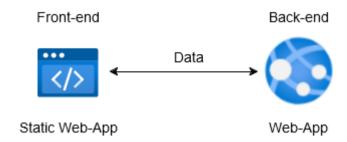
Card Sorting Game

Architecture overview



Front-end

- Originally an app for mobile devices, not for browser usage
- Built using Ionic + Angular
 - o HTML, TypeScript, SCSS
- Allows users to sort cards according to different sorting algorithms
 - o Users must follow the steps exactly as the computer would do it
- Free Play mode to sort cards in any way

Back-end

- During workshops, users can send their statistics (number of comparisons, swaps, mistakes, time, etc.) to the back-end
- Workshop manager can look at those statistics and compare student performance

Steps to host on Azure

Front-end

To host the front-end, I followed these steps:

- 1. Login to Azure
- 2. Go to Azure App Services
- 3. Create new Static Web-App
- 4. Select Azure Subscription
- 5. Create new resource group for this project
- 6. Give the App a name
- 7. Select GitHub repository as source for this static web-app
- 8. Select Angular as the Framework
- 9. Select 'West Europe' as staging region
- 10. Once the app is created, create a new route from '/' to '/home'

Back-end

For the back-end I went for a different approach and tried deploying to Azure directly via VS Code:

- 1. Install the 'Azure Tools' extensions package in VS Code
- 2. Connect VS Code to my Azure account
- 3. Create a new Web-App via VS Code
- 4. Give the App a name
- 5. Use the resource group created earlier for the front-end
- 6. Select newest Node version as runtime stack
- 7. Select Linux as OS
- 8. Create new service plan with basic tariff
- 9. Deploy

In theory these steps should work, but I ran into some issues after hitting deploy.

I got several errors of this kind:

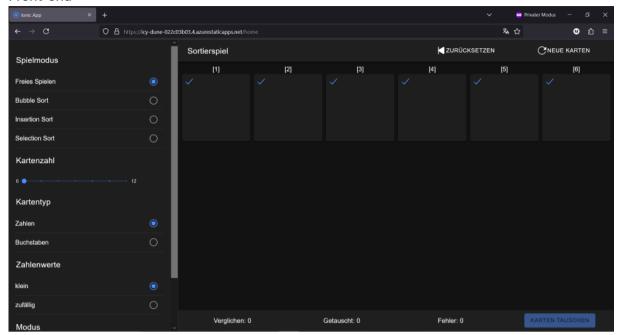
The subscription is not registered to use namespace Microsoft.Storage

https://learn.microsoft.com/en-us/answers/questions/1239876/the-subscription-is-not-registered-to-use-namespac

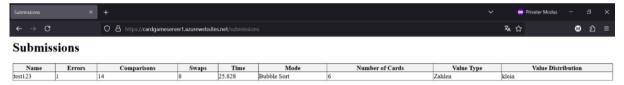
Using this forum post I managed to fix the issues by activating several namespaces under subscription -> resource providers.

Example pictures

Front-end



Back-end



Links

https://github.com/michael9186/sortingGameWeb

https://icy-dune-022c03b03.4.azurestaticapps.net/home

https://github.com/michael9186/sortingGameServer

https://cardgameserver1.azurewebsites.net/