

Technical Test

VERSION 1.1

FOR

Senior Developer Test

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1 Overview

This exercise has been designed to test your front and backend development skills. The results will help us evaluate your fit for the development role at Augen Software Group.

1.1 Timeframes

We expect this test to take anywhere from 5-8hrs depending on your skill level. As part of the exercise, you will need to give a summary breakdown of the time you have spent and any design decisions made.

1.2 Your work

We hope that you will do this test to the best of your ability without copying or referring to outside assistance. If you are unsure about task, feel free to email\skype the operations manager (operations.manager@augensoftwaregroup.com)

Alternatively, you can make assumptions if your implementation is slightly different from the functionality requested. Please ensure those assumptions are stated in your output.

2 Assignment

2.1 Goal

Your goal is to create a one-page web application that will list customers and have it searchable.

Customer data will be held in a CSV file which will need to be extracted by an API using .Net core.

You can choose to use HTML5 and/or a javascript framework of your choice for the front end and call the API to obtain customer data and have it presented in a user friendly manner.

2.2 Stack Requirements

- Plain Javascript (no Coffeescript, Typescript ...). ES6 with Babel is possible.
- Use the Microsoft Javascript framework service <https://github.com/aspnet/JavaScriptServices>
- If you choose to use a SPA framework then the possibilities are Vue, React or Angular with or without a State Management. It is a bonus if you could demonstrate how to use SPA state management though.
- .Net core for server side
- you can use CSS framework, CSS/HTML preprocessors of your choice
- GIT is required and we prefer to have smaller pushes because we cannot tell if it was your work if only one big push of everything i.e. no historical records of your work.

2.3 GIT / Output Requirement

1. Sign up to GitHub.com if you do not already have an account
2. **A template has been provided for you to use instead of creating your own.**
Follow the instructions on this GitHub repo:
<https://github.com/augensoftwaregroup/AspNetCoreSpaTemplate>
3. You must update the **WORKING.md** with:
 - a. Assumptions,
 - b. Additional tools or notes made on this exercise,
 - c. Design decisions should also be commented on,
 - d. Additional nice to haves or features that you might suggest but do not have time to complete.
4. The **WORKING.md** should also give a summary breakdown of the approximate time that you have spent developing the solution e.g.

Example: Time summary:

- Preparation: 1 hour
- Coding: 5 hours (including tests)
- Styling 30 minutes
- Building and testing 30 minutes

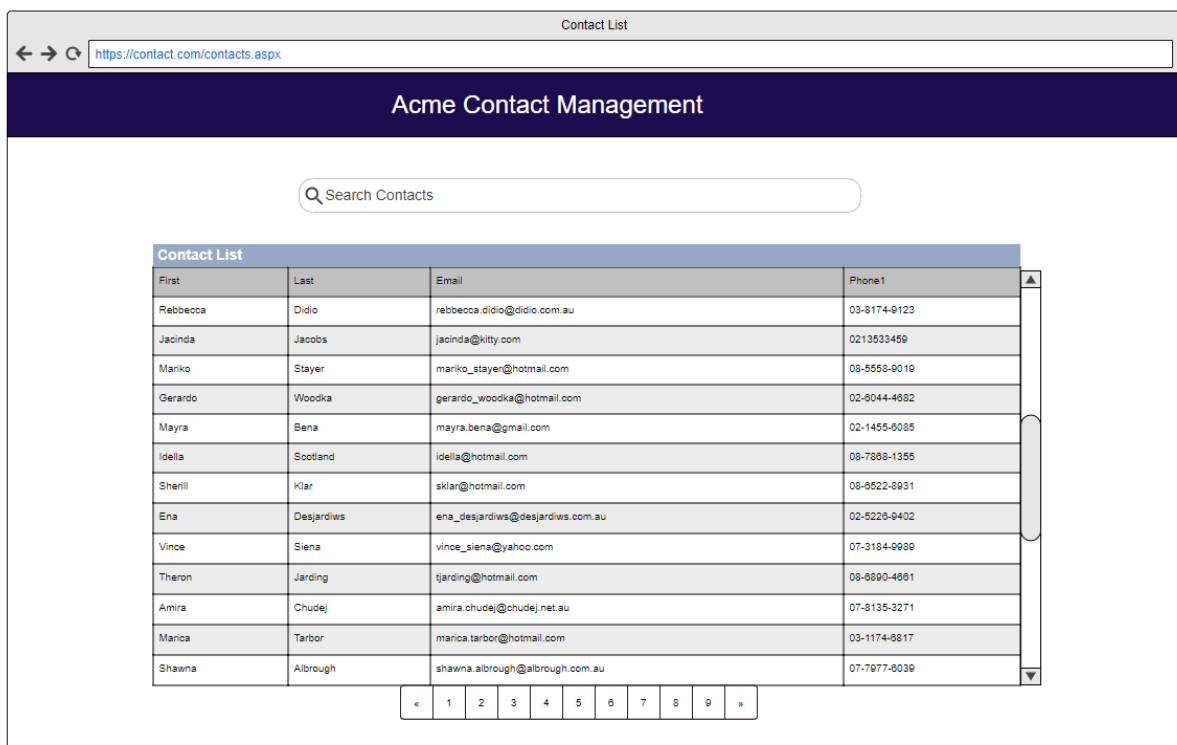
Grand total: 7 hours

3 Wireframe

3.1 Requirements

- **Customer list:** All customers from the CSV provided will be displayed with the following fields:
 - First_name
 - Last_name
 - Email
 - Phone1
- **Search:**
 - A main search field should be displayed. It will search against all of the above fields.
 - Results are displayed as filtered out list of clients and they will appear instantly as the user types.

The following mockup is an example of the screen design you could follow. **However, you are not limited to this, and could change the layout as long as it is user friendly.** We would actually expect for you to brighten it up – use your CSS skills to make it look modern/professional.




Search Contacts

First	Last	Email	Phone1
Rebecca	Didio	rebecca.didio@didio.com.au	03-8174-9123
Jacinda	Jacobs	jacinda@kitty.com	0213533459
Mariko	Stayer	mariko_stayer@hotmail.com	08-5558-9019
Gerardo	Woodka	gerardo_woodka@hotmail.com	02-9044-4882
Mayra	Bena	mayra.bena@gmail.com	02-1455-0085
Idella	Scotland	idella@hotmail.com	08-7868-1355
Sherill	Klar	sklar@hotmail.com	08-9522-8931
Ena	Desjardiws	ena_desjardiws@desjardiws.com.au	02-5226-9402
Vince	Siena	vince_siena@yahoo.com	07-3184-9699
Theron	Jarding	tjarding@hotmail.com	08-8890-4861
Amira	Chudej	amira.chudej@chudej.net.au	07-8135-3271
Marica	Tarbor	marica.tarbor@hotmail.com	03-1174-8817
Shawna	Albrough	shawna.albrough@albrough.com.au	07-7977-0039

« 1 2 3 4 5 6 7 8 9 »

4 Data

Your web api should read the “SampleData.CSV” file. This is located in the GIT repo, at the root of the .NET app code.

 hxhieu Simplified the process and add the sample CSV		Latest commit 09d8
..		
Controllers		Init commit
Properties		Replace Angular with Vue
app		Simplified the process and add the sample CSV
wwwroot		Init commit
AspnetCoreSPATemplate.csproj		Remove Razor Pages to avoid confusion
Program.cs		Init commit
SampleData.csv		Simplified the process and add the sample CSV
Startup.cs		Replace Vue with a generic app, so the candidates will need to swap o...
appsettings.Development.json		Init commit
appsettings.json		Init commit

5 Output Measurements

You will be measured on:

- GitHub page – written content about your solution
- The applications functionality – does it meet the requirements
- The applications look – does the UI look professional
- Your source codes – good structure, commenting, no code smells.
- Good design principles.

6 Checklist:

1. Source code checked in
2. Deployment\Build instructions written
3. Summary of assumptions, notes etc. in the “working.md” file.
4. Timeline summary
5. Send URL of your Github repo to operations.manager@augensoftwaregroup.com