

Code Translator

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Degree of Bachelor of Science in Computer Science and Engineering

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**DAFFODIL INTERNATIONAL UNIVERSITY**

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## **APPROVAL**

This Project titled “Code Translator”, submitted by Mr. Ahmed Al Marouf and Mr. Shah Md Tanvir Siddiquee to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held on 08-04-2018.

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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of Mr. Ahmed Al Marouf, Lecturer, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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## **ABSTRACT**

Currently we are living in a world where computers are found nearly everywhere. Every computer needs to some instruction .Computer can't do any work without any instruction .We need an language for instruction .Computer does not known our language .Computer knows only 1 or 0 binary digit .At present There are many computer languages for different purposes .Programming logic is more important .Every programming language is not possible to know by one. Some people who can write code in C language efficiently but can't write in C# language. C language is structure base programming language but C# is an object oriented programming language .If anyone doesn't know object oriented programming but he well known structure based programming language (C) then he can convert his C code to C# code by using our Code translator. Our project is implemented on the Web. The proposed application is designed and tested based on practical scenario and implemented using the visual studio IDE, .NET framework and C# languages with HTML, CSS and JavaScript for designing purpose.

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# CHAPTER 1

## Introduction

### 1.1 Overview

While developing software or web or mobile application you have to deal with programming. C programming language is a general-purpose, imperative computer programming language, supporting structured programming, lexical variable scope and recursion, while a static type system prevents many unintended operations so most of the people learn c programming language in the initial label .It is helpful for building their logic .But in the real world object oriented programming language is the most popular for implementing any idea .But it is not so easy to implement .Logic is same but syntax is different . Our code translator project helps them to learn C#(c# is an object oriented programming language). They can also convert their c code into c# language. C to C# converter will save their countless hours of painstaking work. C to C# code Converter produces great C# code and save Valuable time

### 1.2 Motivation

The main motivation comes from those people who know c programming language efficiently but don't know object oriented programming language like c# and they wants to know c# programming language and implement their idea. All programmers wish to learn the basic of all programming language. Sometime it is hard for programmers to learn all languages. Our motto is to make that dream true.

### 1.3 Objectives

- Save valuable time
- Accurate and Comprehensive
- Easy to use
- Excellent learning tools for those new to C# from C background

## 1.4 Expected Outcome

When programmers input their C language Code in the c program input field in our code translator and press go button then they will see converted C# code in the c# program output field .They can also download converted C# code just click download button .We want to satisfy these people who want to learn new programming knowledge and convert their c program code into c# program code very easily and download converted c# code. This is the expected outcome of our project. Expected outcome is any C language program can be converted into C# language

## 1.5 Report Layout

**Chapter 1:** In this chapter something about this application has been given. Motivation is also given in this chapter. Why user should use the application. Then some objective and also expected outcome are given in this chapter.

**Chapter 2:** It will provide background about this kind of application. It also provides related works about this application. Scope of problems and challenges are also given in this chapter.

**Chapter 3:** Firstly, this chapter will provide the information about business model process (BPM). Then it will provide requirement collection and analysis. After that use case model and logical model will provide in this chapter. Then the requirement is given in this chapter.

**Chapter 4:** In this chapter all the design processes are given here like front-end design, back-end design, and interaction design. The last thing of this chapter is in implementation requirement.

**Chapter 5:** This chapter discussed about the implementation of database, implementation and interaction, testing implementation and the test results of the project.

**Chapter 6:** We have discussed the conclusion of our application and the scope for further developments of our project in this chapter.

# CHAPTER 2

## BACKGROUND

### 2.1 Introduction

Nowadays internet is available for everyone .Anyone can get more information and learn new things by using internet .So web application is more popular. Thinking this world wide web we make a project which is available in web and everyone can access this web application by using internet .Our project name is Code Translator .Here everyone translate their c code to c# . This project is live on web. We use Asp.net web framework, Html, CSS and JavaScript for designing purpose .Here we use C# replacement function for converting c code to c#.

### 2.2 Related Works

Two similar kinds of web application like “code translator” name C# to VB converter and VB to C# converter .This two types of converter just work for object oriented program .It is not convert structure based program like c but our code translator work for structure based program like c language .People can’t download converted file of this two type of converter but we give the user this option.

Code Translator:

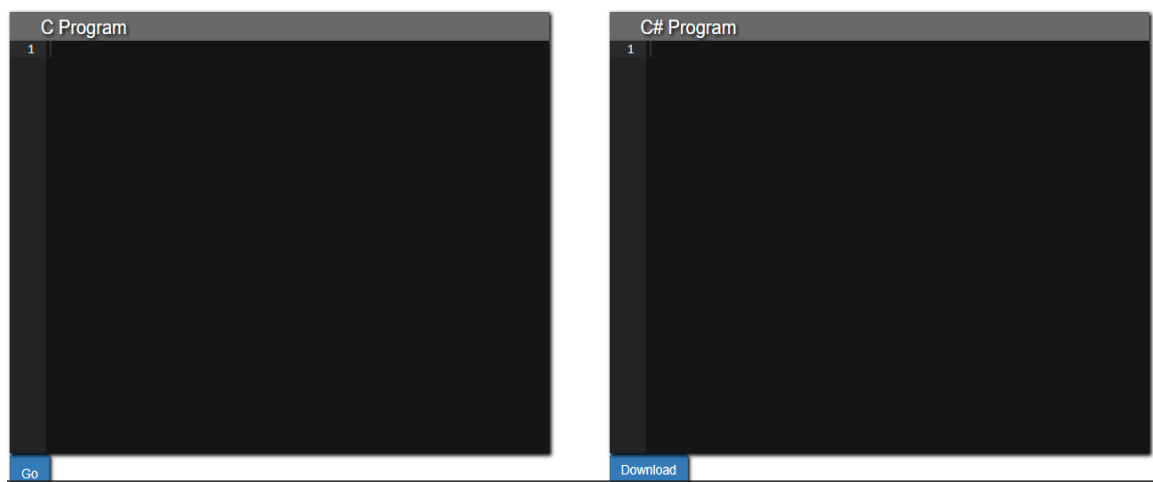


Figure 2.1: Code Translator

### C# to VB Converter:

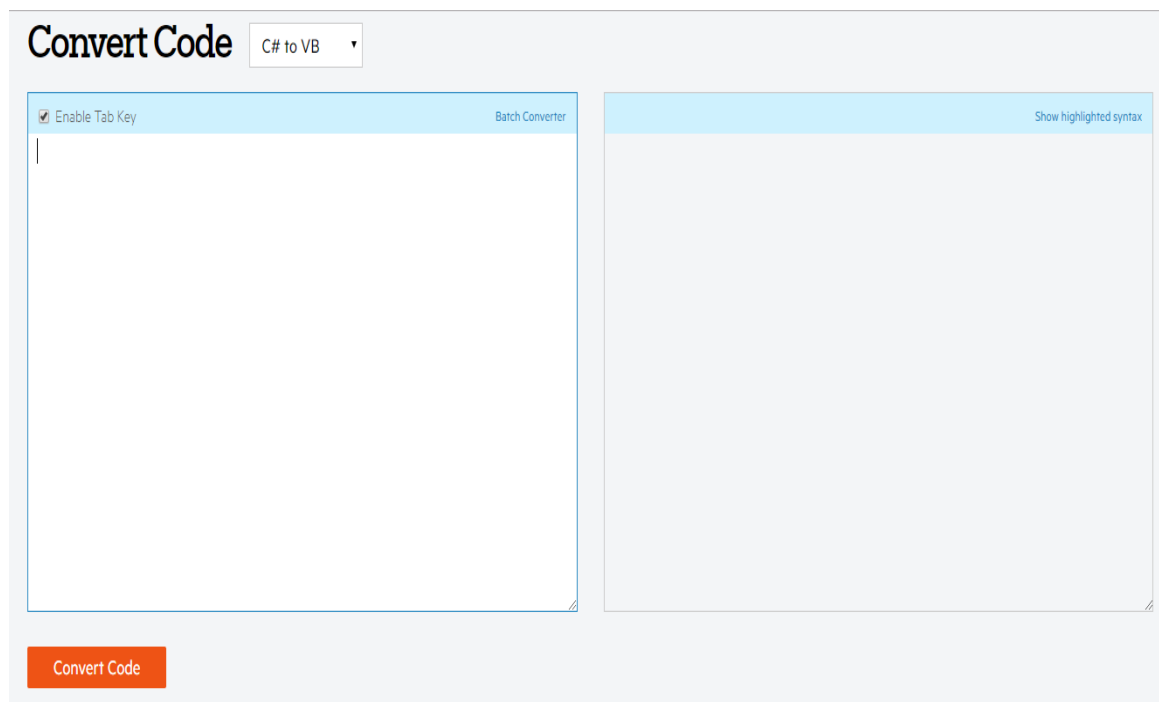


Figure 2.2: C# to VB Converter

### VB to C# Converter:

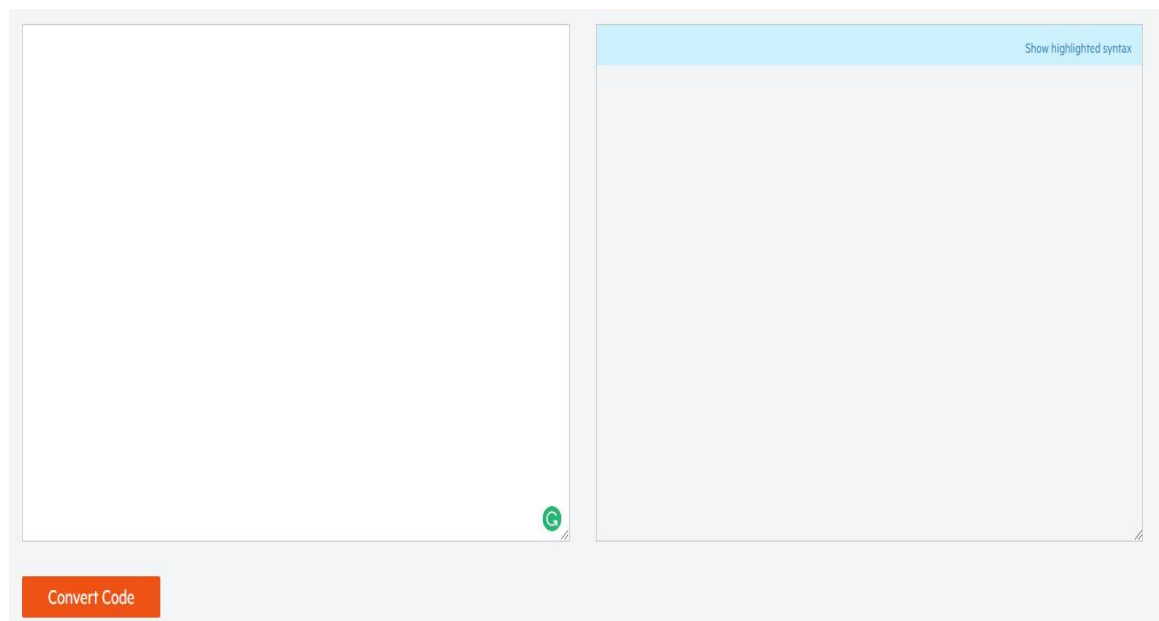


Figure 2.3: VB to C# Converter

### 2.3 Comparative Studies

Java to C# code, C# to Java code, VB.net to C# code, C# code to VB.net converters use compiler for checking input language but we did not use this type of compiler. Everyone can download converted source code in our code translator but can't download converted source code from others type of code converter.

Table 2.1: comparative studies table

<b>Code Translator</b>	<b>Existing Code converter</b>
Structure base program like C code convert to object oriented program like C#	Object oriented program like java code convert to another object oriented program like VB.net
It convert input language without checking input language validity	It convert input language to another language after checking input language validity
Anyone can download source code just click download button	Most of the field can't download source code

### 2.4 Scope of the Problem

If anyone input wrong C Code then our code translator does not checked this input code it directly convert this code to c#.

### 2.5 Challenges

When any developer wants to make anything different types of thinking, then the developer has always to face some different types of challenges, contest, competition and obstacles C is a structure based programming language but c# is a object oriented programming language. It was big challenges for us maintaining the code format.



## **CHAPTER 3**

### **REQUIREMENT SPECIFICATION**

#### **3.1 Business Process Modeling**

Actually business process modeling is a technique which is used for representing the process of a system. And the current process may be improved, analyzed and automated. In here we have defined our business model using the Data Flow Diagram. Data Flow Diagram describes how the data is processed in our system. In the following figure we draw a Data Flow Diagram for our system.

BPM requires the detailed analysis of each step as they occur and may be in written and graphic forms. Many BPM experts prefer specialized computer programs to help create, illustrate, and analyze the processes, though using a computer is not always necessary. Many times a sheet of paper and a pencil, a white-board, or a flip-chart can be used to graphically represent the process.

Figure 3.1 shows the Data flow diagram of the system. At first users complete their Registration in our side then they can login and find editor .Firstly they chose a language which they wants to be translate then they can write code in the editor . After writing their code they press Go button and find output in the output field .After translating they can download their translated code.

Our Business Process Model:

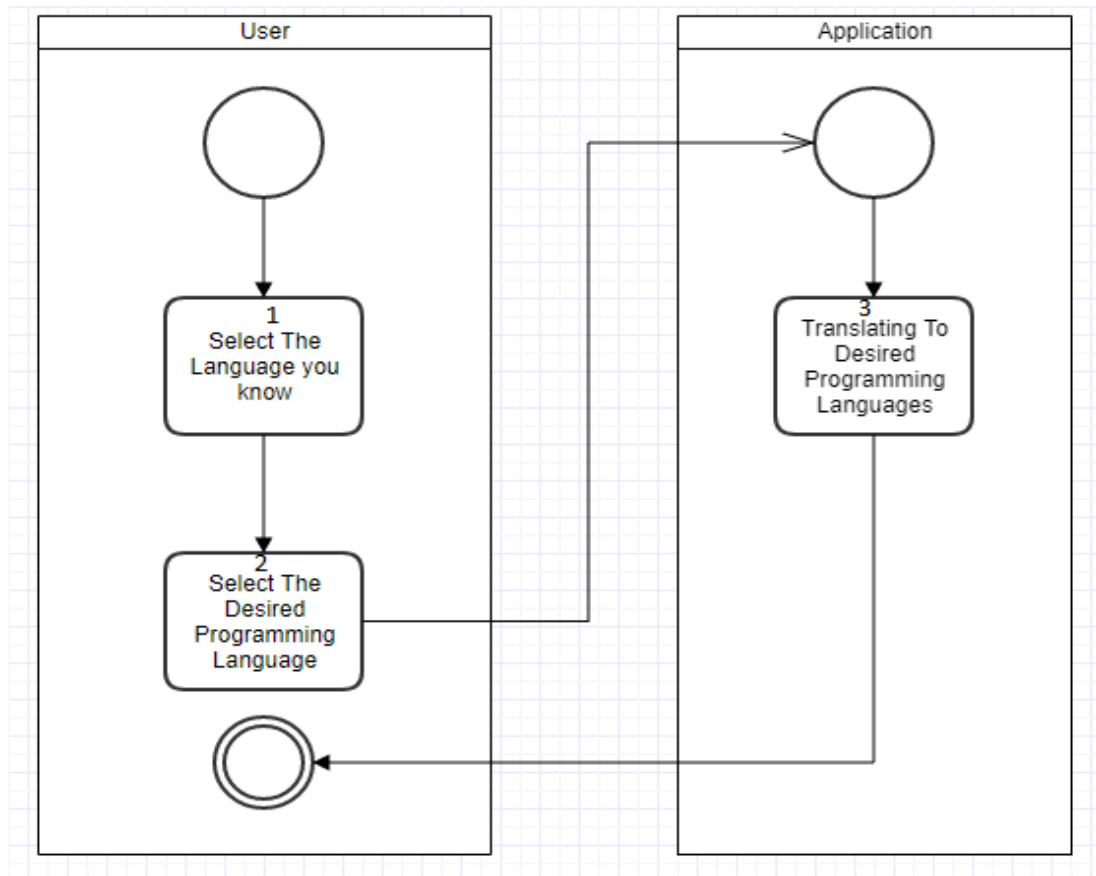


Figure: 3.1 Business Process Model

#### Waterfall Model:

The Waterfall model is the first process model in which we can see the linear sequential life cycle which is shown in Figure 3.2. is a sequential software development process, in which progress is seen as flowing to downwards and it is less iterative. By considering the phase of Conception, Initiation, Analysis, Design, Construction, Testing and Maintenance

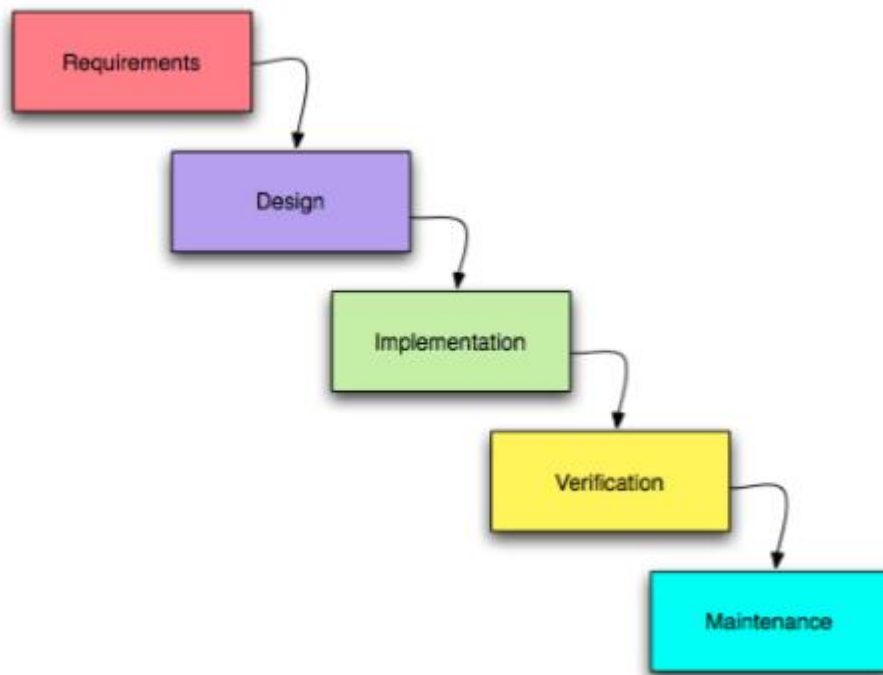


Figure 3.2: Waterfall Model

### 3.2 Requirement Collection and Analysis

Requirement collection and analysis is one of the very essential conditions for any application development process. The software requirements document should include:

**Purpose:** Our main objective is to save valuable time for c programmer, so that they can easily convert their c code into c# without object oriented programming knowledge.

**Scope:** Programmers can implement their code in his known programming language and convert this code into others programming language if its need .We think it is a big scope for programmers to implement their idea in any language for different purpose.

User Interface:

User interface is most important for every application. This is industrial design field of human-computer interaction. We make a user interface which is easy (self-explanatory), efficient, and enjoyable (user-friendly) to operate a machine in the way which produces the desired result.

Our application interface:

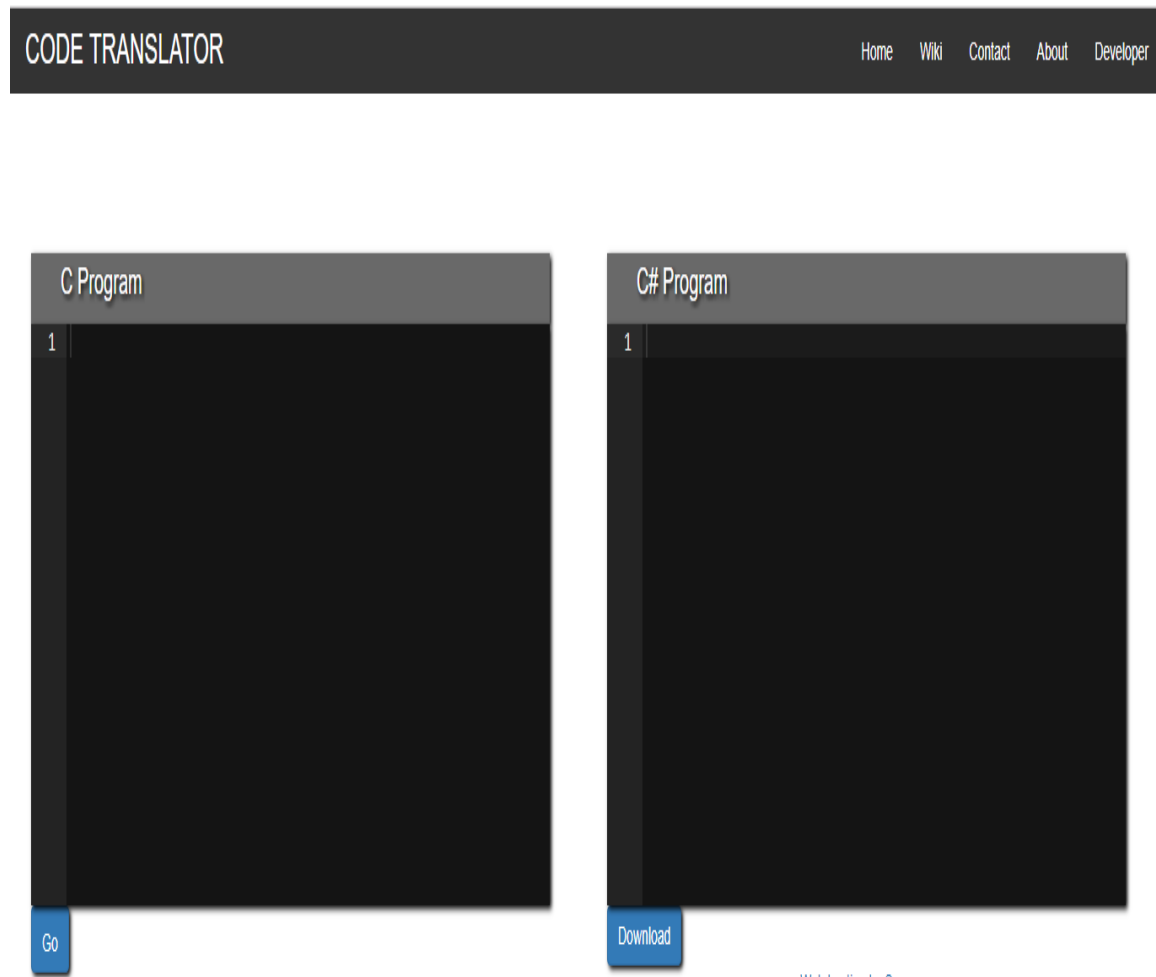


Figure 3.3: Our application interface

Limitation: Although this project is carefully prepared, we are still aware of its limitation and shortcomings. First of all, some program is not translated exactly. Second, some converter code lost its standard format. Like all the things in our world nothing is 100% perfect. Our application also has some limitation. We will try our best to reduce the limitation of our application in future version.

Some of the limitations are:

- User can give wrong input because our application cannot identify wrong input.
- Some program is not translated perfectly.

Verification: Now our verification System is poor .If anyone give wrong input in our system our system can't verify this code .We try to solve this problem.

### 3.3 Use Case Modeling and Description

Figure 3.4 shows the Use Case Modeling.

A use case has these characteristics:

- Use to organize functional requirements.
- Modeling the goals of the system/actor interactions.
- Record path from trigger event to go

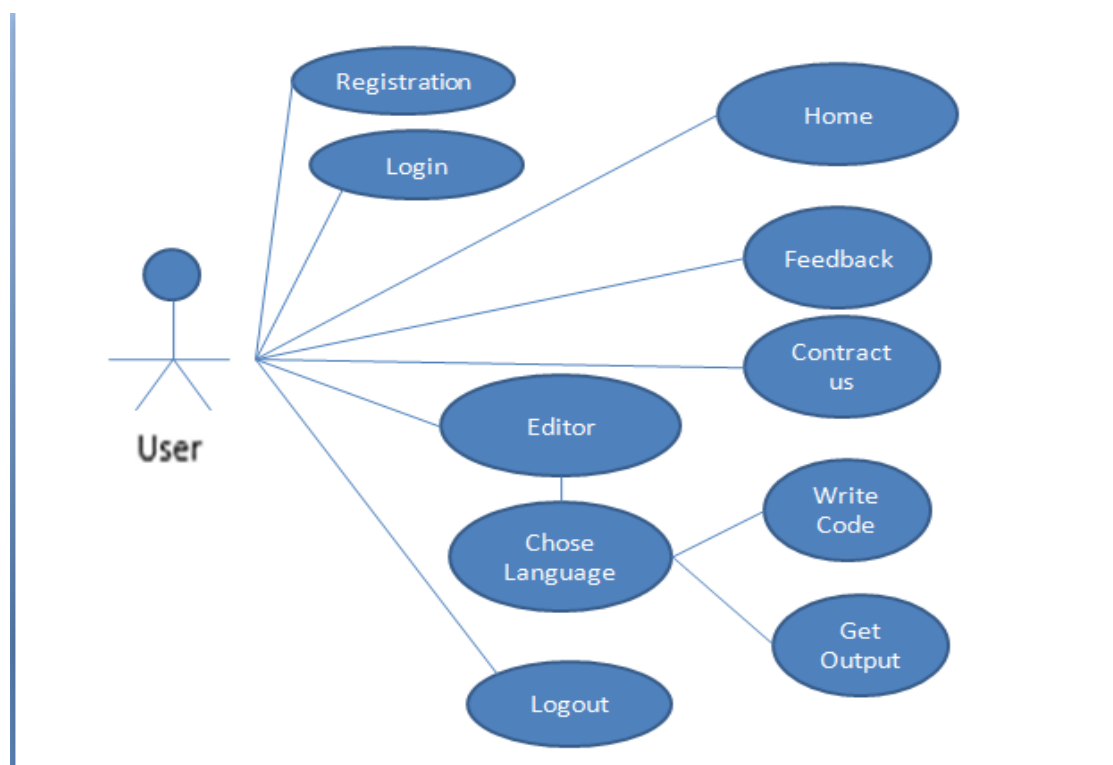


Figure 3.4: Use Case Model

Table 3.1: Use case description of Registration

Use Case #01	Registration
Primary Actor	User
Secondary Actor	Null
Pre-condition	Null
Scenario	<ul style="list-style-type: none"> <li>○ Enter valid full name</li> <li>○ Enter valid email address</li> <li>○ Enter password</li> </ul>
Post-condition	Registration successfully or failed

Table 3.2: Use case description of Login

Use Case #02	Login
Primary Actor	User
Secondary Actor	Null
Pre-condition	Registration
Scenario	<ul style="list-style-type: none"> <li>○ Enter valid email address</li> <li>○ Enter password</li> </ul>
Post-condition	Login successfully or failed

Table 3.3: Use case description of Home page

Use Case #03	Homepage
Primary Actor	User
Secondary Actor	Null
Pre-condition	Login
Scenario	<ul style="list-style-type: none"> <li>○ Access feedback</li> <li>○ Access contract</li> <li>○ Access editor</li> </ul>

Post-condition	Accessing successfully or failed
----------------	----------------------------------

Table 3.4: Use case description of Editor

Use Case #04	Editor
Primary Actor	User
Secondary Actor	Null
Pre-condition	Login
Scenario	<ul style="list-style-type: none"> <li>○ Write code</li> <li>○ Press go button</li> <li>○ Get output</li> <li>○ Download output code</li> </ul>
Post-condition	Work successfully or failed

### 3.4 Logical Data Model

Logical data model generally represents the structure of a domain of information. The logical model also reflects the semantics of the information context. As a database we use Microsoft SQL Server. Microsoft SQL Server is a relational database management system developed by Microsoft.

The structure of Microsoft SQL server:

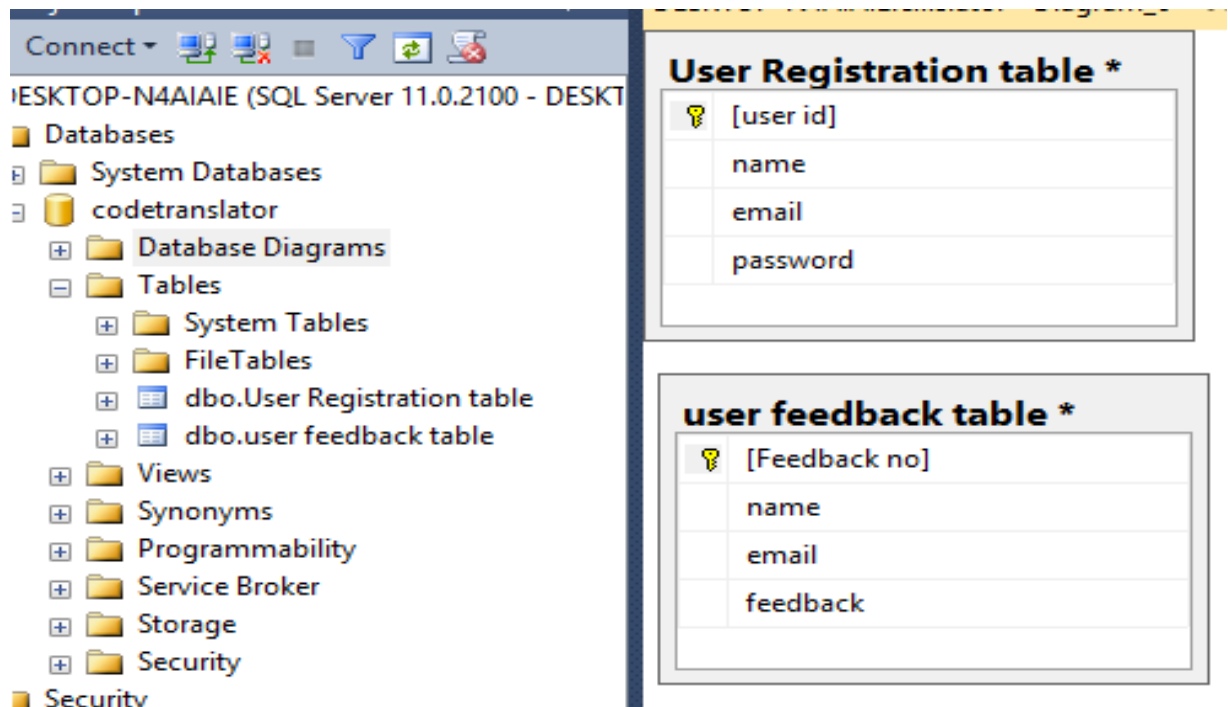


Figure 3.5: Logical Data Model

### 3.5 Design Requirement

The design requirement is the one of the most important part of an application which makes an application unique from any other existing application. In our application we mainly focused on better user experience and user friendly. We working on our own specific problem statement, system or user experience which we are designing. We also provide some new features by which the user can easily operate our system.

- In our application we design a registration section so that any user can be registered to our application with their information's.
- In our application we design a login section so that any user can login easily to our application using their email and password.
- In our application we design a feedback section so that any user can give feedback.
- In our application we design a contract section so that any user can contract with us.



- In our application we design an editor section so that any user can translate their program and download source code.

## CHAPTER 4

### DESIGN SPECIFICATION

#### 4.1 Front-end Design

As part of the development process, User Interface (UI) Design is also an essential in the creation of web application. The user is often the focus of interaction with their device, and the interface entails components of both hardware and software. User input allows for the user's to manipulate a system and output allows the system to indicate the effects of the user's manipulation.

In figure 4.1 it shows the home page of our web application

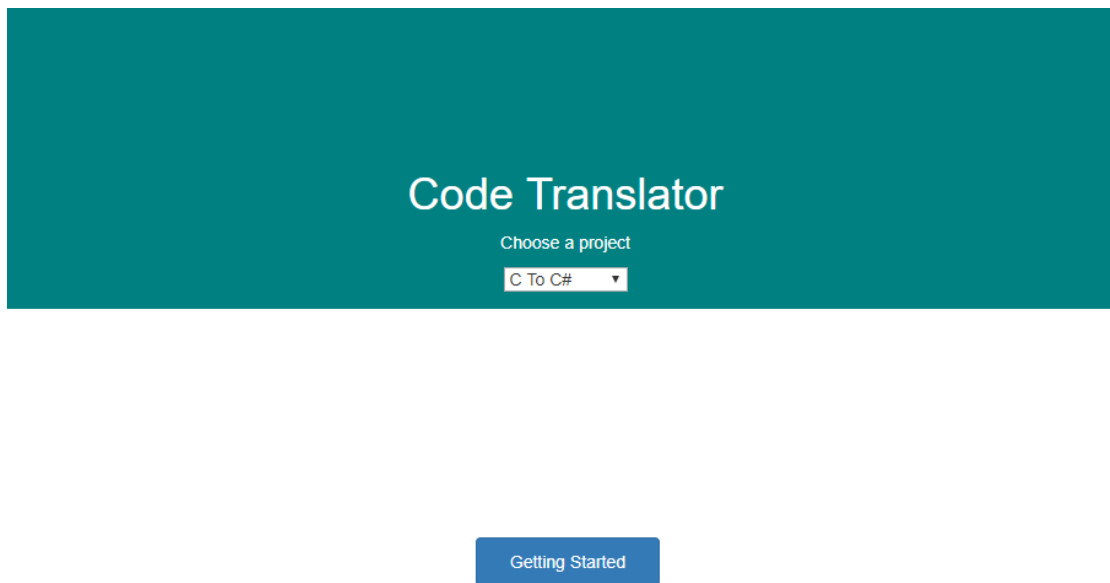


Figure 4.1: Home Page

In Figure, 4.2 show the registration page of our web application. If someone wants to use this web application, they need to register first by using their name, valid email address and password.



Figure 4.2: Registration Page

In Figure, 4.3 show our login window that contains two mandatory fields one is email and other is password.

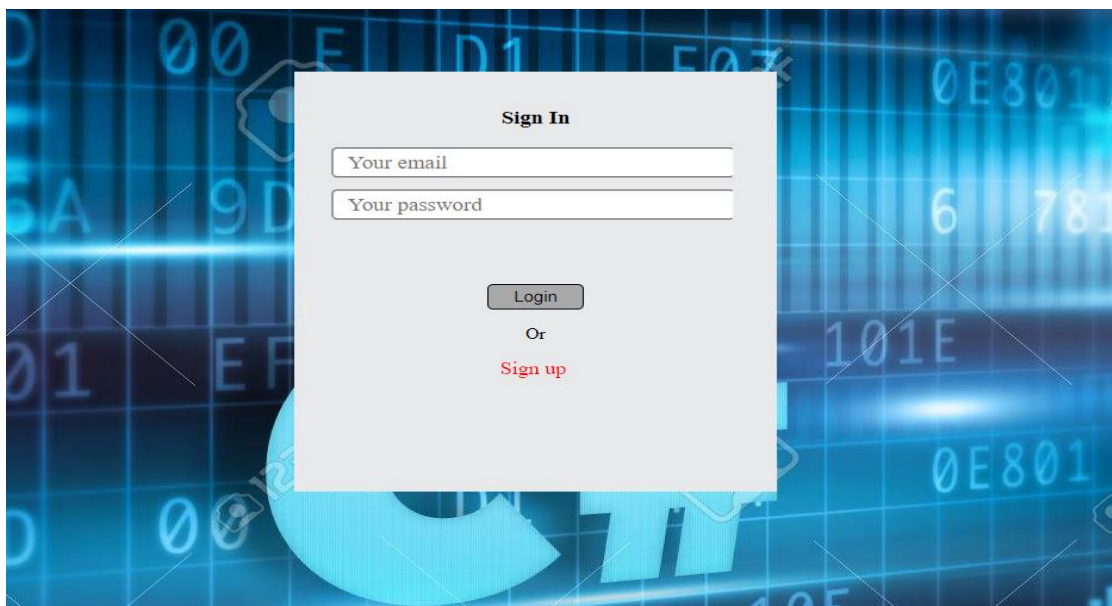


Figure 4.3: Login Page

In Figure, 4.4 show our Feedback page that contains three mandatory fields name, email and feedback message.

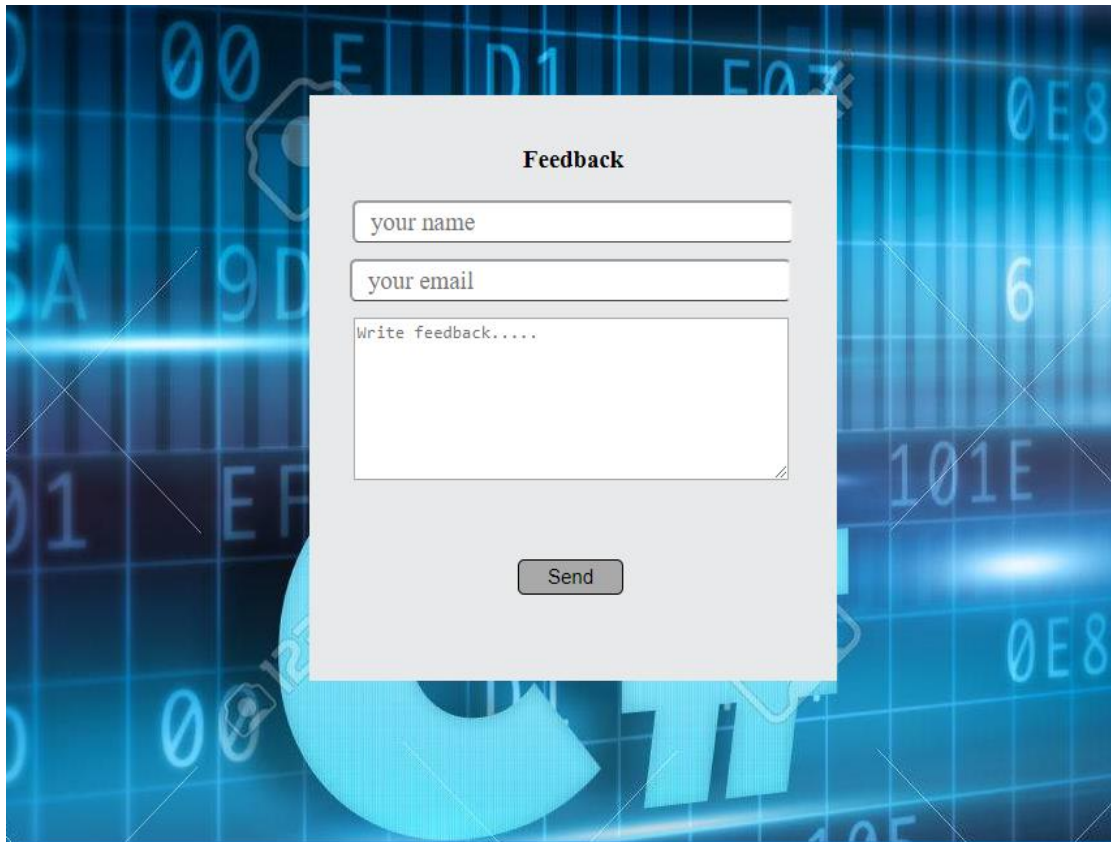
The image shows a web form titled "Feedback" centered on a blue background with a grid of hexadecimal characters. The form has a light gray border and contains three input fields: a text box labeled "your name", a text box labeled "your email", and a larger text area labeled "Write feedback.....". Below these fields is a "Send" button.

Figure 4.4: Feedback Page

In Figure, 4.5 show our Editor page. This page has two field one is C program field and another is C# field. User write C program in the C program field and press go button then they can get output in the C# program field and download source code.

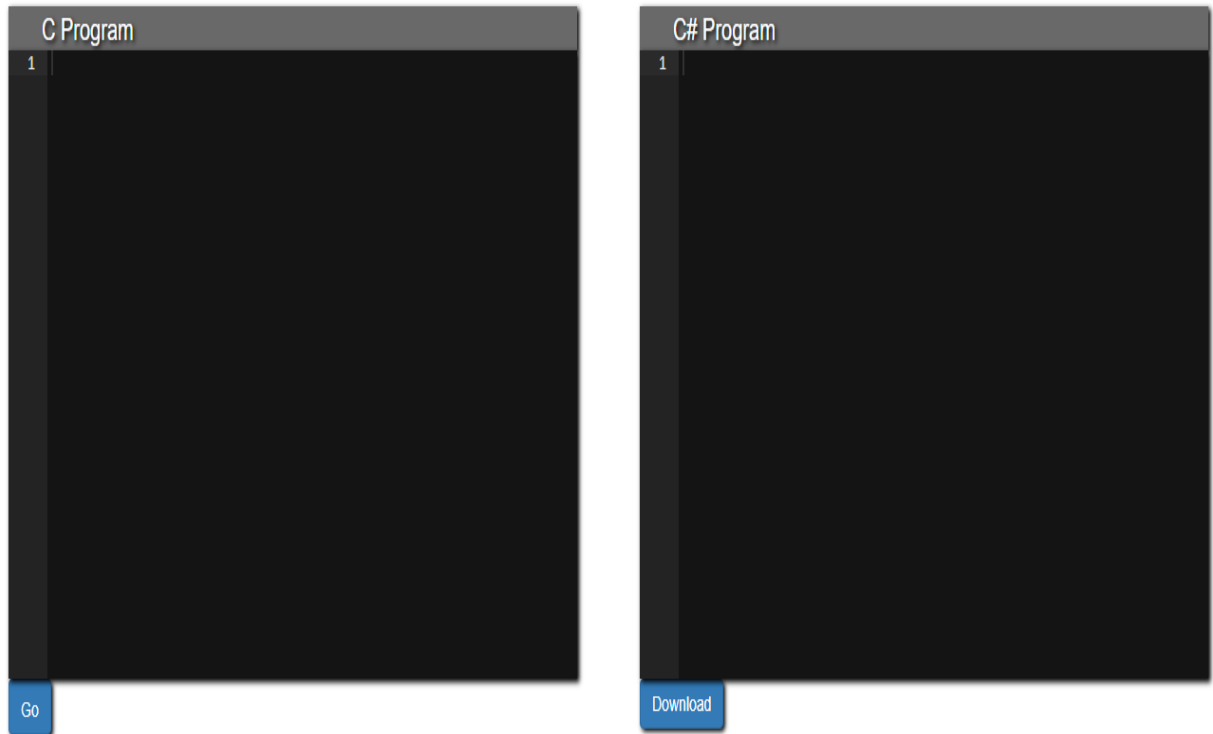


Figure 4.5: Editor Page


## 4.2 Back-end Design

The Back-end design is the part that working behind of the project. The user can't see or notifying or the back-end part. There is only one-way user can interact with the web application by front-in design. And the user cannot see the back-end design and how this part is working. In every application back-end does almost everything that happens on the server of the application. We tried to keep our back-end as simple as possible.

To developing and maintaining the back-end section we use Dot-Net framework, C# language and Microsoft SQL Server Database in our application. Dot-net framework gives us many facilities to develop our site. C# language has many building method like Replace, Remove, Contains, Join etc. Replace method generates a new string. So be sure to use the method only which it's really necessary. The contains method returns true if and only if this string contains the specified of char values.

Our application's database design as follows:

Figure 4.6 shows the user registration table in MS SQL Database. It contains the user data that are register into our web application.



The diagram shows a table titled "User Registration table \*". The table has four columns: a primary key column labeled "[user id]" with a key icon, and three other columns labeled "name", "email", and "password".

[user id]	name	email	password
-----------	------	-------	----------

Figure 4.6: User Registration Table

Figure 4.7 shows the user feedback table in MS SQL Database. It contains the user data that are register into our web application


user feedback table *	
	[Feedback no]
	name
	email
	feedback

Figure 4.7: User Feedback Table

### 4.3 Interaction Design and UX

Interaction design represents interaction between the user and the application. Interaction design considered the procedures such that the user issue space, processing the issues and discovering the outcomes. It also performs activities by the regarding outcomes about and take care of the issue in the application.

Actually in any application user experience mainly focuses on the overall experiences between the users and the application. In our application, most of all the features can interact with the user. We are mainly focusing the security of the application and there is an option where the user needs to register and logging in the application by using his/her verified information such like email and password.

In our application for UX we have tried to give our user some great experiences by adding some new features. For better performance and experience for the user, we tried to keep our application simple and easier to use.

#### **4.4 Implementation Requirements**

To implement a project, we need to use different type of tools and components those help us to developed a project successfully. So in our application development we also used some tools and components.

The following software, tools & frameworks were selected and use for accomplishing the project Back-end Design:

- ✓ Visual Studio IDE
- ✓ ASP.NET framework
- ✓ C# language
- ✓ SQL Database

The following software, tools & frameworks were selected and use for accomplishing the project front-end design:

- ✓ Visual Studio IDE
- ✓ HTML5
- ✓ CSS3
- ✓ BOOTSTRAP
- ✓ ASP
- ✓ JAVASCRIPT

#### **Visual Studio IDE**

This is an integrated development environment from Microsoft .It is use to develop computer program, Web sites, Web apps & Web Service. It uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silver light. It can produce



both native code and managed code. It supports 36 different languages. We use this IDE to develop our project.

## HTML5

HTML 5 is also mark-up language, which represent structures and contents of World Wide Web. This is another and the latest format of HTML having more qualities, features, tags etc. This made website to be created more attractive. This is made for users more comfortable on different browsers on different devices.

## CSS3

The first CSS specification has become an official W3C recommendation in December 1996. Some features of CSS are:

- ✓ Font properties such as typeface and emphasis, Color of text, background, and other elements.
- ✓ Text attributes such as spacing between words, letters and lines of text.
- ✓ Align of text, images, tables and other element.
- ✓ Margin, border, padding and positioning for most element.

CSS3 is the latest version of CSS specifications. But you cannot say directly that CSS3 is just a reference to new feature of CSS, it's a third level in progress in the CSS specification. There are more feature about CSS3 then CSS like additional sectors, drop shadows, rounded corners, and multiple backgrounds, animations, transparency and much more.

## BOOTSTRAP

In the earlier days of Twitter, engineers face too much difficulty to scale and maintain the individual applications. Because the used almost any library they were familiar with to meet front-end requirements. They were looking for it's solution to these challenges. Hence they quickly accelerated during Twitter's first Heckweek. By the

end of Heckweck, they had reached a stable version which engineers could use across the company.

Bootstrap has grown significantly to encompass basic styles, element and durable font-end design patterns with the help and feedback of many engineers. This release represents our first public 1.0 release and the open sourcing of many months of hard work.

Firstly, Bootstrap is very easy to implement like just dropping it in the code and go. Bootstrap usually works by providing a uniform solution to the most common, everyday interface tasks developers come across.

## ASP

It means active server page. It is a development framework for building web pages. It supports many different development models:

- ✓ Classic ASP.
- ✓ ASP.NET Web Forms.

## JAVASCRIPT

JavaScript is a high-level, interpreted programming language. This is a language which is also characterized as:

- ✓ Dynamic
- ✓ weakly typed,
- ✓ prototype-based
- ✓ multi-paradigm

## **CHAPTER 5**

### **IMPLEMENTATION AND TESTING**

#### **5.1 Implementation of Database**

In this project we use MS SQL Database .When a user complete his registration then his registration information is save in our database. We make a user registration table in our database .When a user try to login in our code translator then his login information is fully compare in our database user registration table if all information like email and password is match then he can login successfully but if any information find wrong then he/she can't login in our side. User can give feedback in our side. If anyone trying to give feedback then they have to fill up some mandatory field like email, name and feedback message. All information and user feedback is saving in our database. We make a user feedback table in our database.

#### **5.2 Implementation of Front-end Design**

How many user will use a system, is completely depend on the easy design and usability of the system. When a user opens our application, they will firstly see the front end design.

#### **5.3 Implementation of Interactions**

1<sup>st</sup> we develop the website name code translator for the user .In which they just have to input C language code in C program input field and press the go button then see the converted C# language code in the C# program output field .

2<sup>nd</sup> we add download option so that user can download this converted file.

```
C Program
1 #include <stdio.h>
2 int main()
3 {
4     printf("Hello, World!");
5     return 0;
6 }
7

C# Program
1 using System;
2
3 namespace Hello {
4     class Hello {
5         public static void Main(String[] args)
6         {
7
8             Console.WriteLine("Hello, World!");
9         }
10    }
11 }
12 }}
13 |

Go Download
```

Figure 5.1: Implementation of Interactions

Then we add some new feature such as contract system, feedback system, some code in testing purpose and learning purpose in the test, we add this feature for beginner user so that they can learn very easy way.

#### 5.4 Testing Implementation

Testing implementation is process of testing the implementation of a system, where tester or system architect will see various cases and specification, is it implementable or it has limitations. Provided all the pre-requisite instructions and test procedures for implementing our 'code translator'. An illustration will give an idea how we implemented this test procedure .we asked one of our surveyed student to go our web-address and write a program in C language then translate it into C# language by pressing only "Go" button. We created a delegate for the Surveyed students to get help in the testing procedure, if they faced any trouble by that time.

Table 5.1: Testing Implementation

<b>Test Case</b>	<b>Test Input</b>	<b>Expected Output</b>	<b>Actual Output</b>	<b>Result</b>	<b>Tested On</b>
1. Search application in web	http://codetranslator.somee.com/Default.aspx	Successfully find this web application	Successfully find this web application	Passed	10/3/2018
2. Registration	Without Registration	Restrict access to the features	Imposed the Restriction.	Passed	10/3/2018
3. Email or Password	Blank or incorrect email or password	Showing a Warning that correct email or password must be entered.	Showed the warning.	Passed	10/3/2018
4. Password	Blank or incorrect password	Showing a warning that correct password must be entered	Showed the warning.	Passed	10/3/2018
5. Login	Incorrect email and password	Showing a warning that correct email and password must be entered	Showed the warning.	Passed	10/3/2018

6. Homepage	Click on the login and provide email and password	To show the Homepage.	Showed the homepage	Passed	10/3/2018
7. Contract us	Click on the Contract option	Show the Contract page	Contract page has been shown	Passed	10/3/2018
8. Feedback us	Click on the Feedback option	Show the Feedback page	Feedback page has been shown	Passed	10/3/2018
9. User input	User write code in the editor C program field	Take user input successfully	Taken input	Passed	10/3/2018
10. Output	Press Go button	User get output in the editor C# program field	Get output	Passed	10/3/2018
11. Download source code	Press Download button	User can download source code	User get source code	Passed	10/3/2018
12. Sign out	Click on the Sign out button	To logout from that account.	Logged out Successfully	Passed	10/3/2018

### 5.5 Test Results and Reports

We already tested this translator to check the performance of this Translator. We became happy seeing that our translator worked almost 98% percent accurately.

Moreover, we provided our translator among more than 200 students who are studying in computer science and engineering at Daffodil International University.

Test Report represents the result of the test in a formal way. Report contains the data which we evaluated in a professional and organized manner. Report describe the operating condition and shows the test result with test objective.

By seeing the report we can estimate if the system is ready for Publish or not. There are several types of testing.

- Localization
- Disaster recovery
- Scalability
- Usability
- System interoperability
- Functionality
- Regression
- Security
- Performance

## CHAPTER 6

### CONCLUSION AND FUTURE SCOPE

#### 6.1 Discussion and Conclusion

When the project start we are thinking out the project is very hard for us. But day by day it became easier for us, the motivation came from one quote that is “Do something today that your future self will thank you for”. Although this web app contains only covert c to c# .no one can tell its future .Charles Babbage consider as “father of the computer” through he did not invent the computer but he provided a theory about computer. Eventually, his theory is used for inventing computer .We guess those days are not far away when this web app will be worked as the bridge for the mass people and many new inventions can be done from here. We learned lot of things from our project and became more patience when developing a new creative software project and it creates more opportunity for further development.

#### 6.2 Scope for Further Developments

As this code translator translates only C language to C# language so it has many scope for further developments. One day this code translator will convert any language to others language such as C# to C language ,Java to C language ,C language to Java ,C# to Java, Java to C# ,VB to C language ,C language to VB ,Java to VB,VB to Java etc .Now we don't use any compiler in this code translator to check C language code but it is need to check C language code because user can give wrong input then our code translator does not work perfectly .For now we are using free domain hosting to host our web application name somme.com .Somee.com provide us free asp.net hosting .But it has some problem sometimes it occurs some problem .In future we solve this problem.



## REFERENCES

To complete the project, we need to study from lots of websites. Some of them are given below-

[1] “Convert Code” Internet: <http://converter.telerik.com> [Last accessed: April, 07, 2018]

[2] “Code Translator” Internet: <https://www.carlosag.net/tools/codetranslator> [Last accessed: April, 07, 2018]

[3] “Code Converter” Internet: <https://www.mindfusion.eu/convert-cs-vb.html> [Last accessed: April, 07, 2018]

[4] “Tangible Software Solution” Internet: <https://www.tangiblesoftware.com> [Last accessed: April, 07, 2018]

[5] “Visual Studio” Internet: <https://www.visualstudio.com> [Last accessed: April, 07, 2018]

[6] “Waterfall Model” Internet: [https://en.wikipedia.org/wiki/Waterfall\\_model](https://en.wikipedia.org/wiki/Waterfall_model) [Last accessed: April, 07, 2018]

[7] “HTML5” Internet: <https://en.wikipedia.org/wiki/HTML5> [Last accessed: April, 07, 2018]

[8] “CSS3” Internet: [https://en.wikipedia.org/wiki/Cascading\\_Style\\_Sheets#CSS\\_3](https://en.wikipedia.org/wiki/Cascading_Style_Sheets#CSS_3) [Last accessed: April, 07, 2018]

[9] “ASP.NET” Internet: [https://en.wikipedia.org/wiki/ASP.NET\\_framework](https://en.wikipedia.org/wiki/ASP.NET_framework) [Last accessed: April, 07, 2018]

[10] “BOOTSTRAP” Internet: <https://getbootstrap.com> [Last accessed: April, 07, 2018]

[11] “JavaScript” Internet: <https://www.javascript.com> [Last accessed: April, 07, 2018]

[12] “Business Process Modeling” Internet: [https://en.wikipedia.org/wiki/Business\\_process\\_modeling](https://en.wikipedia.org/wiki/Business_process_modeling) [Last accessed: April, 07, 2018]

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