

SpreadsheetWEB's Role in Simplifying the Development of a Web-Based Application for the Turkish Ministry of Foreign Affairs

The Business Challenge

The Turkish Ministry of Foreign Affairs needed a web-based application to manage employee payrolls. In Turkey, taxes are deducted directly from the salaries of the workers rather than at the end of the year. Travel and working abroad is common among employees of the ministry of foreign affairs. Many people prefer to know their salaries prior to traveling to other countries, particularly where the laws regarding salary and taxes differ substantially. This makes calculating salaries for government officials particularly complicated; it requires dozens of dynamic parameters such as years of service, number of children, marital status and income rate. The final application will be hosted on the organization's intranet where over 5,000 employees will be able to access it. In addition to this complexity, laws and tax rates change frequently. This means that the salary application requires constant upkeep and maintenance. This is why it's necessary to find a flexible solution where tax calculation rules can be easily updated.

They had already attempted to solve this problem with a scripted program but the code became very complicated and was difficult to maintain. Changing the code in accordance with the end-user's decisions and the frequent alteration of laws and taxes made this a tedious and exhaustive chore.

Their accountants needed a way to build those rules into a spreadsheet where the engine could be updated easily. However integrating that spreadsheet engine with the web application was the challenge

The Solution

SpreadsheetWEB allowed the Turkish Ministry of Foreign Affairs easily create or convert the necessary applications directly from Excel into web-based applications. They employed SpreadsheetWEB's core spreadsheet engine to execute complex rules built into their spreadsheet-based rules engine and have it communicate with the web application.

It gave them the reliability and speed necessary when hosting an application that is accessed by thousands of users. It provided the flexibility to solve numerous business scenarios (regardless of how specific) while returning accurate and quality results.

The Results

Sicil	İsim	Soyad	Emekli Sandığı Keseneği Hak	Emekli Sandığı Keseneği Emekli	Emekli Sandığı Keseneği Farkı	Emekli Sandığı Kurum Kesintisi	%20-11 Emekli Sandığı	%16-9 Emekli Sandığı	%12-7 Genel Sağlık Sigortası	%0-5 Genel Sağlık Sigortası
2			1016,51	1016,51	0	468,92		375,14	281,35	0
3			225,89	225,89	0	239,94		391,92	143,96	0
4			395,31	734,15	338,84	287,62		382,03	223,22	0
5			225,89	225,89	0	234,66		179,73	134,8	0
6			395,31	395,31	0	284,05		227,24	170,43	0
7			734,15	734,15	0	371,79		297,43	223,07	0
8			225,89	225,89	0	250,88		200,7	150,53	0
9			282,37	282,37	0	73,7		60,3	50,25	33,5
10			395,31	395,31	0	304,26		243,41	182,56	0
11			225,89	225,89	0	235,66		188,53	141,4	0
12			1016,51	1016,51	0	468,92		375,14	281,35	0
13			1016,51	1016,51	0	468,92		375,14	281,35	0
14			1016,51	1016,51	0	468,92		375,14	281,35	0
15			1016,51	1016,51	0	468,92		375,14	281,35	0
16			1016,51	1016,51	0	468,92		375,14	281,35	0
17			1016,51	1016,51	0	468,92		375,14	281,35	0

After integration with SpreadsheetWEB, they write less code and spend less time on the development and deployment. Consequently, they spend less time maintaining the application because all necessary changes were done swiftly in Excel and quickly refreshed in the web application. They are now planning to convert all of their calculation pages and possibly other travel related expense reports using SpreadsheetWEB.

Dışişleri.Net

Hızlı Ara ana sayfa yorumlar iletişim

İnsan Kaynakları

Listeler İşlemler Raporlar Tanımlamalar İstatistikler Genel Arama Yardım

Ana Sayfa > Bakanlık Görevlileri Listesi Bakanlık Görevlisi Detay

Yeni Ara Geri

Temel Bilgiler	Eğitim Bilgileri	Yabancı Dilleri	Aile Bilgileri	İletişim Bilgileri	Hizmet Cetveli	Memuriyet	Dosyası
Özgeçmiş							
İzinler	Maaş Yılı	Maaş Ayı	Bordro Türü	Gelir	Gider	NET	Durum
Basılı Eserleri	2011	5	Maaş Bordrosu	4.982,93 TL	2.081,87 TL	2.901,06 TL	Kesinleşti
Notlar	2011	4	Maaş Bordrosu	4.982,93 TL	2.494,68 TL	2.488,25 TL	Kesinleşti
Tedaviler	2011	3	Maaş Bordrosu	4.982,93 TL	1.974,72 TL	3.008,21 TL	Kesinleşti
Maaş	2011	2	Maaş Bordrosu	5.100,99 TL	1.949,07 TL	3.151,92 TL	Kesinleşti
Yetki Grupları	2011	1	Maaş Bordrosu	5.100,99 TL	1.949,07 TL	3.151,92 TL	Kesinleşti
Formlar							
Yolluklar							
Sendika&Vakıf							

Project manager Ender Malkoc stated, “This was a big undertaking that could have resulted in an even bigger headache. We were looking at a future of constant maintenance issues along with coding and recoding to facilitate our end users with the most accurate results based on ever-changing regulations. SpreadsheetWEB took the load off. It not only gave us the ability to develop our application much faster than initially expected with substantially less coding necessary but it saved us time in the long run by expediting the overall maintenance issues. We could take care of the project within our native Excel. So if you’re finding it difficult to develop a web-based application that requires a strong calculations engine and a lot of coding, SpreadsheetWEB is certainly the solution. Why buy expensive software or waste time constantly maintaining an application that took huge amounts of time to code in the first place? SpreadsheetWEB allows you to do it all in Excel, on your own terms, so that you can create the application exactly to your specifications, needs and your customers’ desire”

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