

## INSTRUCTION:

### Required software:

- Visual Studio 2017/2019
- MS SQL Server
- GIT

### To Download:

1. Install Git, Visual Studio and MS SQL Server.
2. Go to <https://github.com/Aljamil1113/ABC-123>
3. Open the git. Go to your preferred directory.
4. Then type 'git clone <https://github.com/Aljamil1113/ABC-123>'



```
MINGW64:/c/Users/Al Jamil/Desktop

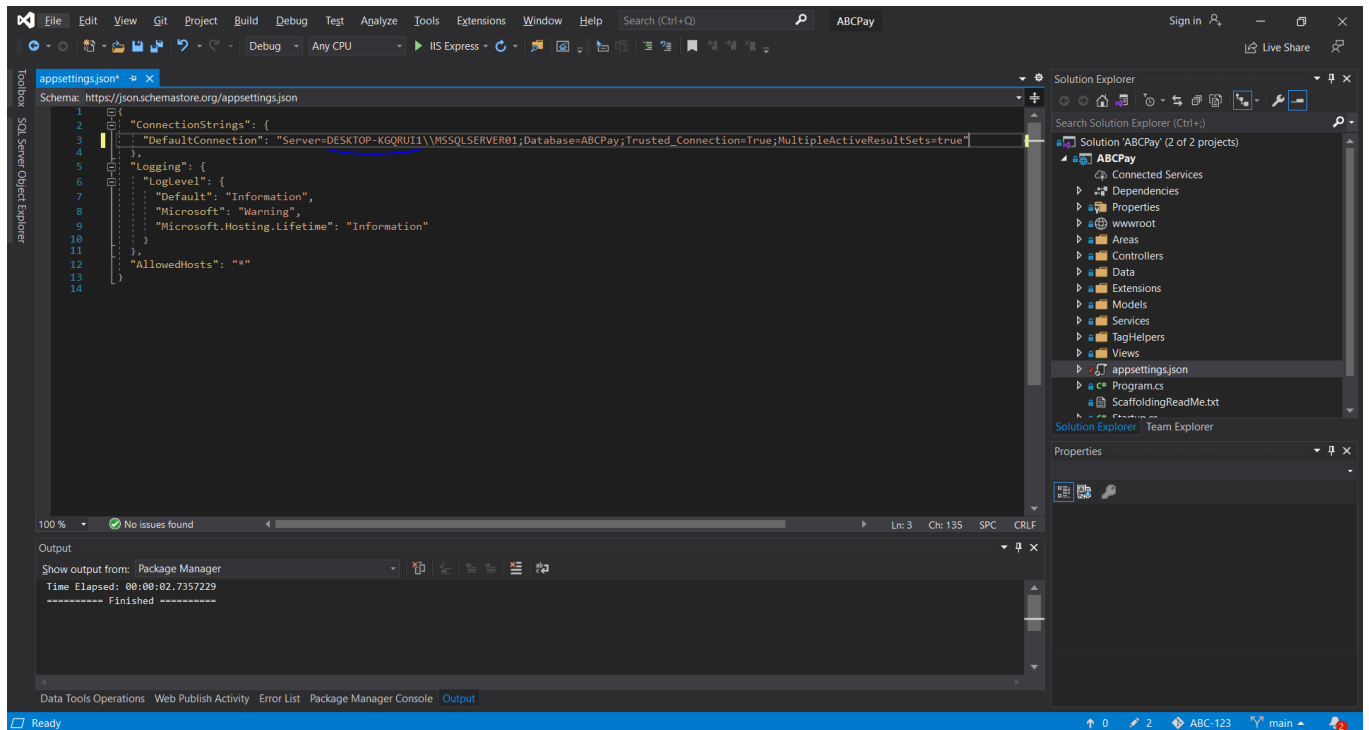
Al Jamil@DESKTOP-KGQRUI1 MINGW64 ~
$ cd Desktop

Al Jamil@DESKTOP-KGQRUI1 MINGW64 ~/Desktop
$ git clone https://github.com/Aljamil1113/ABC-123
Cloning into 'ABC-123'...
remote: Enumerating objects: 601, done.
remote: Counting objects: 100% (601/601), done.
remote: Compressing objects: 100% (341/341), done.
remote: Total 601 (delta 262), reused 552 (delta 217), pack-reused 0
Receiving objects: 100% (601/601), 1.77 MiB | 162.00 KiB/s, done.
Resolving deltas: 100% (262/262), done.

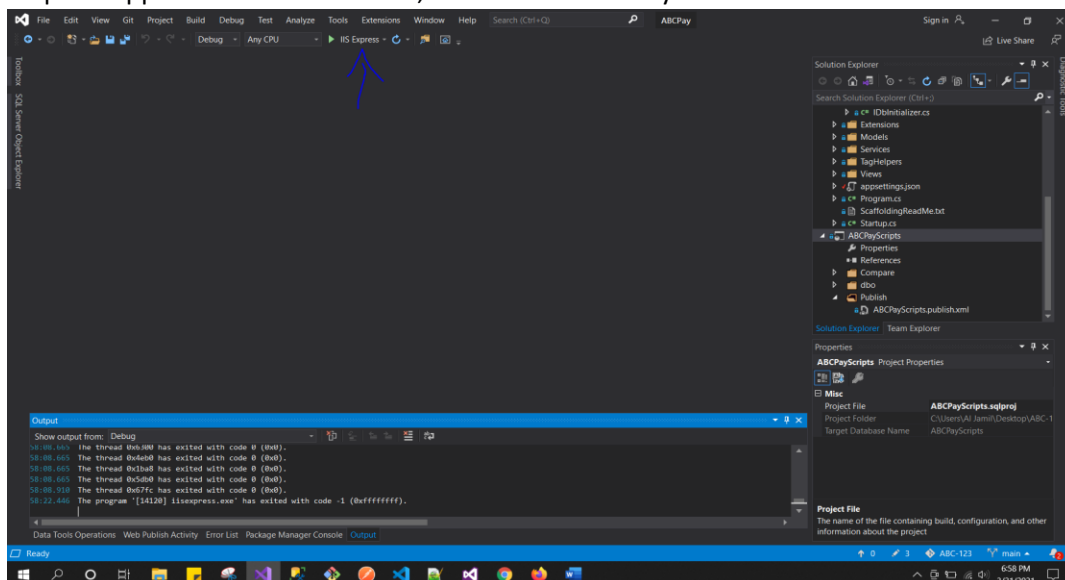
Al Jamil@DESKTOP-KGQRUI1 MINGW64 ~/Desktop
$ |
```

## TO TEST ABC Client Portal

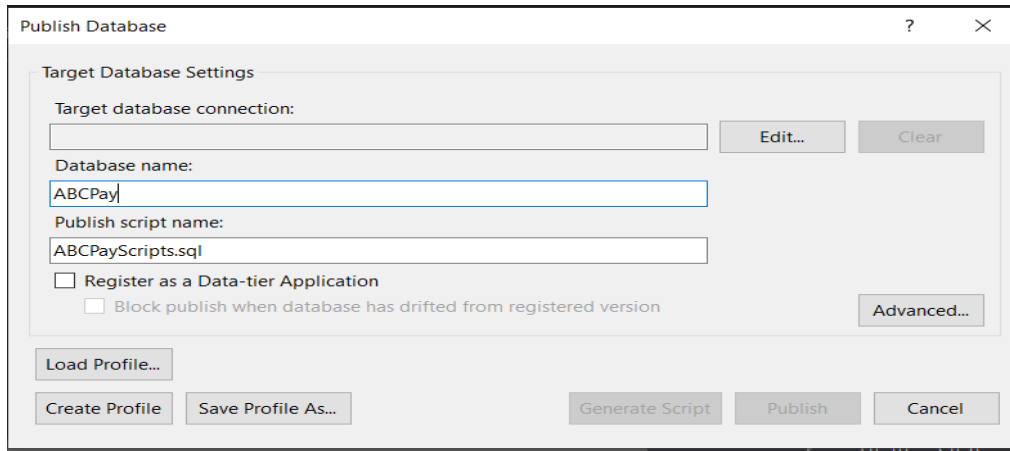
1. Open the ABC-123 folder then open the ABCPay folder. Then double click the ABCPay(Microsoft Visual Studio Solution) file.
2. You can see now the project files in Visual Studio. You can see two projects. The ABCPay MVC project and ABCPayScripts SQL Server Data Tools project.
3. Open the “appsettings.json” in ABCPay project then configure the ConnectionStrings. You just need to change the your server name in MS SQL Server.



4. Then Build the solution. Go to Menu then Build>Build Solution. Then Run the Application then stop the application. When do this, it create the ABCPay database.

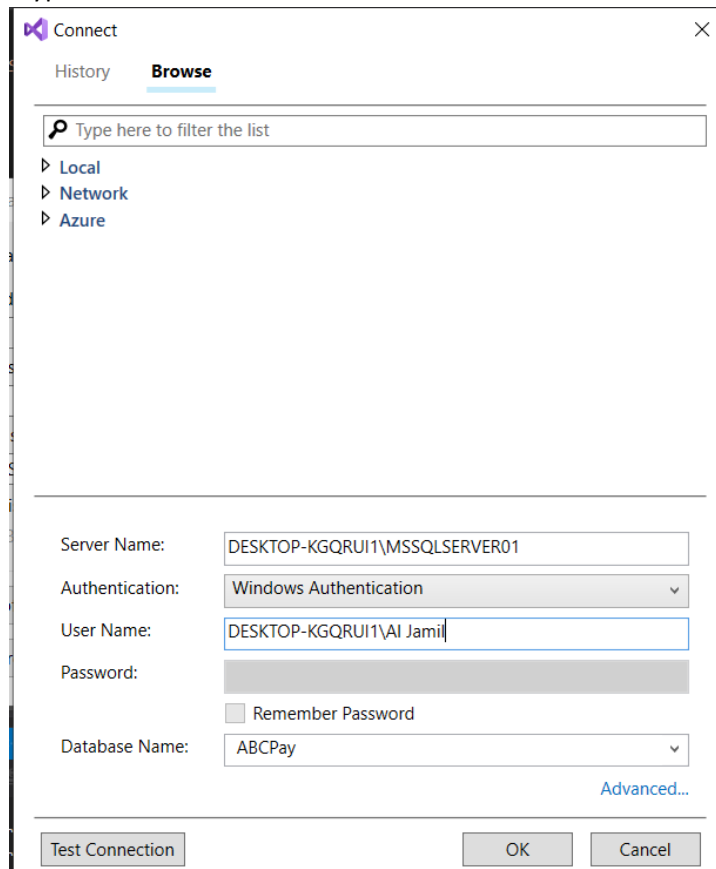


5. Go to ABCPayScripts Project. Click the ABCPayScripts project then Right Click then Choose Publish.
6. Type ABCPay to Database name.
7. Click the Edit button to select the database connection.



The 'Publish Database' dialog box is shown. It has a title bar with a question mark and a close button. The main section is titled 'Target Database Settings'. It contains a 'Target database connection:' label above a text box. To the right of this text box are 'Edit...' and 'Clear' buttons. Below this is a 'Database name:' label above a text box containing 'ABCPay'. Below that is a 'Publish script name:' label above a text box containing 'ABCPayScripts.sql'. There are two checkboxes: 'Register as a Data-tier Application' (unchecked) and 'Block publish when database has drifted from registered version' (unchecked). To the right of these checkboxes is an 'Advanced...' button. At the bottom of the dialog are five buttons: 'Load Profile...', 'Create Profile', 'Save Profile As...', 'Generate Script', and 'Publish', followed by a 'Cancel' button.

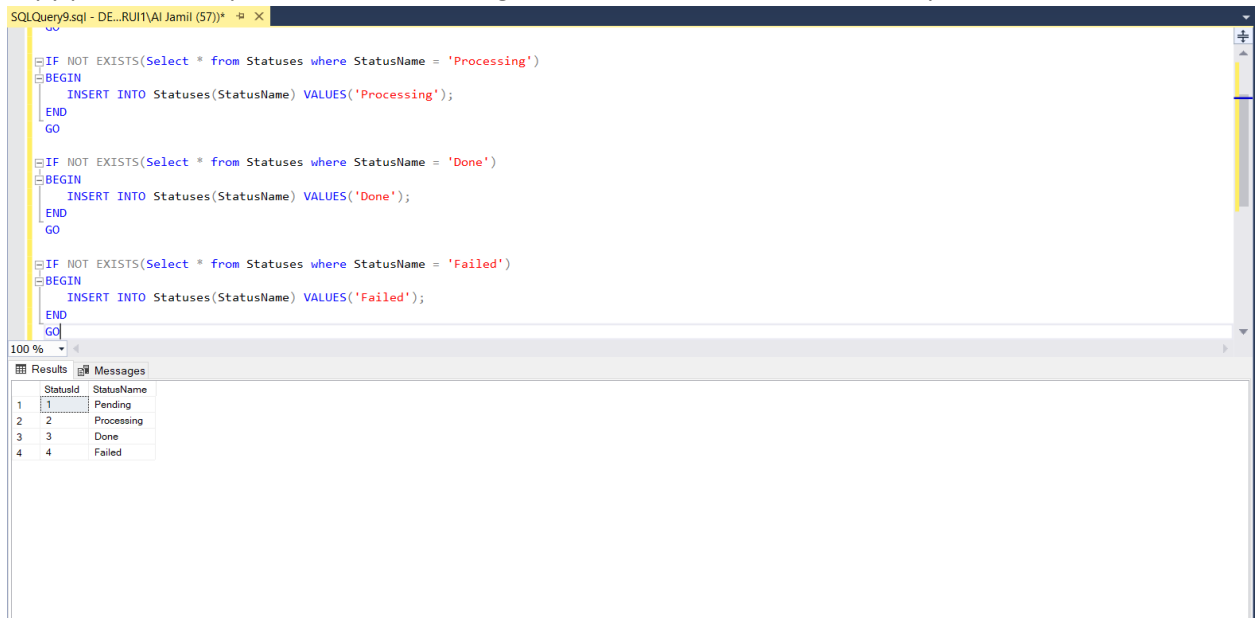
8. Go to Browse then type the Server Name and choose the Database name "ABCPay".



The 'Connect' dialog box is shown. It has a title bar with a question mark and a close button. The main section is titled 'Connect'. It has two tabs: 'History' and 'Browse'. The 'Browse' tab is selected. Below the tabs is a search bar with a magnifying glass icon and the text 'Type here to filter the list'. Below the search bar are three expandable sections: 'Local', 'Network', and 'Azure'. Below these sections are several input fields: 'Server Name:' with the text 'DESKTOP-KGQRUI1\MSSQLSERVER01', 'Authentication:' with a dropdown menu showing 'Windows Authentication', 'User Name:' with the text 'DESKTOP-KGQRUI1\Al Jamil', 'Password:' with a masked input field, and 'Database Name:' with a dropdown menu showing 'ABCPay'. There is a 'Remember Password' checkbox. To the right of the 'Database Name' dropdown is an 'Advanced...' button. At the bottom of the dialog are three buttons: 'Test Connection', 'OK', and 'Cancel'.

9. Then Click Ok. Then Click Publish. You need to do this to include the table view.

10. You need to seed data to Merchant and Status table. Go To ABCPayScripts>DML Folder. Then copy paste the script to SQL Server Management Studio then execute the scripts.



The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays a SQL script in the 'SQLQuery9.sql' file. The script uses IF NOT EXISTS checks to insert 'Processing', 'Done', and 'Failed' status names into the 'Statuses' table. The bottom pane shows the 'Results' tab with a table containing four rows of status data.

```
IF NOT EXISTS(Select * from Statuses where StatusName = 'Processing')
BEGIN
    INSERT INTO Statuses(StatusName) VALUES('Processing');
END
GO

IF NOT EXISTS(Select * from Statuses where StatusName = 'Done')
BEGIN
    INSERT INTO Statuses(StatusName) VALUES('Done');
END
GO

IF NOT EXISTS(Select * from Statuses where StatusName = 'Failed')
BEGIN
    INSERT INTO Statuses(StatusName) VALUES('Failed');
END
GO
```

StatusId	StatusName
1	Pending
2	Processing
3	Done
4	Failed

11. Go back to Visual Studio then go to Build>Rebuild the projects.
12. You can now run the application. Click the Play Icon to run the application.
13. Go to Login. You can use any of two user.
- Username: [admin@abc.com](mailto:admin@abc.com)  
Password: Admin123\*
- Username: [al@abc.com](mailto:al@abc.com)  
Password: Admin123\*
14. After Login, Go to Payment Request. Then you can upload one payment using “New Request Payment” or “Batch Request Payment”.
15. If you click “New Request Payment”, you just need to fill the form. Then Click save.

ABC PAYPayment Requests

Hello Arazas, Al JamillLogout

Payment Form

Merchant

Account Number

Account Name

Other Details

Amount

0.00

SaveCancel

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16. If you click “Batch Request Payment”, just upload the excel file. But you need to follow the template below. You can use the SeedPayments.xlsx inside this ABC-123 folder.

	A	B	C	D	E	F	G
1	Merchant ID	Account Number	Account Name	Other Details	Amount	Status ID	
2	1	1000000001	Mario Miguel	NONE	1500	1	
3	2	1000000002	Sarah Lahbati	NONE	4000	4	
4	2	1000000003	John Doe	NONE	500	4	
5	2	1000000004	Rizza Hubilla	NONE	230	3	
6	3	1000000005	Mary Rose	NONE	1240	3	
7	3	1000000006	Ben Simmon	NONE	670	3	
8	1	1000000007	Mario Miguel	NONE	450	2	
9	3	1000000008	Sarah Lahbati	NONE	900	2	
10	2	1000000009	John Doe	NONE	3000	2	
11	1	1000000010	Rizza Hubilla	NONE	650	2	
12	2	1000000011	Mary Rose	NONE	430	1	
13	2	1000000012	Ben Simmon	NONE	500	1	
14	2	1000000013	Mario Miguel	NONE	550	1	
15	1	1000000014	Sarah Lahbati	NONE	650	1	
16	3	1000000015	John Doe	NONE	1200	2	
17	3	1000000016	Rizza Hubilla	NONE	780	2	
18	2	1000000017	Mary Rose	NONE	420	2	
19	2	1000000018	Ben Simmon	NONE	100	2	
20	2	1000000019	Mario Miguel	NONE	300	1	
21	2	1000000020	Sarah Lahbati	NONE	450	1	
22							
23							

17. To perform Update you just need to click the reference number of a record. To Delete, click the delete button to remove a record.

ABC PAY

Payment Requests

Hello Admin, Admin! Logout

Request Payments

User: Admin, Admin

Balance: 10000.00

+ New Request Payment

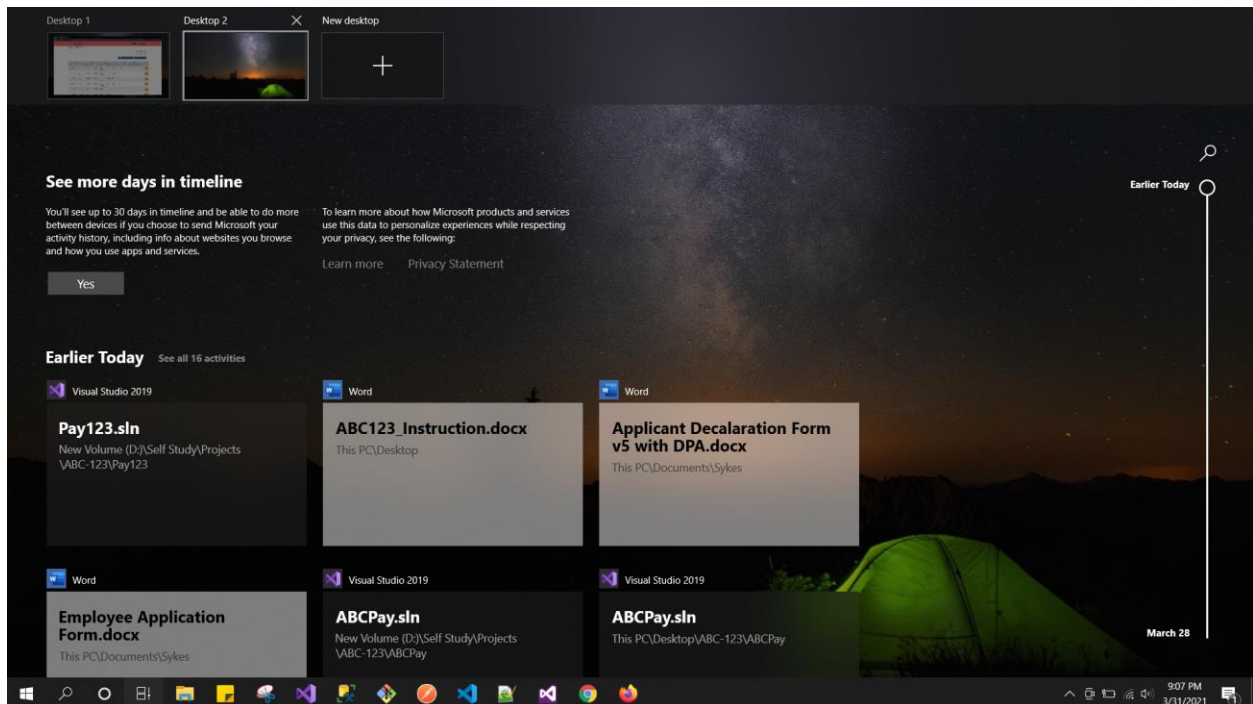
+ Batch Request Payment

Date	Reference Number	Merchant	Account Number	Account Name	Other Details	Amount	Status	Service Fee	Payment Remarks	Attachment
03/31/2021	9L428498	AT&T	1000000001	Mario Miguel	NONE	1500.00	Pending			
03/31/2021	6z38169	TELEPAY	1000000002	Sarah Lahbati	NONE	4000.00	Failed			
03/31/2021	20574e25	TELEPAY	1000000003	John Doe	NONE	500.00	Failed			
03/31/2021	675i3003	TELEPAY	1000000004	Rizza Hubilla	NONE	230.00	Done			
03/31/2021	2H611282	Netflix	1000000005	Mary Rose	NONE	1240.00	Done			

## To Test Payment 123 Desktop Application

1. Add another desktop to run the Payment 123 app. To do this, I used the task view and Add another desktop. To change desktop, I press control + window key + left arrow key and press control + window key + right arrow key.

Just check this link: <https://www.windowscentral.com/how-use-task-view-windows-10>



2. I run the ABC Client Portal App to Desktop 1. The Payment 123 App to Desktop 2.

- Go to ABC-123 folder then open Pay123 folder. Then double click the Pay123(Microsoft Visual Studio Solution) file.
- You can see two projects. The Pay123 Winform project and Pay123SqlScripts SQL Server Data Tools project.
- Click the Pay123SqlScripts project first. Then Right Click then click Publish to perform database creation.
- Click Edit to set your server name. Go to Browse tab then fill the Server name then click ok. Then Type the database name. I type "Payment123". Then publish.

**Publish Database**

**Target Database Settings**

Target database connection:  
 Data Source=DESKTOP-KGQRUI1\MSSQLSERVER01;Integrated Security=True Edit... Clear

Database name:  
 Payment123

Publish script name:  
 Pay123SqlScripts.sql

☐ Register as a Data-tier Application  
☐ Block publish when database has drifted from registered version Advanced...

Load Profile...

Create Profile Save Profile As... Generate Script Publish Cancel

- To Seed the Data of Users, Merchant and Status table, Open the DML folder in Pay123SqlScripts project. Then copy the scripts of MerchantDML.sql, StatusDML.sql and UserDML.sql.
- Open the Microsoft SQL Server Management Tools then, choose the Payment123 database. Add new query. Paste here the scripts to seed the data needed.

Object Explorer: DESKTOP-KGQRUI1\MSSQLSERVER01 (A) > Databases > Payment123

```

/***** Script for SelectTopRows command from SMS *****/
IF NOT EXISTS(Select * from Users where UserName = 'root' AND Password = 'root123*')
BEGIN
    INSERT INTO Users(UserName, Password) VALUES('root', 'root123*');
END
GO

IF NOT EXISTS(Select * from Users where UserName = 'admin' AND Password = 'Admin123*')
BEGIN
    INSERT INTO Users(UserName, Password) VALUES('admin', 'Admin123*');
END
GO
  
```

Messages

1 row affected

1 row affected

Completion time: 2021-03-01T21:02:13.074462+08:00

Query executed successfully.

DESKTOP-KGQRUI1\MSSQLSERVER... DESKTOP-KGQRUI1\Jam... Payment123 00:00:00 0 rows

9. After you seed the data, Go to Pay123 project. Open the App.Config then set your connection string.

```
<defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, EntityFramework">
  <parameters>
    <parameter value="mssqllocaldb" />
  </parameters>
</defaultConnectionFactory>
<providers>
  <provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer" />
</providers>
</entityFramework>
<connectionStrings>
  <add name="Pay123Db" connectionString="data source=DESKTOP-KGQRUI1;initial catalog=Payment123;integrated security=True;MultipleActiveResultSets=True" />
  <add name="Model1" connectionString="data source=DESKTOP-KGQRUI1;initial catalog=Payment123;integrated security=True;MultipleActiveResultSets=True" />
</connectionStrings>
<runtime>
  <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
    <dependentAssembly>
      <assemblyIdentity name="Newtonsoft.Json" publicKeyToken="30ad4fe6b2a6aeed" culture="neutral" />
      <bindingRedirect oldVersion="0.0.0.0-13.0.0.0" newVersion="13.0.0.0" />
    </dependentAssembly>
  </assemblyBinding>
</runtime>
</configuration>
```

10. Before to run the Pay123app. Right Click the packages.config then choose “Migrate packages.config to PackageReference”. Then click Ok.

11. Then run the Pay123 app. To Login, you can use

Username: admin

Password: Admin123\*

Or

Username: root

Password: root123\*

12. After login. Go to menu the click “Process Payments” to update the transactions. Choose one record the click “Show Details” button to edit the details.



Payment123MDI

File Process Payments Successful Payments Windows About

123 Payment

User: admin

Select a record here to process payments...

	Date	Reference #	Merchant	Client	Customer	Account Number
▶	3/31/2021 8:53 ...	9L428498	AT&T	ABC Pay	Admin Admin	1000000001
	3/31/2021 8:53 ...	16z38169	TELEPAY	ABC Pay	Admin Admin	1000000002
	3/31/2021 8:53 ...	20574e25	TELEPAY	ABC Pay	Admin Admin	1000000003
	3/31/2021 8:53 ...	679.3003	TELEPAY	ABC Pay	Admin Admin	1000000004
	3/31/2021 8:53 ...	2H611282	Netflix	ABC Pay	Admin Admin	1000000005
	3/31/2021 8:53 ...	716295W0	Netflix	ABC Pay	Admin Admin	1000000006
	3/31/2021 8:53 ...	286m7838	AT&T	ABC Pay	Admin Admin	1000000007
	3/31/2021 8:53 ...	7B666116	Netflix	ABC Pay	Admin Admin	1000000008
	3/31/2021 8:53 ...	326843Q5	TELEPAY	ABC Pay	Admin Admin	1000000009
	3/31/2021 8:53 ...	7970g673	AT&T	ABC Pay	Admin Admin	1000000010

<<< Page 1/2 >>>

Refresh Show Details

Payment Form

Payment Details

Merchant: AT&T

Amount: 1500.00

Date: March 31, 20

Service Fee: 75.00

Reference Number: 9L428498

Status: Processing

Client Name: ABC Pay

Other Details: NONE

Customer: Admin Admin

Account Number: 1000000001

Account Name: Mario Miguel

PP Remarks:

Attach File: C:\Users\AI Jami\Pic Browse

Save Cancel

13. If the process is done, the balance of user will also decrease.

ABC PAY

Payment Requests

Hello Admin, Admin! Logout

Request Payments

User: Admin, Admin  
Balance: 5075.50

+ New Request Payment

+ Batch Request Payment

Date	Reference Number	Merchant	Account Number	Account Name	Other Details	Amount	Status	Service Fee	Payment Remarks	Attachment
03/31/2021	286m7838	AT&T	1000000007	Mario Miguel	NONE	450.00	Processing			
03/31/2021	78666116	Netflix	1000000008	Sarah Lahbati	NONE	900.00	Processing			
03/31/2021	326843Q5	TELEPAY	1000000009	John Doe	NONE	3000.00	Processing			
03/31/2021	7970g673	AT&T	1000000010	Rizza Hubilla	NONE	650.00	Processing			
03/31/2021	36v20951	TELEPAY	1000000011	Mary Rose	NONE	430.00	Pending			

14. To Logout. Click File>Exit.