# Project Objective

Implement a Feature-level component , inside of an NG App that exhibits lazy-loading, and has automated testing.

## UI objectives

1. Implement with the most modern version of NG (Angular 10.0.07)
2. Implement an App level solution with a TopMenu and LeftNav using Angular CLI
3. Feature component (*called* ‘Member’) leverages the NG [*element*](https://angular.io/guide/elements) to create a true Web Component. *We should be able to use / re-use with any HTML based CMS or framework*
4. Use[*webpack*](https://webpack.js.org/concepts/)for compaction (downline-load speed) < 250 kb is great!
5. Implement Routine / Lazy Loading for the Add Member component and dynamic import, an optimization and App architecture pattern
6. Implement Tests: Test coverage of the NG App and feature component with Jasmine
7. Implement only the CreateMember() API through the NG Service and API stack
8. Host the App on Azure with a T.B.D. hosting option

*Optional*

* Evaluate if Ivy is meaningful (esp. if small apps), [article here](https://indepth.dev/angular-with-ivy-build-performance-review/)

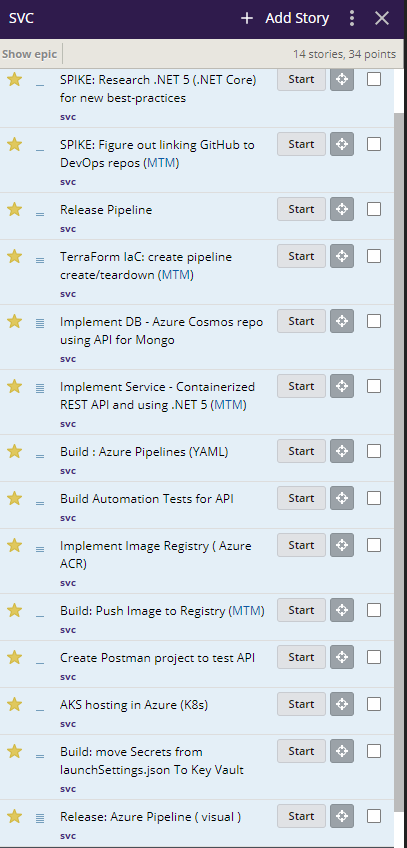
# SVC Objectives

* Use .NET 5 ( successor to .NET Core and the merger with .NET Frk’s) for Service
* Containerize and have a Linux code base, tested locally in Docker For Windows
* Learn HashiCorp TerraForm for create IaC solution in Azure:
  + Azure Container Registry (ACR) image registry
  + AKS (Kubernetes Service)
  + SPIKE: Is there a Load Balancer in front of AKS? How to route to service hosted in K8s?
  + Create NS Record (DNS) name to refer to the service (LoadBalancer)
  + Hosted-Mongo (NoSQL) in Azure Cosmos, see [API for MongoDB](https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb-introduction)
  + Both Provision and Tear-down with TerraForm (no charges after sandbox session)
    - Auto-tear down in Azure? Is that what [DevTestLabs is for – it can do this](https://azure.microsoft.com/en-us/services/devtest-lab/#overview)!

# Narrative

First, I wrote up the user stories in PivatolTracker for [project NG10E2E](https://www.pivotaltracker.com/n/projects/2463171). The UAT’s will be written or implied as I code. Tasks will also be added. GitHub check-ins will be tied to a PivotalTracker story.

Initial Backlogs on 8/26/2020 are,

For the Microservice (SVC) epic:  


For the UI epic:  
