

Basaer



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ACKNOWLEDGEMENT

For every Doctor, Engineer and Instructor.

For everyone working at ITI.

We want to thank all of you for giving us the chance to be part of this big family.

We learned new both technical and personal skills.

We meet new people sharing same interests.

We had such a great journey and it is time to start then next chapter of our lives.

Thanks a million.

ABSTRACT

We all know that religion is the most valuable and important things in our life as humans.

But there is always a problem of who to follow and who to take an advice from?

Our application is a full educational portal that helps people who want to learn their religion a way of interaction with instructors who have good knowledge and experience in teaching.

CHAPTER 1 : Introduction

Introduction

First of all the project was introduced to us by Ayman who knows someone who wants a full educational portal to communicate with his students who want to learn the religion from a respectable source.

At first, we were hesitated because we were still in the middle of the scholarship and we were not sure that we can do the project or not.

But after that we thought that this project is a good way to show our capabilities and skills and it is also going to be a good way to help people understand their religion more.

The project allows teachers, supervisors, owner and students to communicate with each other through this portal. It also allows teacher to give lessons to their students through the website. It also gives the student the chance to enroll in different courses and take a certificate after studying the course from the instructor.

The project also has a feedback system which is going to help instructors receive feedback on their performance from students which is going to help them later.

It also gives full control to the owner of the website to add admins and instructors in the website and control everything in it.

Future releases plans

In the future releases we are planning to convert the website into something like Udemy or Maharatech at which you can put the videos on the website itself without posting them on Youtube or Sound cloud first.

We are also thinking of providing website like this to different places in Egypt because this website is Saudi.

So, we are planning to use its success after release to further expand our work in Egypt and provide even better websites with a better user interface.

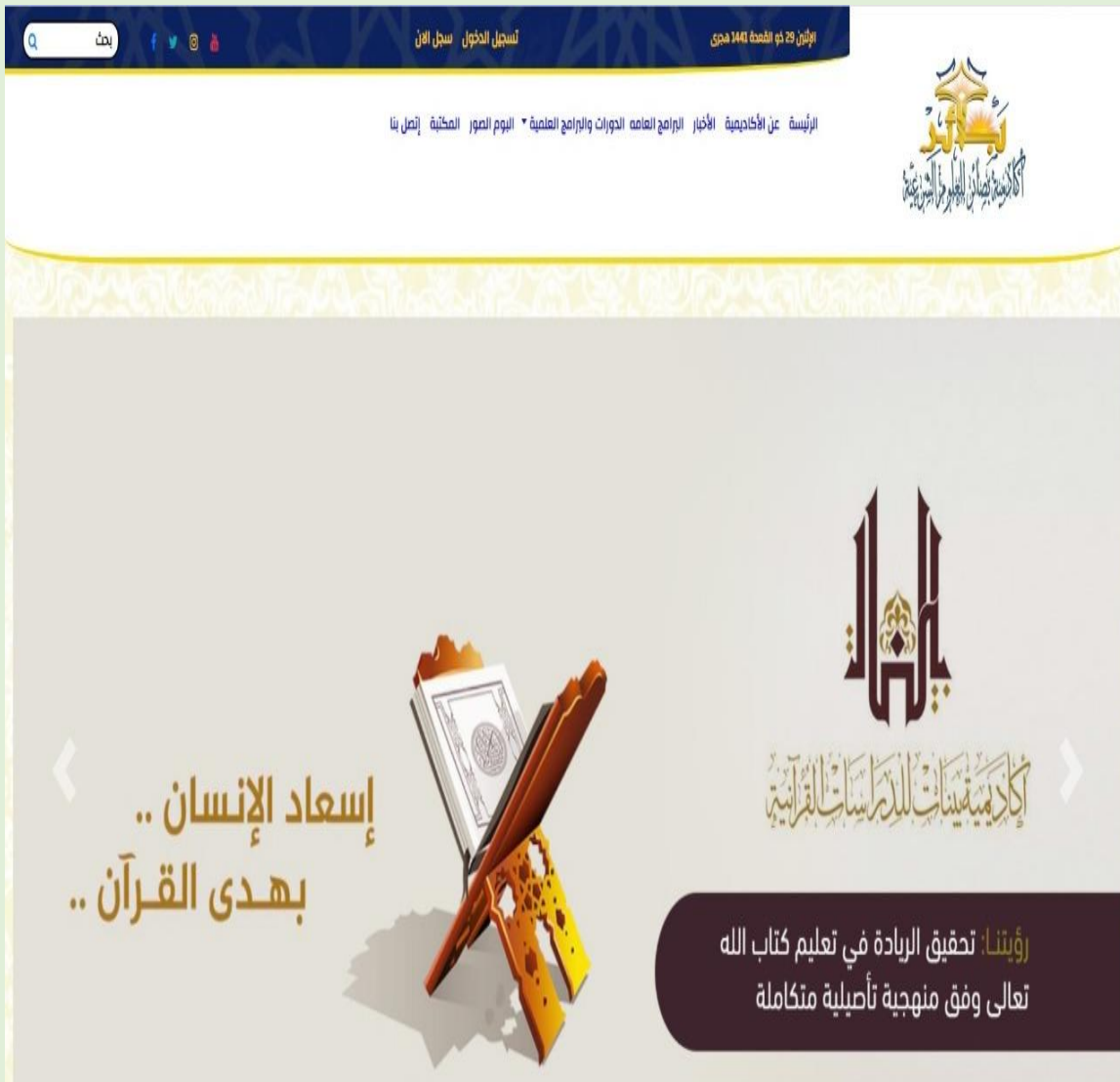
We are also thinking of doing a mobile application for the website because it is going to help a lot the website to spread more because most of the people today use mobiles more than computers.

CHAPTER 2: Project Guide

Overview of some essential pages

Landing Page

Home



Registration

Allows students to register in the website

البريد الالكتروني	<input type="text"/>
اسم المستخدم	<input type="text"/>
الاسم كامل	<input type="text"/>
نوع الطالب	<input type="text" value="طالب"/>
كلمة السر	<input type="password"/>
تأكيد كلمة السر	<input type="password"/>
رقم الهاتف	<input type="text"/>
الجنسية	<input type="text"/>
اسم الدولة	<input type="text" value="مصر"/>
المؤهل	<input type="text" value="متوسط"/>
تاريخ الميلاد	<div><div><input type="text" value="1"/></div><div><input type="text" value="يناير"/></div><div><input type="text" value="1996"/></div></div>

استط

Feedback

Allows users to give feedback to the website owner.

البريد الإلكتروني:

الاسم بالكامل:

البريد الإلكتروني:

موضوع الرسالة:

رسميات:

مضمون الرسالة:

[إرسال الرسالة](#)

البريد الإلكتروني:

الاسم بالكامل:

البريد الإلكتروني:

موضوع الرسالة:

رسميات:

مضمون الرسالة:

[إرسال الرسالة](#)

Instructor panel

Allows instructors to handle programs and exams. It also allows then to add book sections and books.



Creating Program

Allows instructors to add new programs with their lectures to the website.

إضافة دورة أو برنامج جديد

<input type="text"/>	عنوان البرنامج
<input type="text"/>	الصورة الرئيسية
<input type="text"/>	نبذة عن البرنامج
<input type="text"/>	مدة البرنامج
<input type="text"/>	مميزات البرنامج
<input type="text"/>	أهداف البرنامج
<input type="text"/>	نوع البرنامج
<input type="text"/>	صورة البرنامج
<input type="text"/>	الشفة المستهدفة

المحاضرات

لينك فيديو المحاضرة

لينك الصوت الخاص بالمحاضرة

إضافة محاضرة

Student panel

Where Students can handle all their profile information and edit it. Also where they take programs and listen to its lectures

The screenshot displays the Student Panel interface. On the left is a teal sidebar with the university logo and navigation buttons for 'الأخبار' (News) and 'المكتبة' (Library). The main content area is titled 'البيانات الشخصية' (Personal Information) and shows a table with the student's details: Ahmed El Sherif, ID 16, Faculty 16, and Age 24. Below this are two tables: 'البرامج و الدورات المسجلة' (Enrolled Programs and Courses) showing one enrolled program, and 'البرامج و الدورات المكتملة' (Completed Programs and Courses) showing one completed course. On the right is a teal sidebar with the student's name, a profile picture, and a list of navigation options: 'تغير البيانات الشخصية' (Change Personal Information), 'تغير كلمة المرور' (Change Password), 'المسجل الدورات' (Enrolled Courses), 'برامج التعلم الإلكتروني' (E-Learning Programs), 'البرامج و الدورات' (Programs and Courses), 'الأنشطة' (Activities), 'المشاهدات' (Views), and 'الدرجات' (Grades).

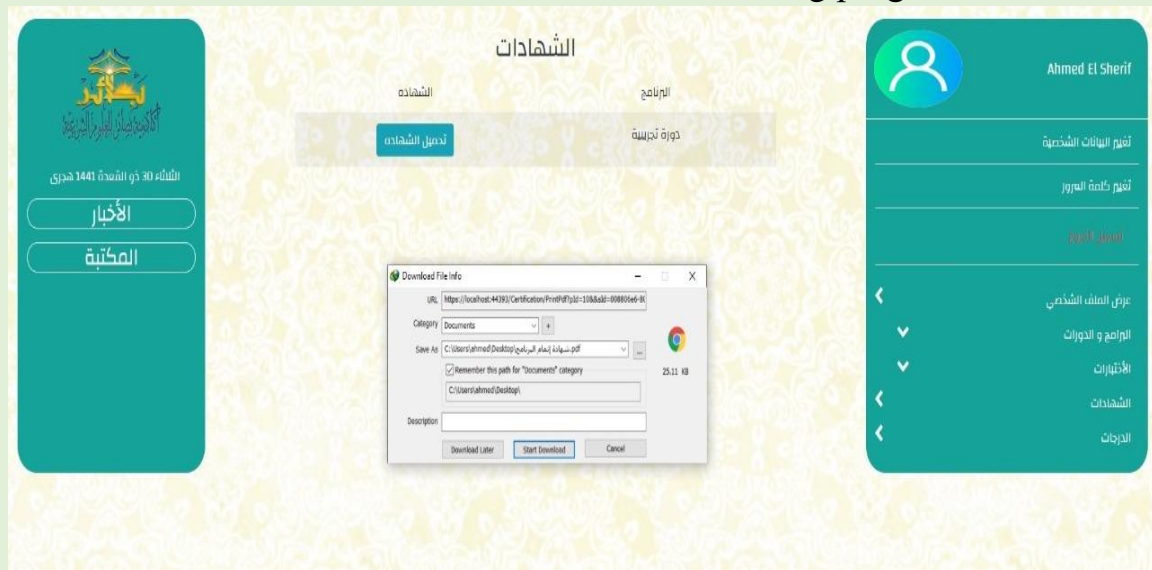
Changing personal information

Allows students to change their personal information

The screenshot shows the Student Panel interface with the 'تغير البيانات الشخصية' (Change Personal Information) modal open. The modal contains fields for: 'الاسم بالكامل' (Full Name) with the value 'Ahmed El Sherif', 'رقم الهاتف' (Phone Number) with the value '1234567890', 'الجنسية' (Nationality) with the value 'مصري' (Egyptian), 'الدولة المقيم بها' (Residing Country) with a dropdown menu, 'المؤهل' (Degree) with a dropdown menu, and 'تاريخ الميلاد' (Date of Birth) with the value 'AM 12:00:00 7/21/2020'. At the bottom of the modal are two buttons: 'حفظ التغييرات' (Save Changes) and 'إلغاء' (Cancel). The background shows the same interface as the previous screenshot, but with the modal overlay.

PDF Certification Download

Where students download their certificates after taking program's exam.



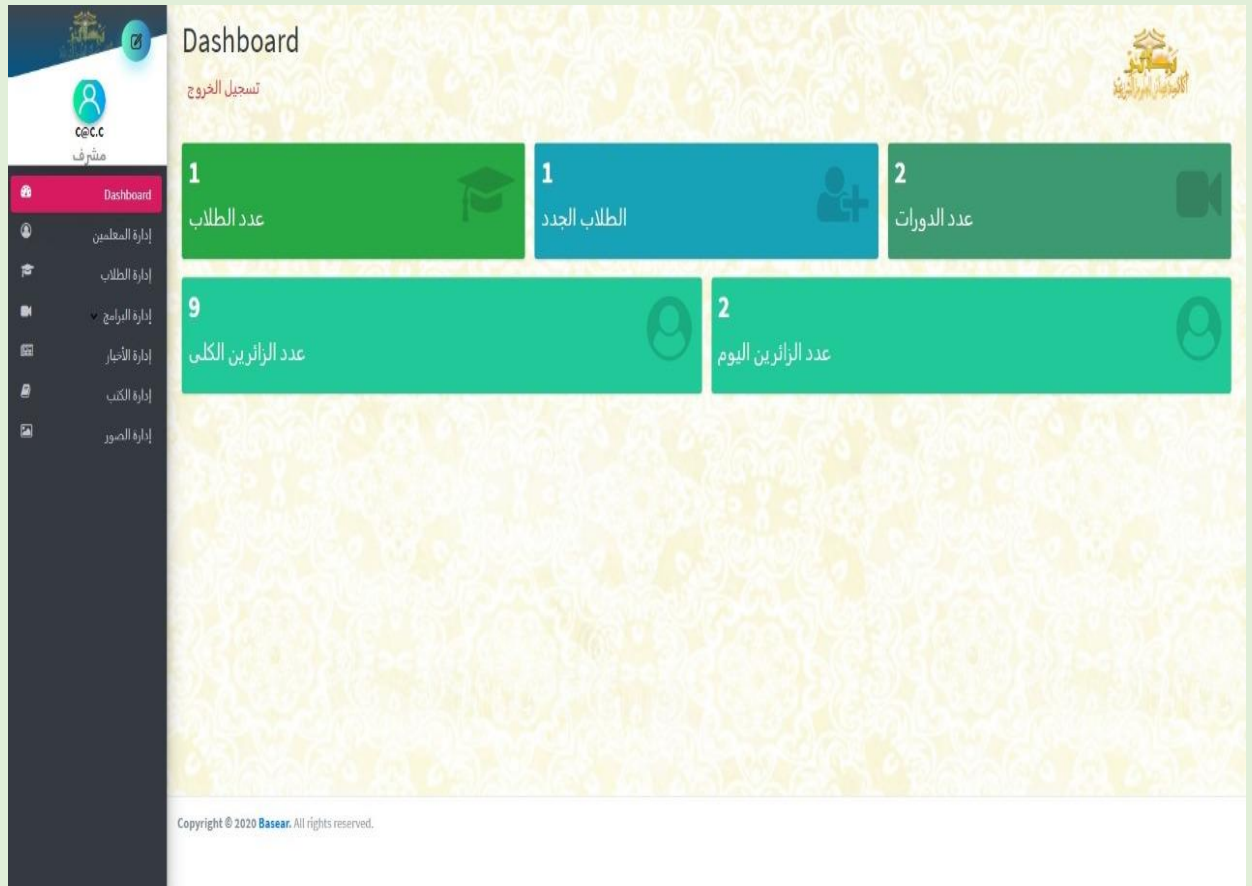
Taking Exam

Where Students take exams after finishing the program. They need to achieve certain score in order to take their certificate.



Admin/Owner Dashboard

Where admins/owner can know number of visitors, number of programs, students enrolled and controls all different sections of the website through it.



CHAPTER 3 : Work Flow

Gathering the team

First Ayman got the project from a customer he knows. Then he communicated with everyone individually and we all agreed to work on such ideal project.

Choosing tools

- I. We wanted to use asp.net core but at that time we had just studied .NET MVC framework so we decided to work with it
- II. .NET Framework and the MVC architecture pattern helped us to divide the project into three parts models, views and controllers which helped us to work on it
- III. We saw some educational website and we decided to go on with our own design which we developed.
- IV. Finally for code integration we used Git.

Work Steps

- I. Defining structure for working life cycle
- II. Defining the design of front end pages
- III. Defining Database structure.
- IV. Add registration and login
- V. Add Home Component
- VI. Add Navigation
- VII. Add books section
- VIII. Add Admin Panel
- IX. Add Teacher Panel
- X. Add Student Panel
- XI. Programs Section
- XII. Exams System
- XIII. Certificate System
- XIV. Feedback System

Design and finishing

We didn't work on a predesigned layout so we agreed to do our best to come up with a nice UI.

We browsed some educational website and tried to demonstrate the best out of every website we saw.

We were always listening to comments given to us by the project owner until he got satisfied with the design.

CHAPTER 4 : Front-End

Front-End Technologies used

Working on Basaer we decided to use

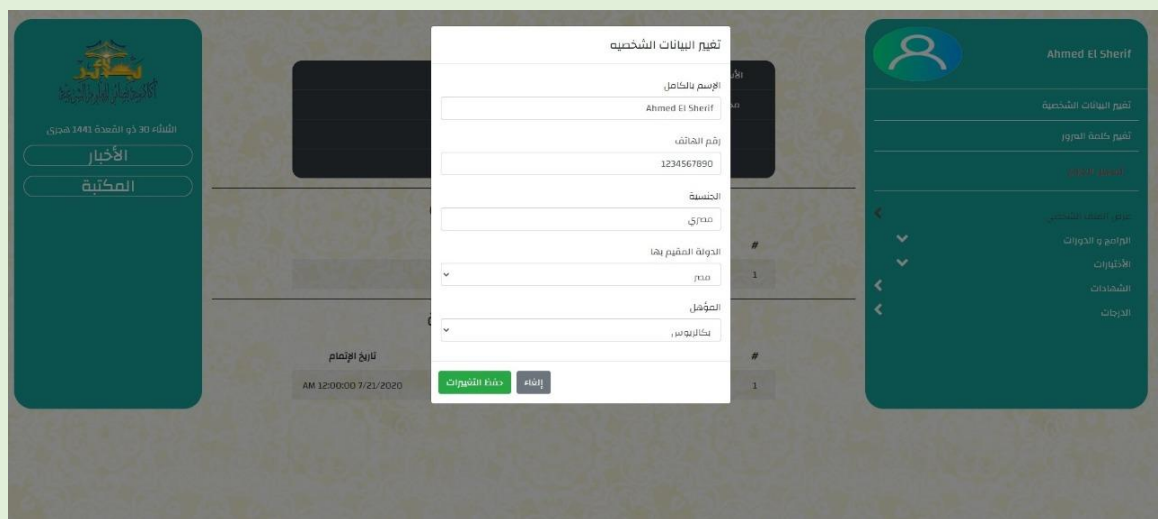
1. HTML
2. CSS
3. JavaScript
4. BootStrap 4
5. JQuery

We didn't get the chance to work with a front-end framework because we worked on the project before we had the classes so we decided to work with plain JavaScript, HTML and CSS.

We did work with jquery in some views of the project as well.

We used a lot of UI bootstrap components like

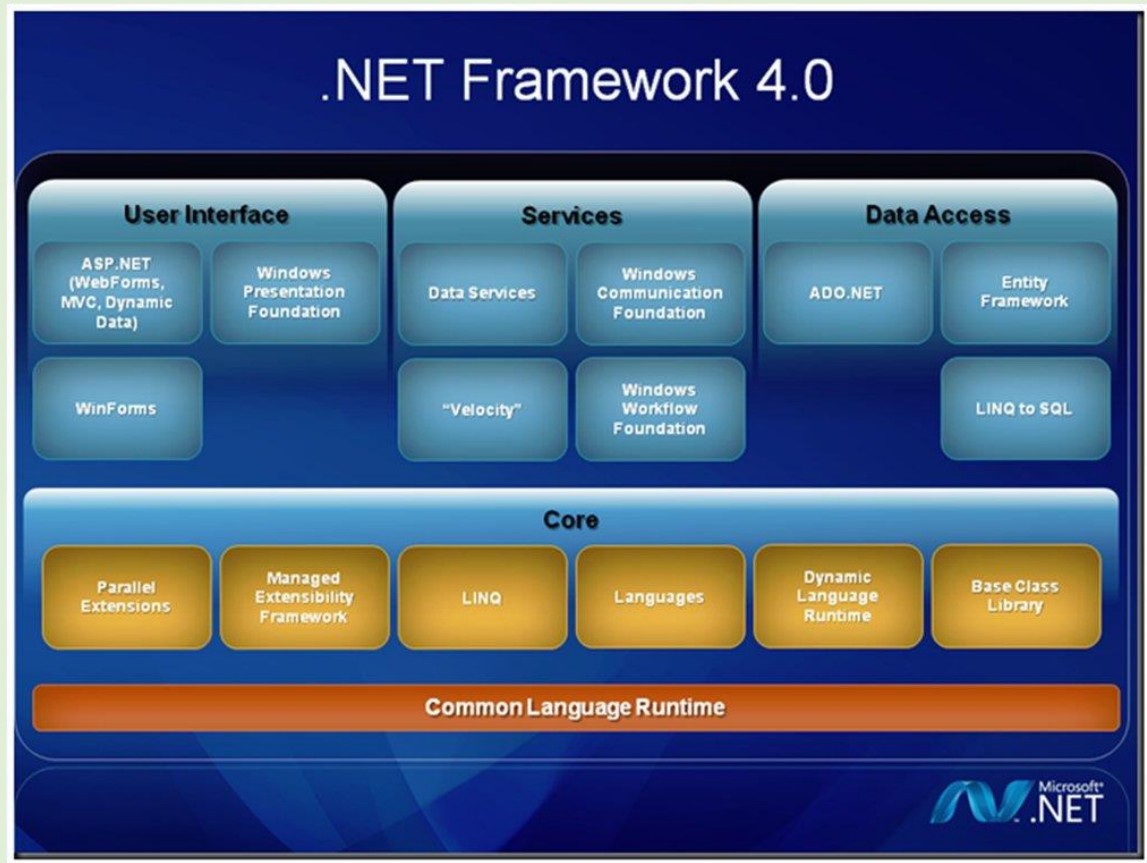
- Navbars
- Grid systems
- Icons
- Modals
- Cards



Bootstrap4

- Bootstrap is a free front-end framework for faster and easier web development
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create responsive design

Chapter 5 Back-end



Back-end Technologies & Dependencies:

- C# Using (.NET Framework)
- Entity Framework
- SQL Server Database (Relational Database)
- Identity For (Authentication -rules)
- Simple mail protocol Service (Send Mail)

What is .net Framework ?

.NET is a free, open-source cross platform, created by Microsoft and intended for the development of web applications following the model–view–controller (MVC) architectural pattern and you can use it even for mobile applications, Desktops and games.

Why .Net Framework ?

1. .net framework is The most popular framework for making web applications using C# Because its Powerful Features Like
 - Security
 - MVC SUPPORT
 - Seeds & Testing
 - API Resources
 - Validations
 - Authentication & Authorization
 - Middlewares
 - Migrations
 - Policies
 - Task Scheduling
 - Email Services
 - Real-time Interactive

We Will Discuss Every point in the Next Page

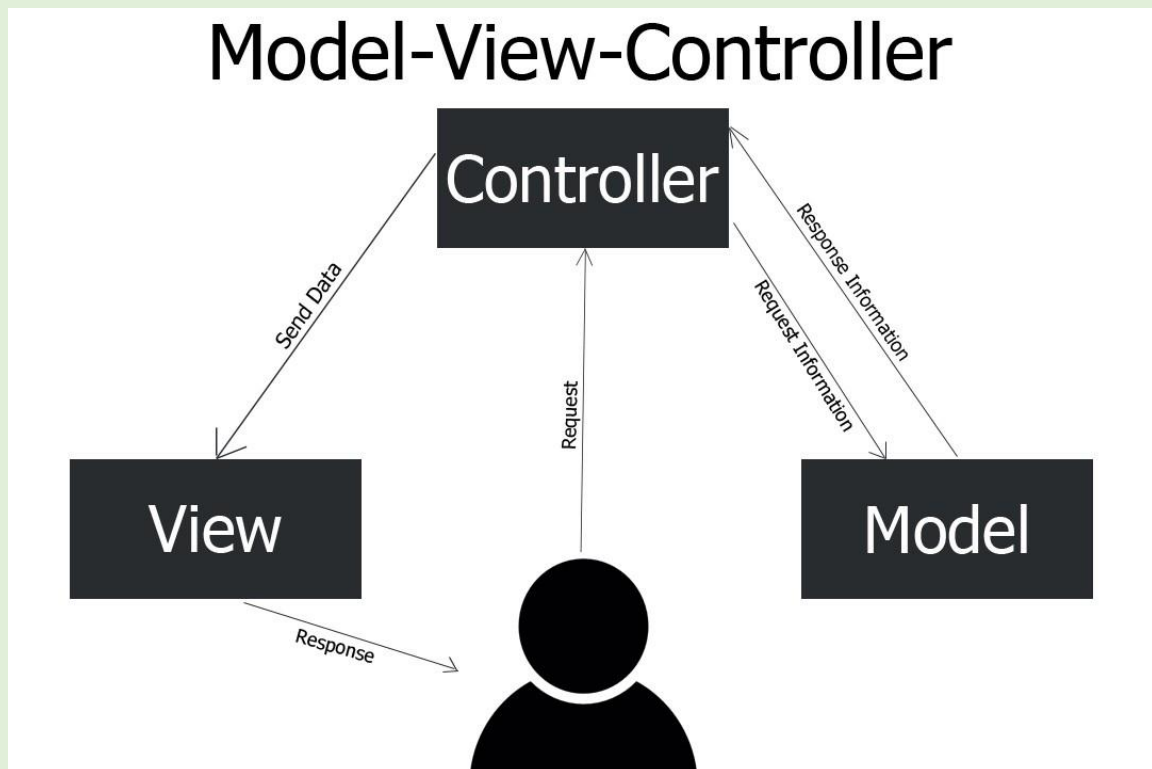
That all the most things which Takes a lot of time to build a Application and make it up and running, So By using .net framework you can make it So Easy and Just Focus on the Logic and how to build Your Application

2. .NET framework is the most Stable Framework Right now Regards to Microsoft and its community.
3. .NET framework is the most popular framework among C# developers and the most used one.

REASONS WHY ASP.NET IS ONE OF THE BEST WEB DEVELOPING TECHNOLOGIES

1. MVC SUPPORT

Which makes .net Framework the best C# framework is it supports MVC Architecture and it ensures clarity between logic and presentation. MVC helps in improving the performance, allows better documentation, and has multiple built-in functionality. Here's how the MVC works for .net.



2. AUTHORIZATION TECHNIQUE

Implementation of authentication techniques very simple. Almost everything is configured extraordinarily. .net framework also provides a simple way to organize authorization logic and control access to resources.

3. SECURITY

Everyone has to use some of the other ways too make the application secure .NET takes care of the security within its framework. It uses salted and hashed password, which means that the password would never save as the plain text in the database. It uses hashing algorithm for generating an encrypted representation of a password..



4. DATABASE MIGRATION

Developers is to keep the database in sync between development machines. With .net database migrations, it is extremely easy. After the long work hours, you may have made a lot of changes to the database and, in our option.

5. OBJECT-ORIENTED LIBRARIES

Which make .NET framework the best C# framework is it has Object Oriented libraries and many other pre-installed ones. One of the pre-installed libraries is the identity which gives you ability to authenticate the user and do hashing, password reset, CSRF (Cross-site Request Forgery) protection, and encryption.

**Thank
You**