In this assignment you will create a web service that lets a merchant charge a credit card. It is important that you layer your application well. For the purpose of this test, we will assume only five credit cards with following details:

<table>
<thead>
<tr>
<th>Card Number</th>
<th>Credit</th>
<th>First Name</th>
<th>Last Name</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1111-1111-1111-0001</td>
<td>1000</td>
<td>John</td>
<td>Smith</td>
<td>1/1/2006</td>
</tr>
<tr>
<td>1111-1111-1111-0004</td>
<td>2000</td>
<td>Kate</td>
<td>Camel</td>
<td>8/1/2006</td>
</tr>
</tbody>
</table>

The web service will allow a merchant to either pre-approve a charge or simply charge. The web service looks like this when viewed in IE:

```java
static void Main(string[] args)
{
    try
    {
        CreditProcessService service = new CreditProcessService();
                        DateTime.Parse("1/1/2006"),
```

Each of the methods may throw an exception if the card information given is not valid or if the credit limit is less than the amount being charged or approved.
"Books", 100);

int approveCode =
                    DateTime.Parse("1/1/2006"), "Gasoline", 100);

service.ChargePreApproved(
    approveCode, 90);

approveCode =
                    DateTime.Parse("1/1/2006"), "Gasoline", 100);

service.ChargePreApproved(
    approveCode, 110);

try
{
    approveCode =
                        DateTime.Parse("1/1/2006"), "Stocks", 2000);
}
catch(Exception ex)
{
    Console.WriteLine("Error: " + ex.Message);
}

approveCode =
                    DateTime.Parse("1/1/2006"), "Stocks", 690);

service.ChargePreApproved(
    approveCode, 690);
    Console.WriteLine("OK");
}
catch(Exception ex)
{
    Console.WriteLine("Error: " + ex.Message);
}
}
A sample of output is shown below:

Error: Server was unable to process request. --> Unable to approve
OK

Please feel free to ask any questions. Note this is not a group project. Beware of academic honesty policy.