JWT Web Service

This assignment requires that you create a JWT accessible web service. You may reutilise the functions that you created in CA2 (soap) for this assignment if you wish. There will be at least two types of membership –

1) *Service 1 – **Free** - No parameters, Free Service*
2) *Service 2 – **Premium** - One (1) parameter, Premium Service*
3) *Service 3 – **Premium** - Two (2) parameters, Premium Service*

The service is provided with the following conditions:

1) *The Free service can only be used **10 times** a day by a specific user*
2) *The premium services are purchased (simulate this no need to implement actual payment) on a **monthly** basis.*

Your service provider will need to implement a scheme to validate the above conditions.

*You will need two projects – JWTClient and JWTServer **PLUS** two databases JWTServer and JWTClient (Please keep to these names as it makes correcting much easier).*

Contribution: 30%

Due Date: 4ᵗʰ Dec 2020 23:55PM

Requirements:

1) JWTClient: User can register / login facility with data saved on JWTClient database, this should include the user API Key, when known, which will be used for a request from this user.

2) Request to register on JWTServer with at least username, password and membership type – Free or Premium.

3) If premium there is a need to provide purchase end date(simulation)It is up to you to determine how to implement this. Remember there is a need to be able to update the payment on a monthly basis.

4) Request an api_key

5) Request Free Service and display the results if < 10 requests that day otherwise provide restrictive service notice.

6) Request Premium Service 1 and display the results provided the user is paid up to date otherwise provide restrictive service notice.

7) Request Premium Service 2 and display the results provided the user is paid up to date otherwise provide restrictive service notice.

Marking Scheme

Marking Scheme	Marks
Two projects w/DB	2
Register on client	2
Register on Provider	2
Get API_KEY feature	3
Free service 1	2
Free Service 1 limit	4
Premium Service 1	2
Premium Service 1 limit	3
Premium Service 2	2
Premium Service 2 limit	3
Wow-Factor	5
	30