Web Based Technologies – Final

In this homework, you will design a news crawling website that parse news from a particular RSS and instantly updates itself.

You have to design **three** web pages, **Home.aspx**, **RSSparsing.aspx, NewsDetail.aspx** and a class page (**News.cs**) that holds news information.

News.cs

1. Add a class file named **News.cs** into your project (Add New Item, Class). This file will contain information about the news. If you encounter a message which states that this file should be in **App_Code** folder, then select **Yes** and let Visual Studio create the **App_Code** folder for you and put **News.cs** file in this folder. After then, you will be able to use the **News** class in your application like any other classes of .NET library.

```
public class News
{
    public int NewsID;
    public string Title;
    public string Description;
    public string Category;
    public string Author;

    public string PubDate;
    public string ImageUrl;

    public News(int NewsID, string Title, string Description,
    string Category, string Author, string PubDate, string ImageUrl)
    {

        this.NewsID = NewsID;
        this.Title = Title;
        this.Description = Description;
        this.Category = Category;
        this.Author = Author;
        this.PubDate = PubDate;
        this.ImageUrl = ImageUrl;
    }
}
```

Design of RSSparsing.aspx

This website will be use to parse the xml from https://ajanda.dha.com.tr/rss-linkler/. You are expected to parse the news about the following categories;

- **Dış Haberler,**
- **Eğitim**
- **Ekonomi**
- **Gündem**
- **Magazin**
- **Siyaset**
- **Spor**

The following information about news will be downloaded and stored in a ArrayList. You can consider up to 20 news for each category. Each news should be saved with unique id, which is called as **NewsID**. Information that are needed to be parsed are:

- **Title**
- **Description**
- **Category**
- **Author**
- **PubDate**
- **ImageUrl**

This information of news are located in <item> tag. Therefore, you should consider only <item> tags when parsing the xml file.

Check List of HW:

Step1. You should retrieve all information of news from xml file.

Step2. Then store each news into a news object by using News.cs

Step3. Store each news object into an ArrayList.

Step4. Also, save all news from ArrayList to .mdb (only access database). Your database should contain all of old news. Don't allow the news to be repeated. For this purpose, check the Title of News.

Step5. Retrieve today news by connecting the local database and keep news in the ArrayList.

Step6. Display the today news according to their category. You can use any design. For instance; you can use any slider and if a news is clicked, then you can display news information in detail page, namely **NewsDetail.aspx**.

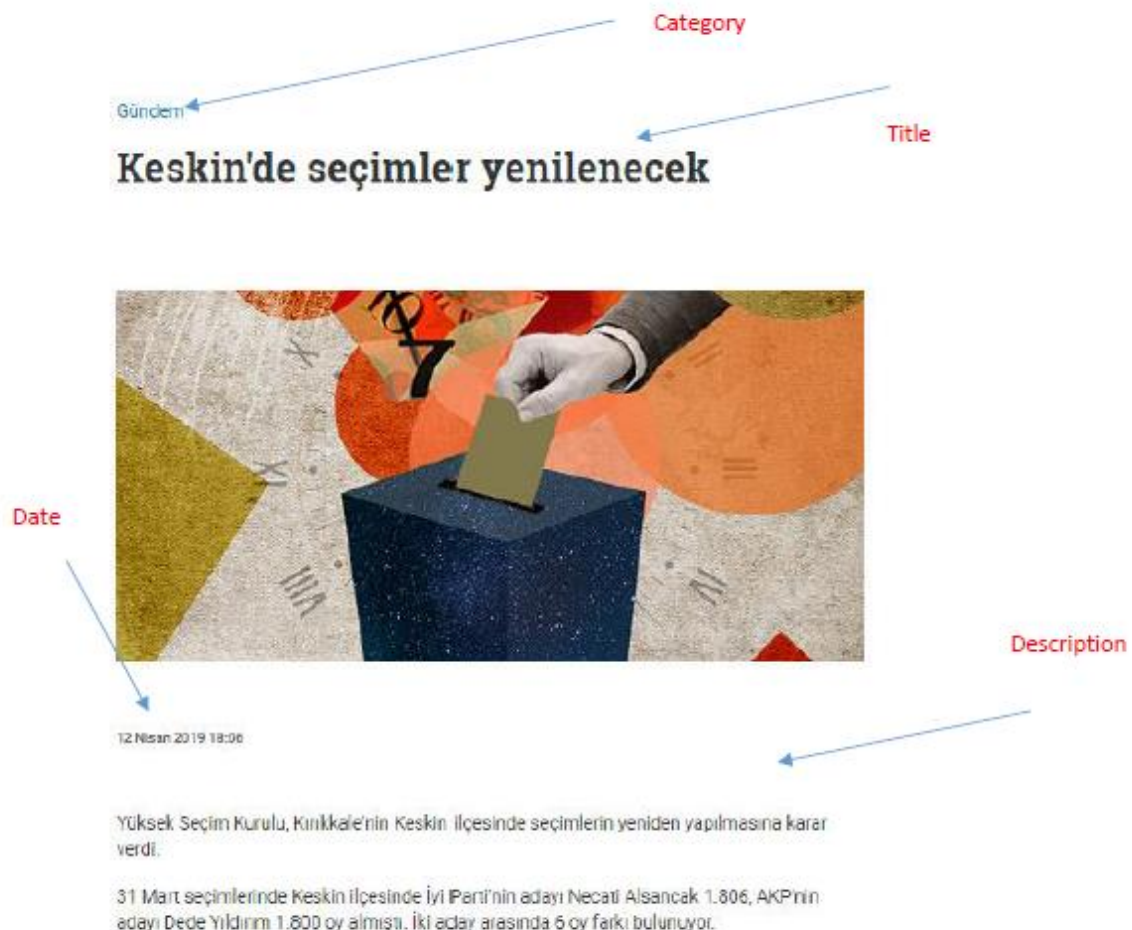When a news clicked you should display the following information.
- Title
- Description
- Category
- Author
- PubDate
- Image

Step7. You are expected to record some logs. You have to use any logger available in Nuget Package. You should write the exception message into logger file by using selected Nuget logging Package.

Step8. Display all news and categories in Home.aspx, when a news is clicked, then show details in NewsDetail.aspx.

Design of NewsDetail.aspx

The details of a news should be displayed in NewsDetail.aspx which is shown Fig. 2. You will graded based on your design.

Step9. The RSSparsing.aspx should be updated (reloaded) in every 30 seconds.
Don't use dev express.

The main of RSSparsing page is to save news in database and holds news in a session with ArrayList.

Projede ilk RSSparsing.aspx çalıştırılacak.

Sonra haberler session da tutulacak.

Bir kullanıcının Home.aspx e bağlandığı düşünülecek ve Home.aspx sadece sessiondaki haberleri gösterecek.

Your design will be graded over 30 points.

Submitting the HW
You have to prapere a small video to demonstrate your final project. Share the link of video in dys.

Examle; Name-Surname-Final.Zip