HEARTLEAF BOUTIQUE

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HIGH LEVEL VIEW: E-COMMERCE APPLICATION





CART



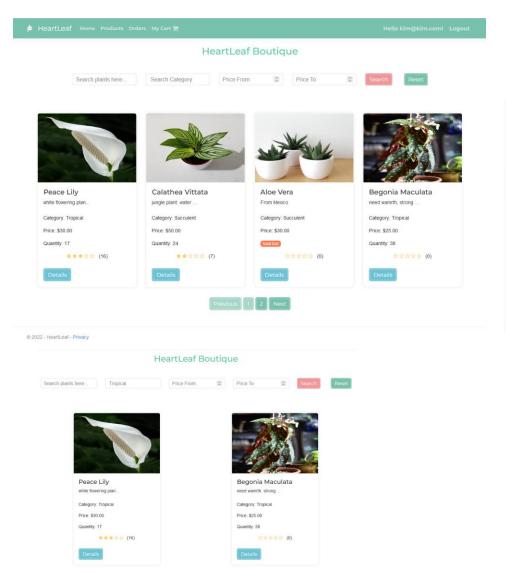




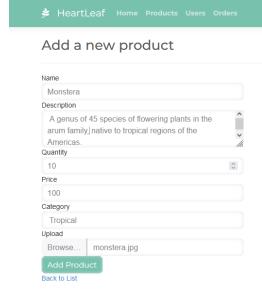


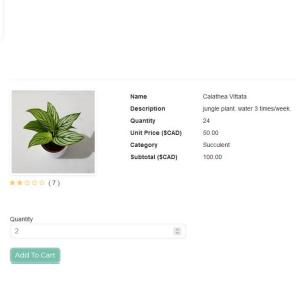


SOLUTION OVERVIEW – PRODUCTS



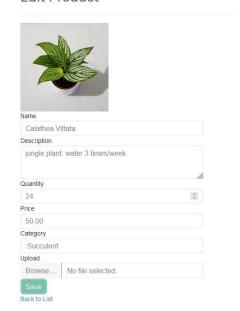








Edit Product





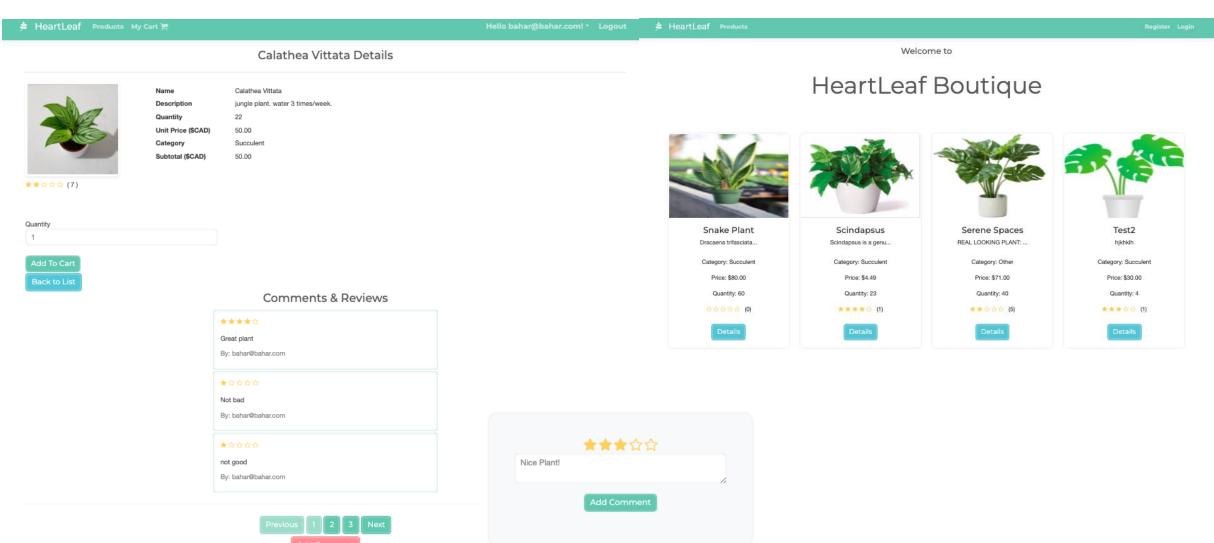


Begonia Maculata Description need wamrth, strong light Quantity 25.00 Price Tropical

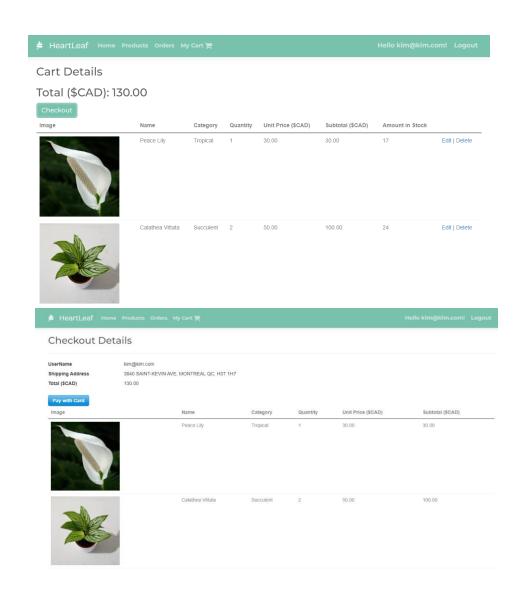
Delete | Back to List

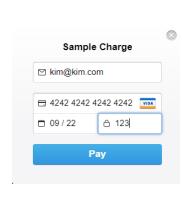
Category

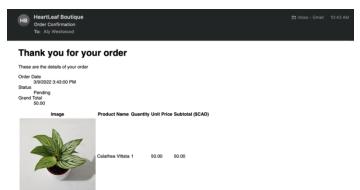
SOLUTION OVERVIEW - REVIEWS & COMMENT



SOLUTION OVERVIEW - CART/CHECKOUT/ORDERS











SOLUTION OVERVIEW



Hello admin@admin.com! ▼ Logout

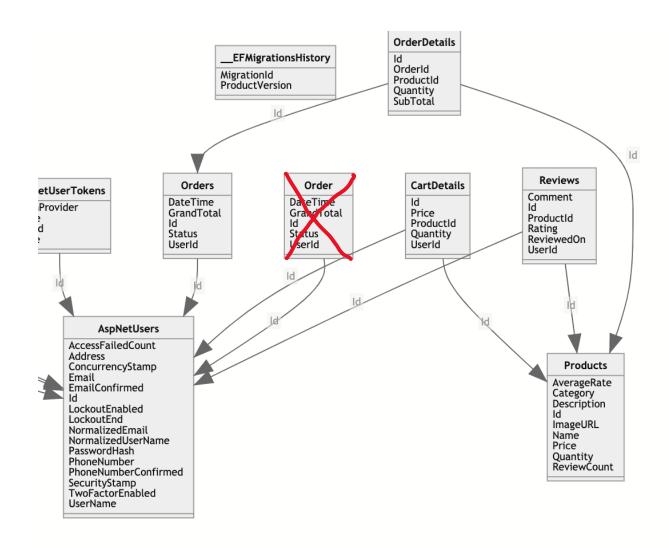
Manage Users

Create New

UserName	Email (confirmed)		Phone (confirmed)	Address	2FA		Lockout (ends)	Access Failed Count	
ADMIN@ADMIN.COM	ADMIN@ADMIN.COM	√		22-20 BAY ST FLOOR		1		0	E _i

Most relevant pages linked in nav bar.

DATABASE



- Database/Migrations: deleting tables / columns directly from the database messed up our migrations
- Solution: Delete the entire migrations folder and all database tables ©
- Future solution: remove migrations one by one using command dotnet ef migrations remove until the point where the problem table was created.
 - Do not delete migrations files, do not alter the database directly

CHALLENGES & SOLUTIONS- SECURE PASSWORD STORAGE

Challenge: Setting Admin Password in a

Secure way?

Solution:

Safe storage of app secrets in development

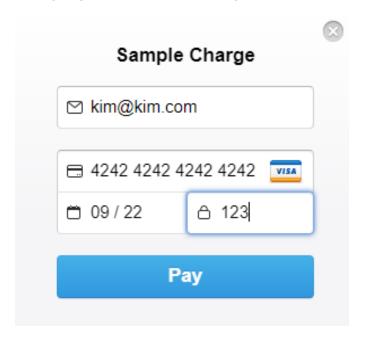
in ASP.NET Core through Command line

dotnet user-secrets set "AdminPassword" "SecurePass123456"

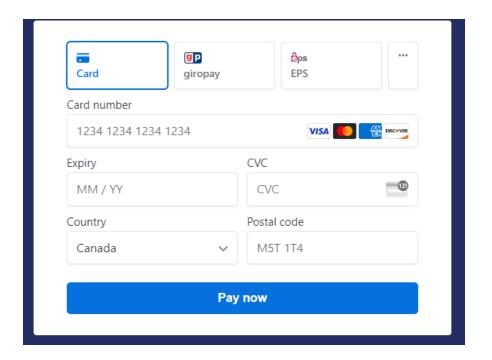
string adminPass = builder.Configuration["AdminPassword"];

CHALLENGES & SOLUTIONS - STRIPE API

Legacy version of Stripe



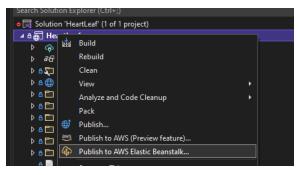
Current version of Stripe

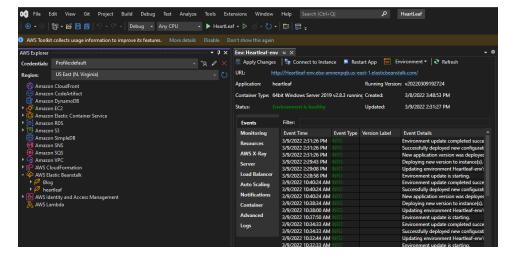


CHALLENGES & SOLUTIONS - DEPLOYMENT

- Deploying with AWS Elastic Beanstalk
- AWS Toolkit for Visual Studio







CHALLENGES & SOLUTIONS – AWS S3

Install AWS SDK packages

```
<PackageReference Include="AWSSDK.Extensions.NETCore.Setup" Version="3.7.1" />
<PackageReference Include="AWSSDK.S3" Version="3.7.8.3" />
```

Dependency injection

```
// Get the AWS profile information from configuration providers
AWSOptions awsOptions = builder.Configuration.GetAWSOptions();

// Configure AWS service clients to use these credentials
builder.Services.AddDefaultAWSOptions(awsOptions);

// These AWS service clients will be singleton by default
builder.Services.AddAWSService<IAmazonS3>();
```

Uploading a file

```
var putRequest = new PutObjectRequest()
{
    BucketName = "hearleafbucket",
    Key = Input.Upload.FileName,
    InputStream = Input.Upload.OpenReadStream(),
    ContentType = Input.Upload.ContentType
};

var result = await _s3Client.PutObjectAsync(putRequest);
```

SCAFFOLDING IDENTITY PAGES

- Razor uses a "dictionary" of identity pages
- Scaffolding gives us access to pages from the dictionary

List all files available:

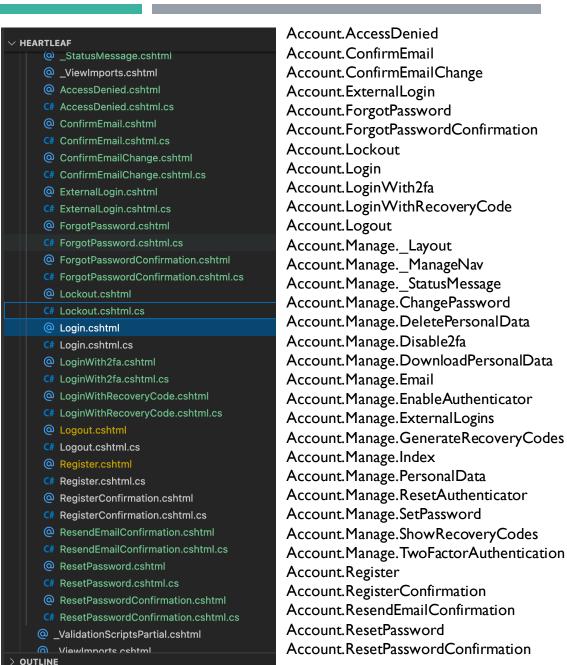
dotnet aspnet-codegenerator identity -dc MyApp.Data.AppDbContext --listFiles

Scaffold the files specified in the list:

dotnet aspnet-codegenerator identity -dc MyApp.Data.AppDbContext --files
"Account.ConfirmEmail; Account.ConfirmEmailChange"

Scaffold all files available:

dotnet aspnet-codegenerator identity -dc MyApp.Data.AppDbContext



```
{
    "address":"9 rue des test, QC J7C5X4"
}
```

```
"status": "success",
"message": "Address verification processed.",
"data": {
    "city": "BLAINVILLE",
    "country":"ca",
    "countryName": "CANADA",
     "errors":{
     "line I ": [
              "Incorrect Value: Street name"
     "line I": "9 RUE DES TEST",
     "postalOrZip": "J7C 5X4",
     "provinceOrState":"QC",
     "status": "failed"
```

```
using static HeartLeaf Services ConfigHelper;
namespace HeartLeaf.Services
    0 references
    public static class UserManagerExtensions
        2 references
       public static async Task<IdentityResult> SetAddressAsync(this UserManager<User> userManager, User user, string address)
            HttpClient client = new HttpClient();
                                                      var result = await _userManager.SetAddressAsync(UserToEdit, EditUser.Address);
            Address addr = new Address(address);
            JsonContent addrJson = JsonContent.Create(addr);
            client.DefaultRequestHeaders.Add("x-api-key", Config["PostGrid:APIKey"]);
```

Program.cs

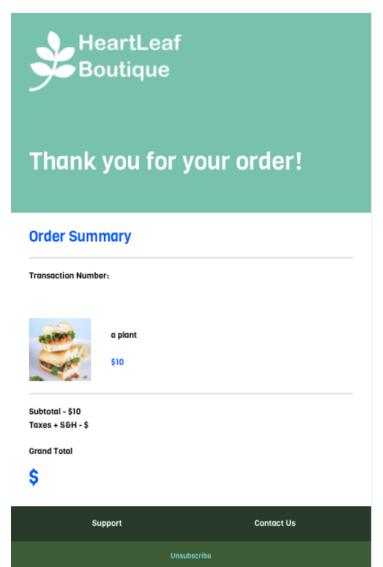
```
// allow configuration access to static classes
ConfigHelper.Config = builder.Configuration;
```

UserManagerExtensions.cs

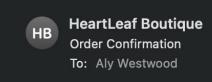
```
client.DefaultRequestHeaders.Add("x-api-key", Config["PostGrid:APIKey"]);
HttpResponseMessage response = await client.PostAsync(
    "https://api.postgrid.com/v1/addver/verifications", addrJson
);
```

SENDGRID EMAILS

EXPECTATIONS VS. REALITY



Template



Thank you for your order

These are the details of your order

Order Date

3/9/2022 3:43:00 PM

Status

Pending

Grand Total 50.00

Image

Product Name Quantity Unit Price Subtotal (\$CAD)



Calathea Vittata 1

50.00 50.00

Actual Email

Layouts

```
@inject Microsoft.AspNetCore.Http.IHttpContextAccessor Http
@{
    if (ViewData.TryGetValue("ParentLayout", out var parentLayout))
       Layout = (string)parentLayout;
    else
       Layout = "/Pages/Shared/_Layout.cshtml";
    bool isAdmin = (await userManager.IsInRoleAsync((await userManager.GetUserAsync(User)), "Admin"));
@if(isAdmin){
    <h1>Manage Users</h1>
        <h2>@ViewData["Title"]</h2>
            @RenderBody()
        </div>
    </div>
} else {
   IgnoreBody();
   Http.HttpContext.Response.Redirect("/Error");
    <div>Not Found</div>
@section Scripts {
    @RenderSection("Scripts", required: false)
```

HeartLeaf Boutique

Search plants here... Succulent

30

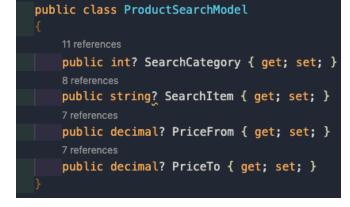


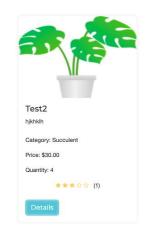




CHALLENGES & SOLUTIONS

- Search Based on multiple fields
- Using Search Model





HeartLeaf Boutique

Succulent 30

60

Search



public IQueryable<Product> GetProducts(ProductSearchModel searchModel)

```
if (!string.IsNullOrEmpty|searchModel.SearchItem))
    result = result.Where(x => x.Name.Contains|searchModel.SearchItem) || x.Description.Contains(searchModel.SearchItem));
if (searchModel.PriceFrom.HasValue)
    result = result.Where(x => x.Price >= searchModel.PriceFrom);
if (searchModel.PriceTo.HasValue)
    result = result.Where(x => x.Price <= searchModel.PriceTo);
if (searchModel.SearchCategory == 1 || searchModel.SearchCategory == 2 || searchModel.SearchCategory == 3 || searchModel.SearchCategory == 4)
    result = result.Where(x => (int)x.Category == searchModel.SearchCategory);
PaginatedProductList = await PaginatedList<Product>.CreateAsync(GetProducts(SearchModel).AsNoTracking(), pageIndex ?? 1, pageSize);
```

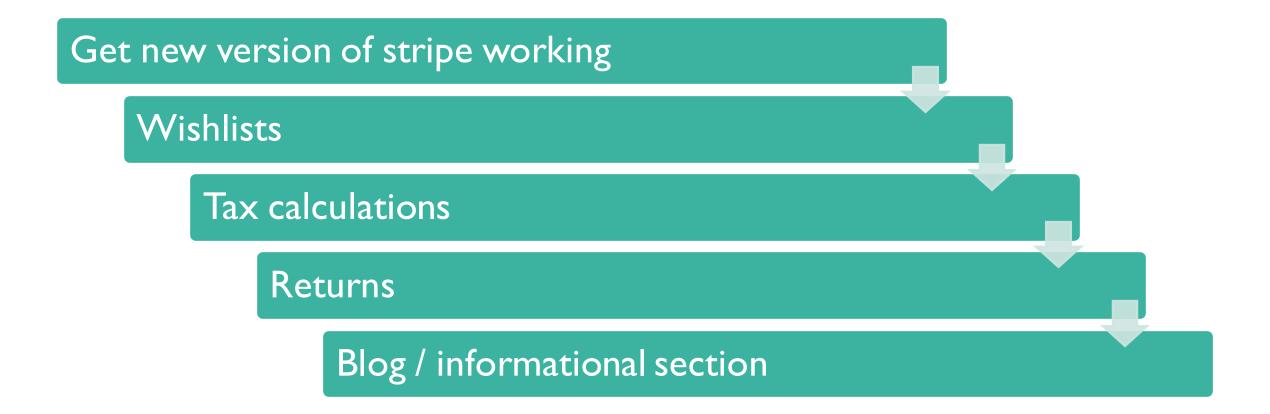


 Getting page numbers in pagination as well as previous and next button



Losing Search Result in pagination

FUTURE WORK



SUMMARY

- Accomplished almost all the goals in our proposal
- Successfully combined different technologies
- Created a functional Plants Store

