

Practical Test

The main goal of this test is provide an opportunity to the job applicant demonstrate his/her knowledge, developing an application in the .NET platform. For this, will be provided an empty web solution and a database created following the requirements.

The job applicant is free to choose the way and the technologies used to develop the requirements. The only rule is delivery a developed solution according to the requirements with Asp.Net MVC framework or Asp.Net Web Forms framework.

The solution should be delivered by email within 48 hours from receive. You must use Box.com (and send share link) to host your solution or GitHub. Along with the email with the solution should be listed all technologies that the applicant would like to highlight in the project.

Solution to be implemented

Customer contact management

A small business of sales is looking for a system to manage the customer contact. The system should show a login page every time a user try to access the site. In this page, the sellers should be identified using the email account of the company and his/her password in the system. After a successfully login, the sellers must see and search for some data and classification (VIP, Regular and Sporadic) of his/her clients and plan his/her future sales with the information. Currently, the company operates only in Porto Alegre, but in the future there is an expansion plan to other cities. For a better administration and system control, the company would like a user with full access to contacts of all sellers.

Acceptance Criteria:

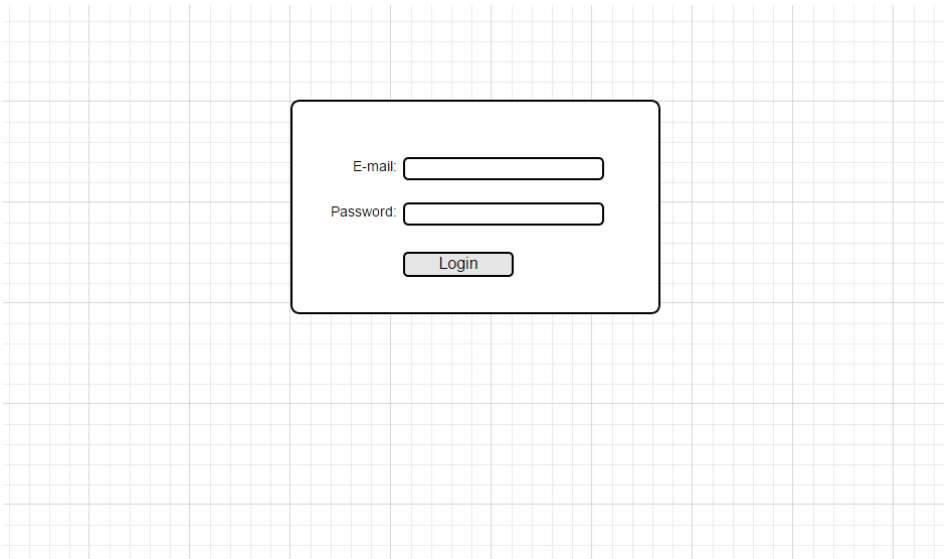
Login Page:

- The login page should be displayed whenever a user tries to access the system.
- The password must be encrypted using the md5 hash algorithm.
- If a user types a wrong e-mail and/or password, the system must show the message “The e-mail and/or password entered is invalid. Please try again.” and the fields should be displayed with a red border.
- When a user accesses the system successfully, the user should be redirected to page “Customer List”.

Initial users:

- E-mail: admin@sellseverything.com. Password: admin123.
- E-mail: seller1@sellseverything.com. Password: seller1123.
- E-mail: seller2@sellseverything.com. Password: seller2123.

Login Page



The login form is centered on a light gray grid background. It consists of a white rectangular box with a thin black border. Inside the box, there are two text input fields. The first field is labeled 'E-mail:' and the second is labeled 'Password:'. Below these fields is a 'Login' button with a gray background and black text.

Login - Merely illustrative

Customer List Page:

- The sellers should have access only to their clients.
- The clients are not shared between the sellers.
- The system must have an administrator user with total access to records of all customers in the system.
- For the sellers, the grid shall display the following columns: Classification, Name, Phone, Gender, City, Region and Last Purchase.
- For the administrator, the grid shall display the following columns: Classification, Name, Phone, Gender, City, Region, Last Purchase and Seller.
- When a user clicks on the header column of grid, the grid must be ordered alphabetically asc / desc.
- The user must have the option to clear the search fields.
- The filters are not mandatory.

Filters:

- **Name:** Text field to free typing. The user has the option to search by a name portion.
- **Gender:** The user should be able to select one or no option at a time.

- **City:** The user should be able to select one or no option at a time.
- **Region:** The user should be able to select one or no option at a time. If the City field is selected, the region data must be filtered by the selected city.
- **Last Purchase:** The user must have the option to search by a date range.
- **Classification:** The user should be able to select one or no option at a time.
- **Seller:** The user should be able to select one or no option at a time. This field must be visible only to administrator user.

Customer List – Seller's view

Name: Gender:

City: Region:

Last Purchase: until

Classification:

▼ Classification	▼ Name	▼ Phone	▼ Gender	▼ City	▼ Region	▼ Last Purchase
Col1	Col2	Col3	Col4	Col5	Col6	Col7
Col1	Col2	Col3	Col4	Col5	Col6	Col7
Col1	Col2	Col3	Col4	Col5	Col6	Col7
Col1	Col2	Col3	Col4	Col5	Col6	Col7
Col1	Col2	Col3	Col4	Col5	Col6	Col7
Col1	Col2	Col3	Col4	Col5	Col6	Col7

Customer List – Seller's view – Merely illustrative.

Customer List – Administrator’s View

Name: Gender:
 City: Region:
 Last Purchase: until
 Classification: Seller:

▼ Classification	▼ Name	▼ Phone	▼ Gender	▼ City	▼ Region	▼ Last Purchase	▼ Seller
Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8
Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8
Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8
Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8
Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8
Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8

Customer List – Administrator’s view – Merely illustrative.

Extras

There are some more items that can be developed by the applicant, these items are not required.

Suggestions:

- System user management
- Customer management.
- Register of cities and its regions.