bonus.
- Both services may not need to be of the same project. Please complete at least one of the services.
- You may include unit testing (bonus)
- Please test your code as if they are production ready
- You may host your codes in GitHub/provide the download links
- Provide a readme file with instruction on running the services locally.