

ANADOLU UNIVERSITY
FACULTY OF ENGINEERING

DUYARLI OL

HAKAN YILDIZ
OKAN ÖZTABAN

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DUYARLI OL

by

HAKAN YILDIZ - 30928274948

OKAN ÖZTABAN - 29122110244

Submitted in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Engineering is approved by the following scientific committee members.

Date of Approval : May 12,2017

Member (Advisor) : Assoc. Prof. Dr. Özgür YILMAZEL

Member : Lect. Emre KAÇMAZ

Member : Res. Asst. Emin Talip DEMİRKIRAN

Member : Res. Asst. Ahmet AYDIN

ABSTRACT

In recent years, the use of computers, smart phones and many electronic devices have increased because of rapid growth of technology. However, with the widespread use of the internet, the numbers of e-commerce sites are increasing day by day. Users can easily buy any product they want on the internet, and also sell products at more affordable prices to increase shopping on e-commerce sites. In this era of consumption, the number of costumers is increasing while individual borrowing is increasing at a great pace. The increase in the incentives of state and banks to encourage buying and spending rather than creating awareness and sensitivity to individuals. The main purpose of the project is a web-awareness project that allows individuals who want to make online purchases to take some basic information and complete a short test before completing their purchases, allowing them to think about how much they need for their products and what they need to buy.

Keywords: Online Shopping, Credit cards, Sensitivity, Web

ÖZET

Son yıllarda teknolojinin büyük bir hızla gelişmesinden dolayı, bireylerin bilgisayar, akıllı telefon ve birçok elektronik alet kullanımı artmıştır. Bununla beraber internetin yaygınlaşmasıyla e-ticaret sitelerinin sayılarına her geçen gün kat ve kat artmaktadır. Kullanıcıların istedikleri herhangi bir ürünü internet üzerinden kolay bir şekilde alabilmeleri ve ayrıca firmaların ürünlerini daha uygun fiyatlara satmaları e-ticaret sitelerinden alışverişi arttırmaktadır. Tüketim çağı dediğimiz bu çağda, kullanıcıların alışveriş sayıları artar iken bireysel borçlanmaları da büyük bir hızda artış göstermektedir. Devlet ve bankalar, bireyler üzerinde farkındalık ve duyarlılık oluşturmak yerine satın almaya, harcama yapmaya teşvik etmeleri bu artışa da sebep olmaktadır. Projemizin asıl amacı, online alışveriş yapmak isteyen bireylerin alışverişlerini tamamlamadan önce bazı temel bilgilerinin alınıp, kısa bir teste tabi tutularak, ellerindeki bütçe ile alacak olduğu ürüne ne kadar ihtiyaçları olup olmadıklarını düşünmelerini sağlayan ve tabiki de son kararı bireylerin kendisine bırakan bir web duyarlılık projesi oluşturmaktır.

Anahtar Kelimeler: Online Alışveriş, Kredi Kartı, Duyarlılık, Web

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ABBREVIATIONS

App	Application
DO	Duyarlı Ol
JS	JavaScript
SQL	Structured Query Language

1. INTRODUCTION

1.1 Project Title

DUYARLI OL

1.2 Group Members

Hakan YILDIZ

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1.3 Project Motivation

The user will be redirected to our website before the user completes the exchange. Our system will want some information of its own from the user. The user will be thought for the second time about the product he/she will really need or not need.

1.4 Project Definition

Online shopping has increased with the increase in the use of credit cards in recent years. This has led to an increase in the individual debts of individuals. Our system is a susceptibility project intended to make people think twice about shopping.

1.5. Scope of Project

Anyone who makes an online purchase can go to our test and evaluate the price for that shopping.

1.6. Gantt Chart

	Ad	Süre	Başlat	Bitirme	Önceki	Kaynak Adları
1	Begin Project	0 günler?	06.02.2017 08:00	06.02.2017 08:00		
2	Determine the group me	0 günler?	06.02.2017 08:00	06.02.2017 08:00		
3	What is the project	3 günler?	06.02.2017 08:00	08.02.2017 17:00		
4	Making requirement ana	1 gün?	09.02.2017 08:00	09.02.2017 17:00	3	
5	Determine the requirem	1 gün?	09.02.2017 08:00	09.02.2017 17:00	3	
6	Design Web Site Phase	0 günler?	09.02.2017 08:00	09.02.2017 08:00		
7	draw how to seem web	2 günler	09.02.2017 08:00	10.02.2017 17:00		
8	implement the codes for	20 günler	13.02.2017 08:00	10.03.2017 17:00	7	
9	execute the codes and t	2 günler	13.03.2017 08:00	14.03.2017 17:00	8	
10	evaluate all test and risk	2 günler	15.03.2017 08:00	16.03.2017 17:00	9	
11	Design Database Phase	0 günler	16.03.2017 08:00	16.03.2017 08:00		
12	making meet which data	2 günler	16.03.2017 08:00	17.03.2017 17:00		
13	drow relationships beet	1 gün?	20.03.2017 08:00	20.03.2017 17:00	12	
14	connect to the azure pla	1 gün?	20.03.2017 08:00	20.03.2017 17:00	12	
15	coding sql commands	2 günler	21.03.2017 08:00	22.03.2017 17:00	14	
16	write connection codes v	10 günler	23.03.2017 08:00	05.04.2017 17:00	15	
17	evaluate all situations an	5 günler	06.04.2017 08:00	12.04.2017 17:00	16	
18	chrome extension phase	0 günler	12.04.2017 07:00	12.04.2017 08:00		
19	coding chrome extension	10 günler	12.04.2017 07:00	25.04.2017 17:00		
20	evaluate all codes	10 günler	26.04.2017 08:00	09.05.2017 17:00	19	
21	testing for execution	4 günler	10.05.2017 08:00	15.05.2017 17:00	20	
22	report	1 gün?	16.05.2017 08:00	16.05.2017 17:00	21	

Figure 1.1. Table Visualization of Project Process

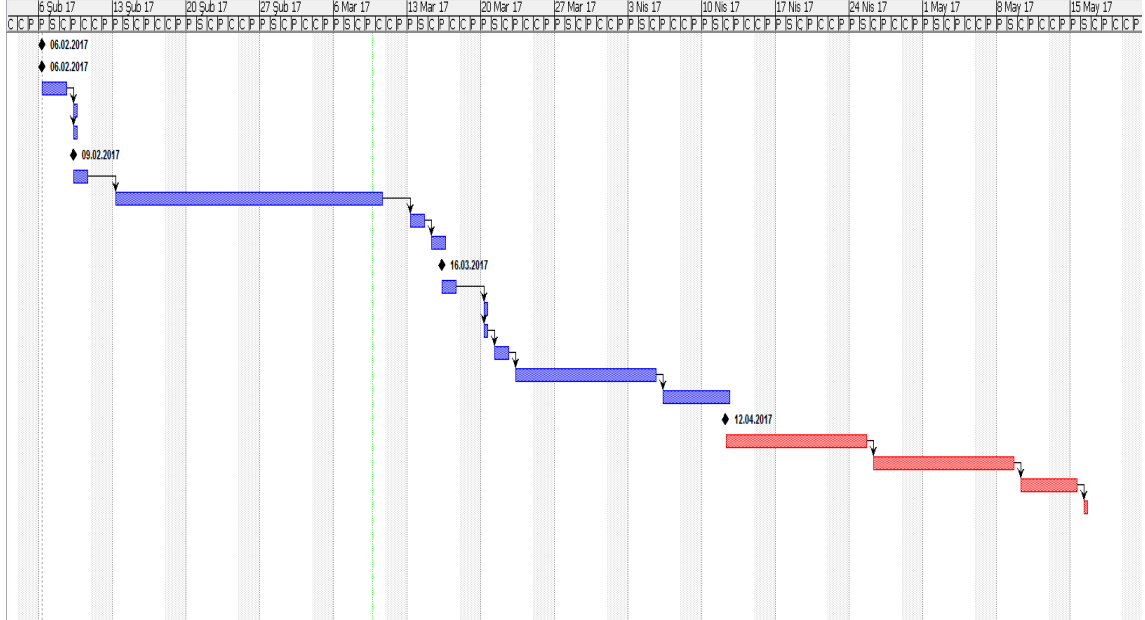


Figure 1.2. Chart Visualization of Project Process

2. PLATFORM AND TECHNOLOGIES TO BE USED

2.1. Polymer JS[1]

Polymer is an open-source JavaScript library for building web applications using web components. The library is being developed by Google developers and contributors on Github. Modern design principles are implemented as a separate project using Google's Material Design principles.

Polymer provides a number of features over vanilla web components:

- Simplified way of creating custom elements
- Both One-way and Two-way data binding
- Computed properties
- Conditional and repeat templates
- Gesture events
- Library of Elements

2.2. Chrome Extension[2]

Google Chrome Extensions are browser extensions that modify the Google Chrome browser. These extensions are written using web technologies like HTML, JavaScript, and CSS. Google Chrome Extensions are downloadable through the Chrome Web Store (formerly the Google Chrome Extensions Gallery). By February 2010, over 2,200 extensions had been published by developers. All users with a Google Account are able to add extensions after developing them.

2.3. AZURE[3]

Microsoft Azure is a growing collection of integrated cloud services that developers and IT professionals use to build, deploy and manage applications through global network of datacenters. With Azure, user get the freedom to build and deploy wherever they want using the tools, applications and frameworks of their choice.

2.4. JavaScript[4]

JavaScript is a high-level, dynamic, untyped and interpreted programming language. It has been standardized in the ECMAScript language specification. Alongside HTML and CSS, JavaScript is one of the three core technologies of World Wide Web content production; the majority of websites employ it, and all modern Web browsers support it without the need for plug-ins. JavaScript is prototype-based with first class functions, making it a multi-paradigm language, supporting, object-oriented, imperative, and functional programming styles. It has an API for working with text, arrays, dates and regular expressions, but does not include any I/O, such as networking, storage, or graphics facilities, relying for these upon the host environment in which it is embedded.

2.5 Microsoft SQL Server[5]

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications—which may run either on the same computer or on another computer across a network (including the Internet).

2.6. HTML[6]

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a webserver or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

2.7. ASP.NET[7]

ASP.NET is an open-source server-side web application framework designed for web development to produce dynamic web pages. It was developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services. It was first released in January 2002 with version 1.0 of the .NET Framework, and is the successor to Microsoft's Active Server Pages (ASP) technology. ASP.NET is built on the Common Language Runtime (CLR), allowing programmers to write ASP.NET code using any supported .NET language. The ASP.NET SOAP extension framework allows ASP.NET components to process SOAP messages.

ASP.NET is in the process of being re-implemented as a modern and modular web framework, together with other frameworks like Entity Framework. The new framework will make use of the new open-source .NET Compiler Platform (code-name "Roslyn") and be cross platform. ASP.NET MVC, ASP.NET Web API, and ASP.NET Web Pages (a platform using only Razor pages) will merge into a unified MVC 6. The project is called ASP.NET Core.

2.8. CSS[8]

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.

3. DESIGN

DUYARLI OL

Duyarli.ol

Bir Duyarlılık Kampanyasıdır.

☞ Alışveriş Yaparken Aldıklarımıza Ne Kadar İhtiyacımız var?
☞ Ürünü Alırken Bütçemizden Ne Kadar Eminiz?
☞ Geriye Dönüp Baktığımızda Boşa Harcanan Bi Ton Paralar mı Görüyoruz?

O Zaman..
Tam Yerindesiniz.

Sitemizde Anlık Finansal Durumunu Takip Edebilir ✓
Chrome Eklentimiz Sayesinde Daha Duyarlı Alışveriş Yapabilirsin ✓

Haydi Hemen Kaydol

Sisteme Giriş Yap / Kaydol

Kullanıcı Adı

Şifre

Giriş Yap

ya da

Facebook ile Giriş Yap / Kayıt Ol

Google ile Giriş Yap / Kayıt Ol

Hakan Yıldız - Okan Öztaban

BİM444

duyarli.ol bir duyarlılık kampanyasıdır.

Figure 3.1. Login Screen

When the user access the web app in the first time, user should be registered this system via Facebook or Gmail login. After the authentication completed, system wants from user to create username and password for accessing the system. User can reach the Duyarlı Ol Homepage by completing the required procedures.

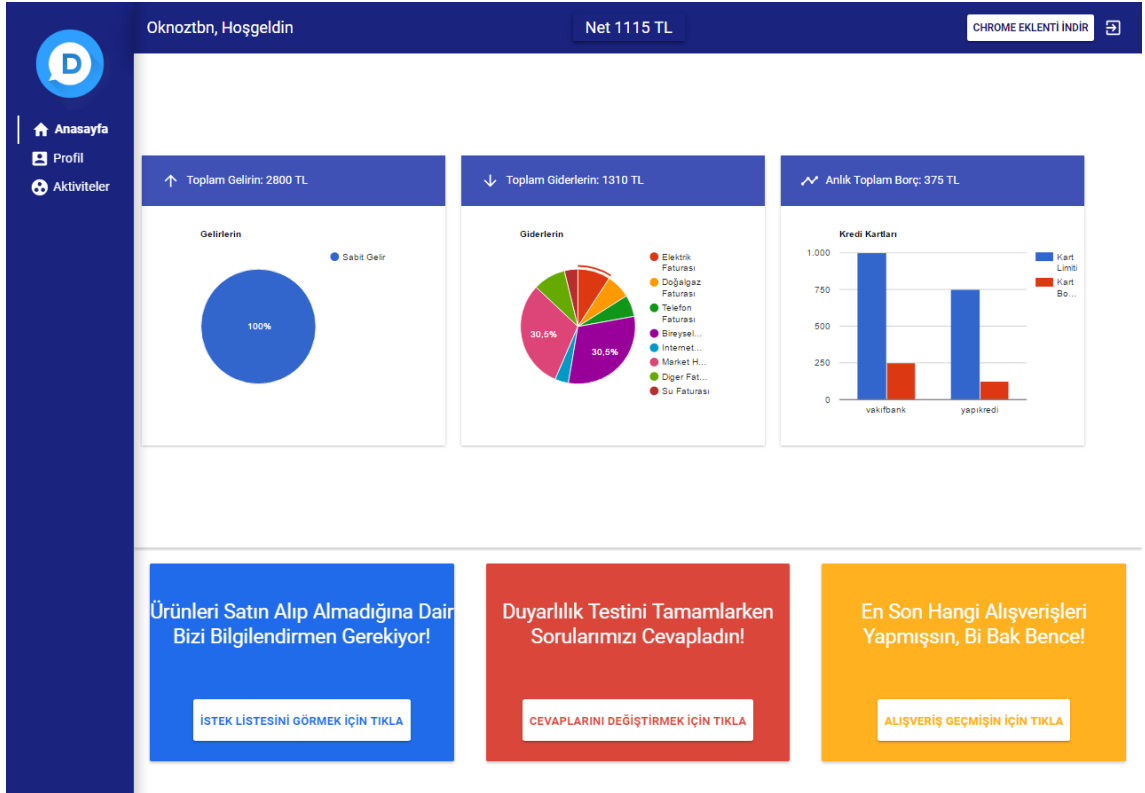


Figure 3.2. Homepage

Users can see total income, outcome, instant total debt. Also, user gets information as a graphically. User should give information about last shopping for taking or not taking last product. If User don't do the sensivity thesis before completing the shopping, they can do it on homepage. Also, If User doesn't remember product which buy on the last shopping, they can learn easily. Questions part will be active after user complete question part in the shopping process. If the user has already answered question, user can reach questions part above and may changed own answers.

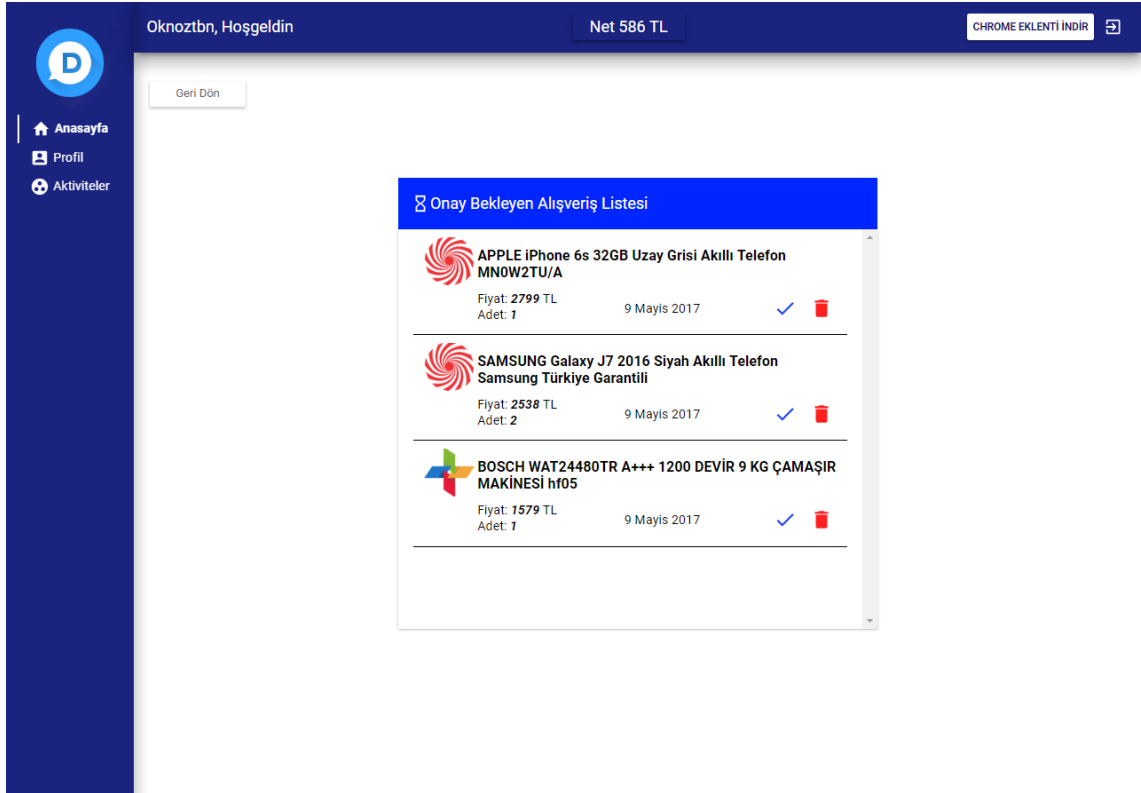


Figure 3.3. List of Shopping

Users can reach the list of the shopping. This list contains not approved items. User has a 2 action for each item. If the user want to announce to not buy any item in the list, user may click trash button related to item and then it will be deleted from list. In the another way, If user want to announce to buy any item in the list, user should click the tick button. After the click event, popup will be appeared on the screen and system will ask to user which credit card to choose to complete the transaction. If the selected card has a sufficient limit, transaction will be completed, otherwise system wants to user to select another card for this transaction.

Gelir **Gider** **Kredi Kartları**

Gelir Bilgilerin

Durum
Öğrenci

Aylık Net Gelir
₺900

Aylık Ek Gelir
₺0

GÜNCELLE

Kredi Kartı Bilgilerin

vakıfbank
limit 500 ₺ borç 100 ₺

yapikredi
limit 750 ₺ borç 250 ₺

YENİ KART EKLE

Gider Bilgilerin

Ödemelerin	Harcamaların
Ev Kiran ₺0	Aylık Tahmini Bireysel Harcamaların ₺100
Elektrik Faturan ₺40	Aylık Tahmini Alışveriş Masrafların ₺100
Doğalgaz Faturan ₺90	
Telefon Faturan ₺80	
İnternet Faturan ₺50	
Su Faturan ₺50	
Diğer Faturaların ₺100	

GÜNCELLE

Figure 3.4. Profile

Profile part has 3 parts about user's information. User can access this part by clicking 'Profil' button on the left navigation bar. When the user access the page, the income page appears. In the income page, user can monitorize details of own instant income. If the user want to update data of income, user can edit these incomes, it is enough to click the 'Güncelle' button. If the user want to access the details of outcome and credit cards, user should click the navigation button in the top of current page. Processes of outcome and credit card is the same as income part. In addition to this, in the credit card part, user can delete any active credit card and also may add new credit card. All of these actions works on asynchronous. When the new data update, the graphical appearances of user's information is automatically updated.

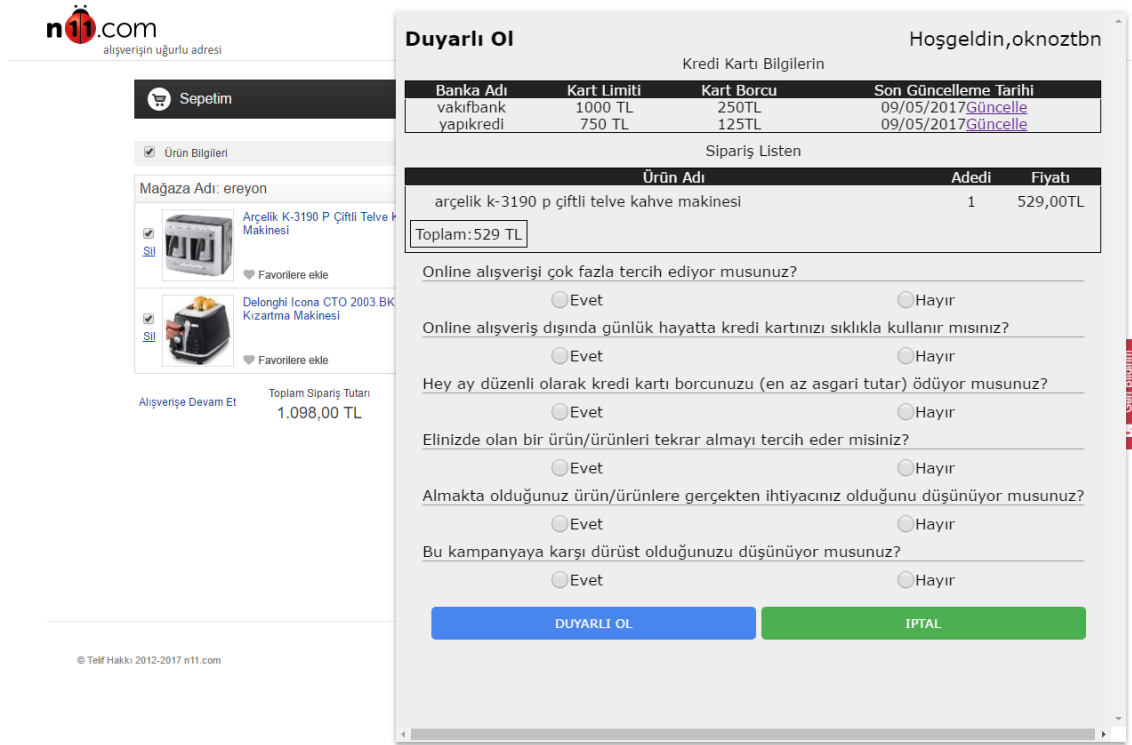


Figure 3.5. Extension of Duyarlı Ol on Shopping Website

Firstly, user must install 'Duyarlı Ol' chrome extension for the system run. User can download extension by clicking 'Chrome Eklentisini İndir' button where is located in the upper right corner of web app. After the installation, extension works on e-commercial webpages without any requirements.

When user click 'Devam' button in n11.com 'Sepetim' part, extension will be appeared on the screen. System will asks user to answer questions in the first time. If user complete this part at least one, system won't ask again to answer the specific questions. User may change answers of question in the homepage of Duyarlı Ol web app whenever they want. User is directed before they completed the shopping. On the picture users, can see credit cards information and product that they want to buy.

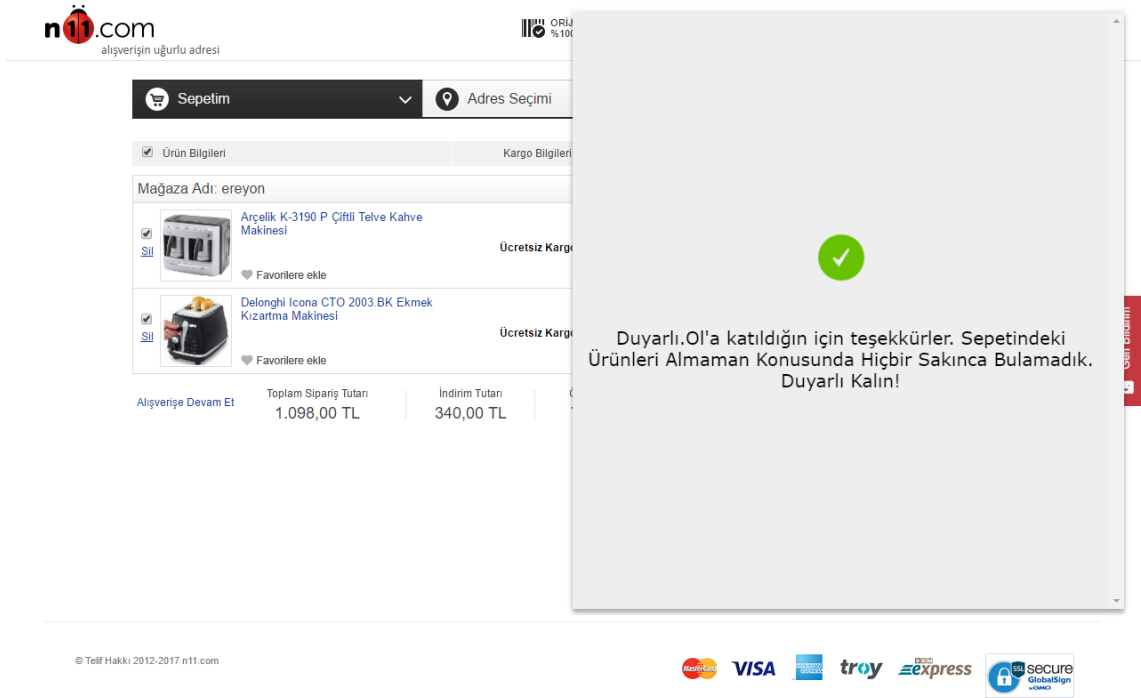


Figure 3.6. Extension of Duyarlı Ol with n11.com

If the user clicks the 'Duyarlı Ol' button in the screen generated by extension, the testing part will start. Our application calculates the information that the user has entered and returns a result as to whether the product it received is suitable. In the picture above, the situation after the calculation is shown. It is stated that there is no inconvenience for the user to make purchases because the shopping situation of user is suitable.

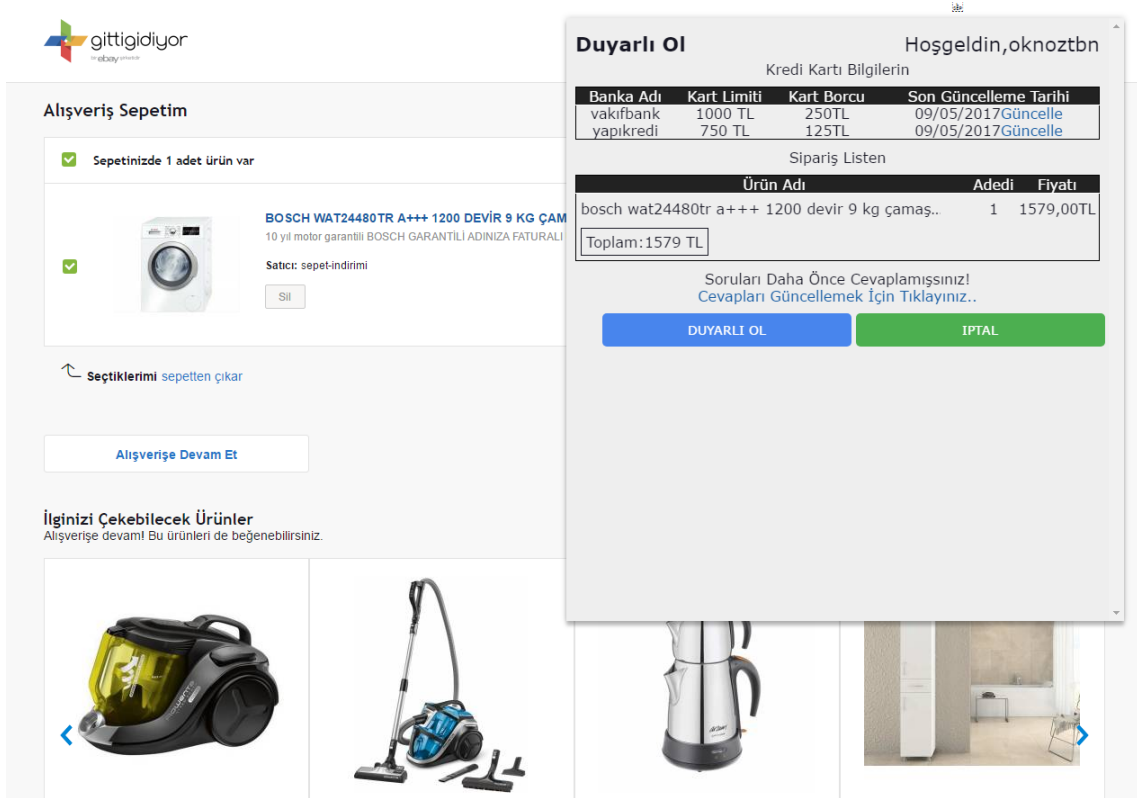


Figure 3.7. Extension of Duyarlı Ol with gittigidiyor.com

Firstly, user must install 'Duyarlı Ol' chrome extension for the system run. User can download extension by clicking 'Chrome Eklentisini İndir' button where is located in the upper right corner of web app. After the installation, extension works on e-commercial webpages without any requirements.

When user click 'Satın Al' button in **gittigidiyor.com** 'Alışveriş Sepetim' part, extension will be appeared on the screen. User is directed before they completed the shopping. On the screenshot, users can see credit cards information and product that they want to buy. Also, because the user has answered our questions previously, there is no reason to have our questions displayed on the screen again. It works on **gittigidiyor.com** shopping site.

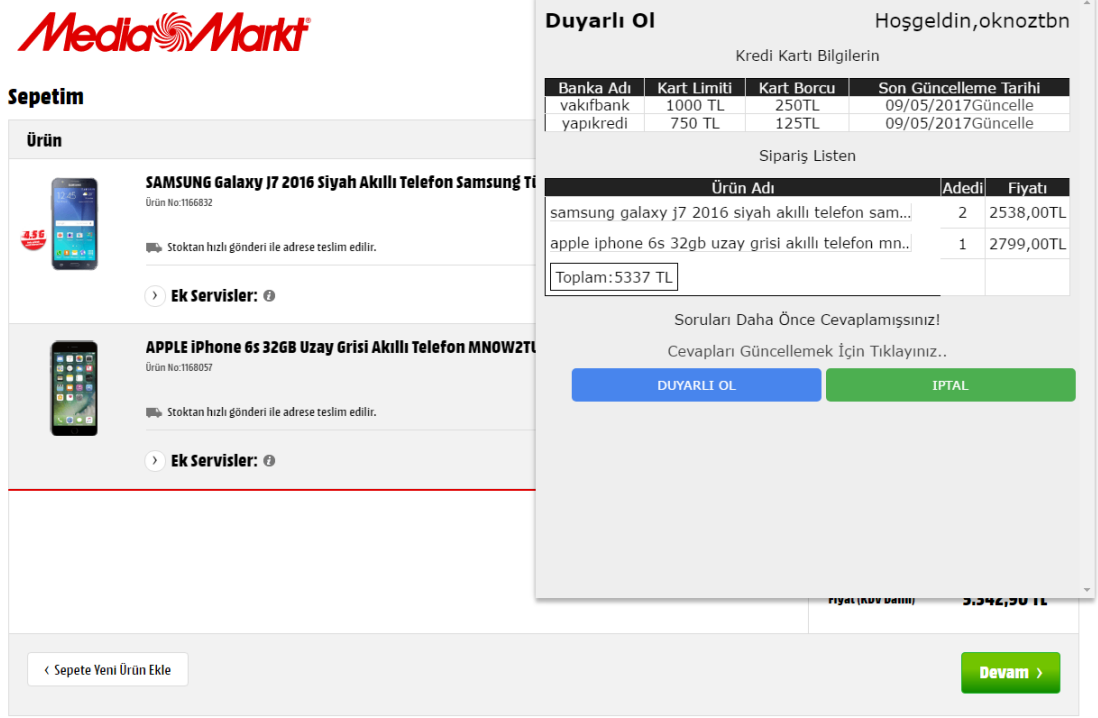


Figure 3.8. Extension of Duyarlı Ol with mediamarkt.com.tr

Firstly, user must install 'Duyarlı Ol' chrome extension for the system run. User can download extension by clicking 'Chrome Eklentisini İndir' button where is located in the upper right corner of web app. After the installation, extension works on e-commercial webpages without any requirements.

When user click 'Tamamla' button in **mediamarkt.com.tr** 'Sepetim' part, extension will be appeared on the screen. User is directed before they completed the shopping. On the screenshot, users can see credit cards information and product that they want to buy. Also, because the user has answered our questions previously, there is no reason to have our questions displayed on the screen again. It works on **mediamarkt.com.tr** shopping site.

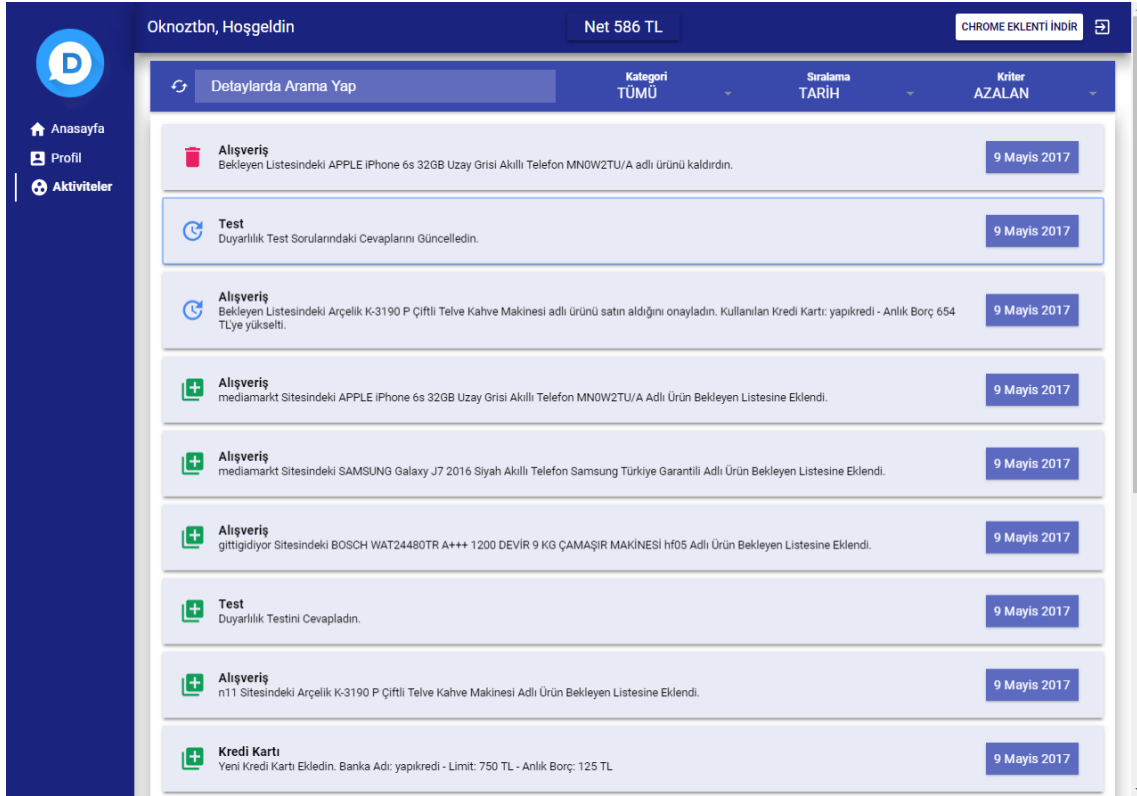


Figure 3.9. Event in Web App

User can access this part by clicking ‘Aktiviteler’ button on the left navigation bar. When the user access the page, the list which includes all records of user is made appears. Each list item includes interaction icons, title and description of process and processing date. User can make a search over the list items. User may display records according to categories, rankings and criteria using selection tools in the toolbar.

4. CONCLUSIONS

At the end of the project, we were able to show how much the user needed to shop in his own budget. The user had seen that the product he had bought with the amount of budget he had was in line with his budget. We made a second thought about buying products while shopping for individuals. We did our campaign of sensitivity. **Duyarlı Ol** a sensitivity campaign.

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