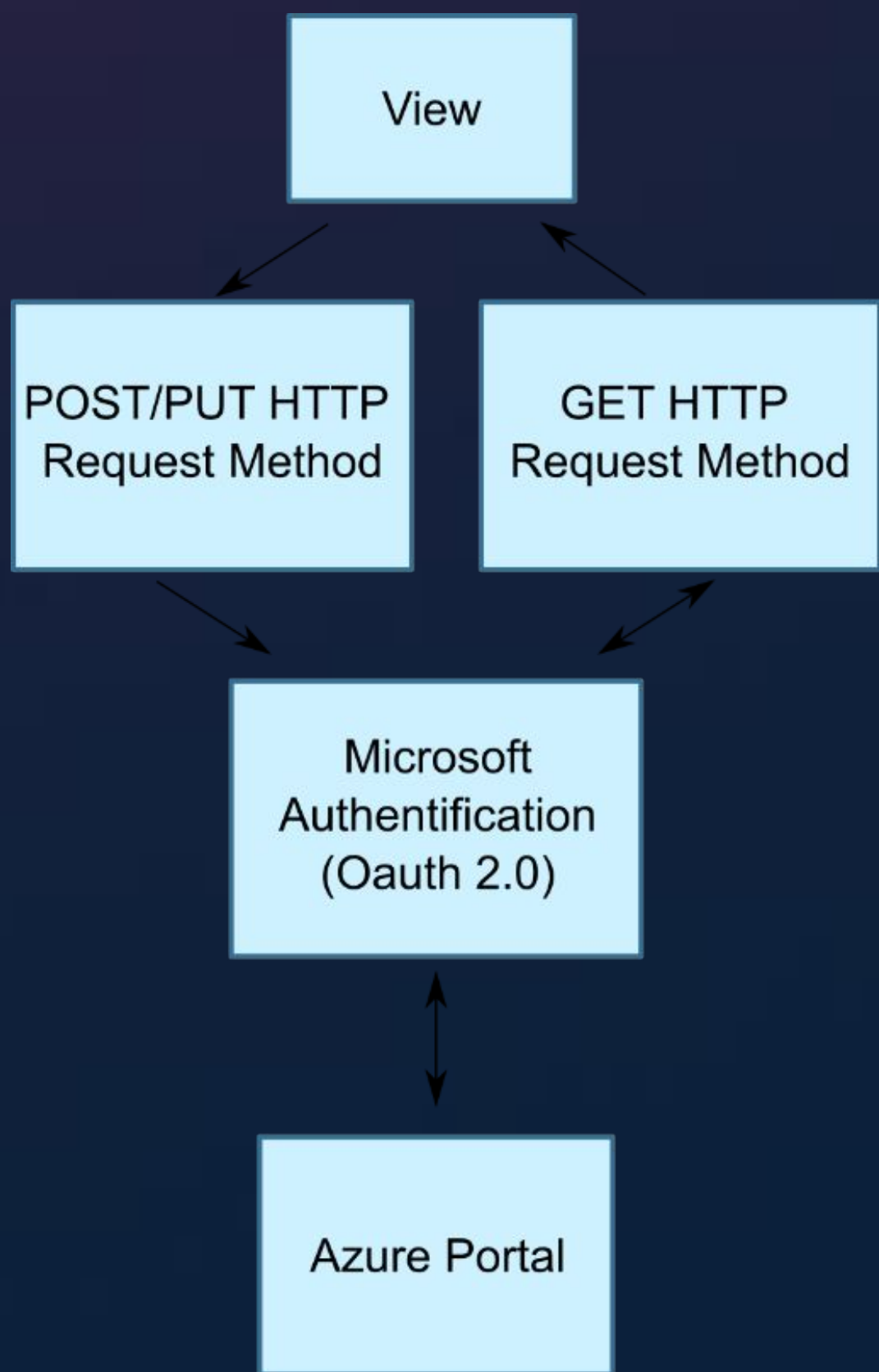




PROBLEM

The initial problem for the project was to develop a Nextcloud service which allows users to login to Azure. This problem can from the fact that even though there are a variety of Nextcloud apps on their app store, there is not one that allows users to interact with the Azure portal. NextAzure not only lets users login, they can manipulate services without having to go straight to the Azure portal.

SYSTEM DESIGN



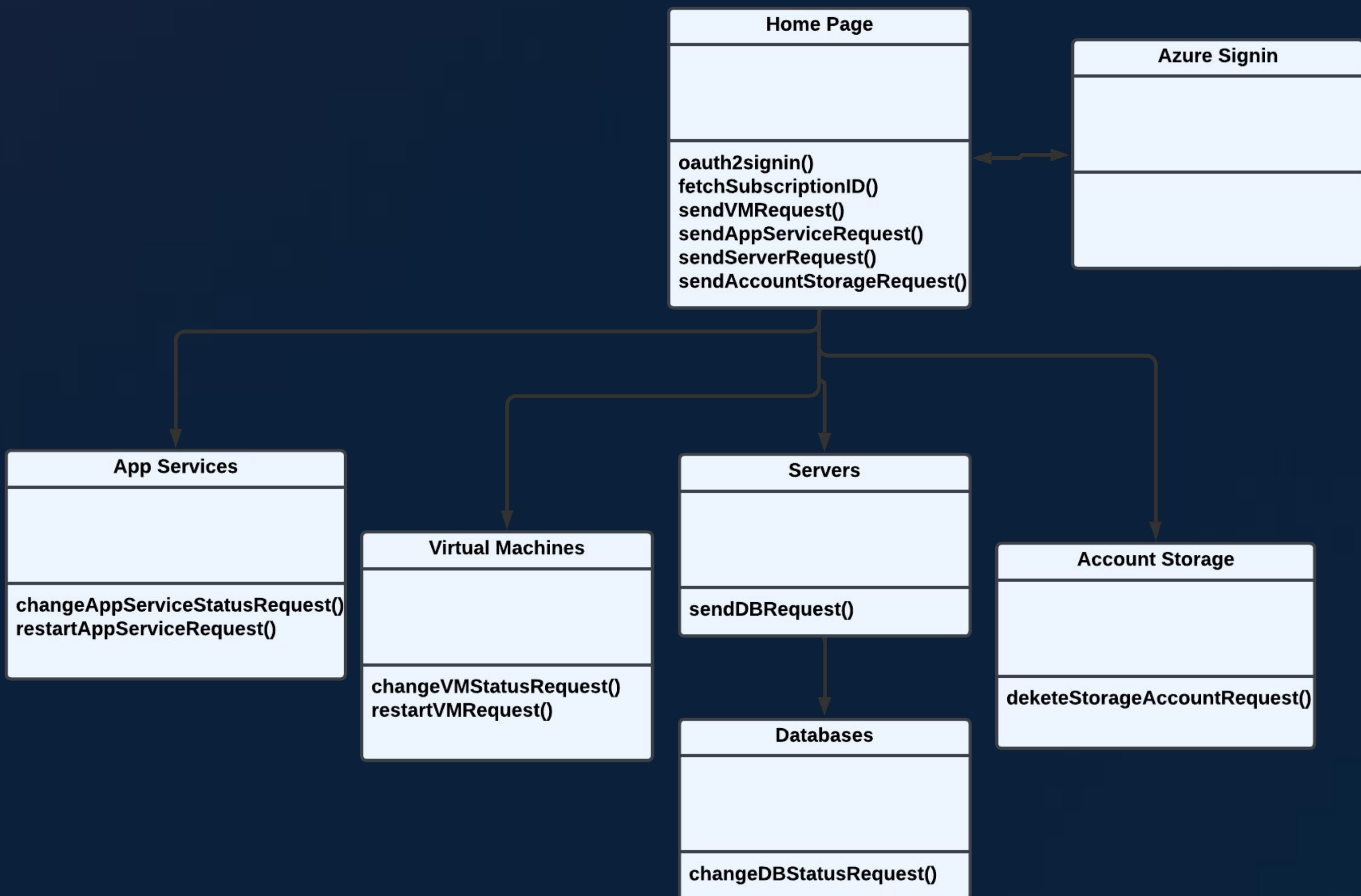
VERIFICATION

Team collaboration and version control were maintained via GitHub. New contributions to the project were first tested on the team members' local machine before a pull request was created in the project's repository. Once the pull requests were reviewed and approved by each team member, they were merged with the main branch of the app repository. If a pull request wasn't approved, feedback was given to the team member who created the pull request, and the team member would rework the contribution with the feedback in mind.

CURRENT SYSTEM

The current version of NextAzure allows users to sign in and view and interact with various Azure systems such as Virtual Machines, Databases, Account Storage, and App Services. Users are able to create, delete, start, and stop all of these various systems.

OBJECT DESIGN



SUMMARY

NextAzure is an application developed for NextCloud that allows users to interact with the Microsoft Azure portal from the NextCloud website. Using Microsoft Azure's REST API, NextAzure can get information about users' services and applications from the Azure portal, send information about users' desired actions back to the Azure portal, and even allow users to create or delete their services and applications on the Azure portal.

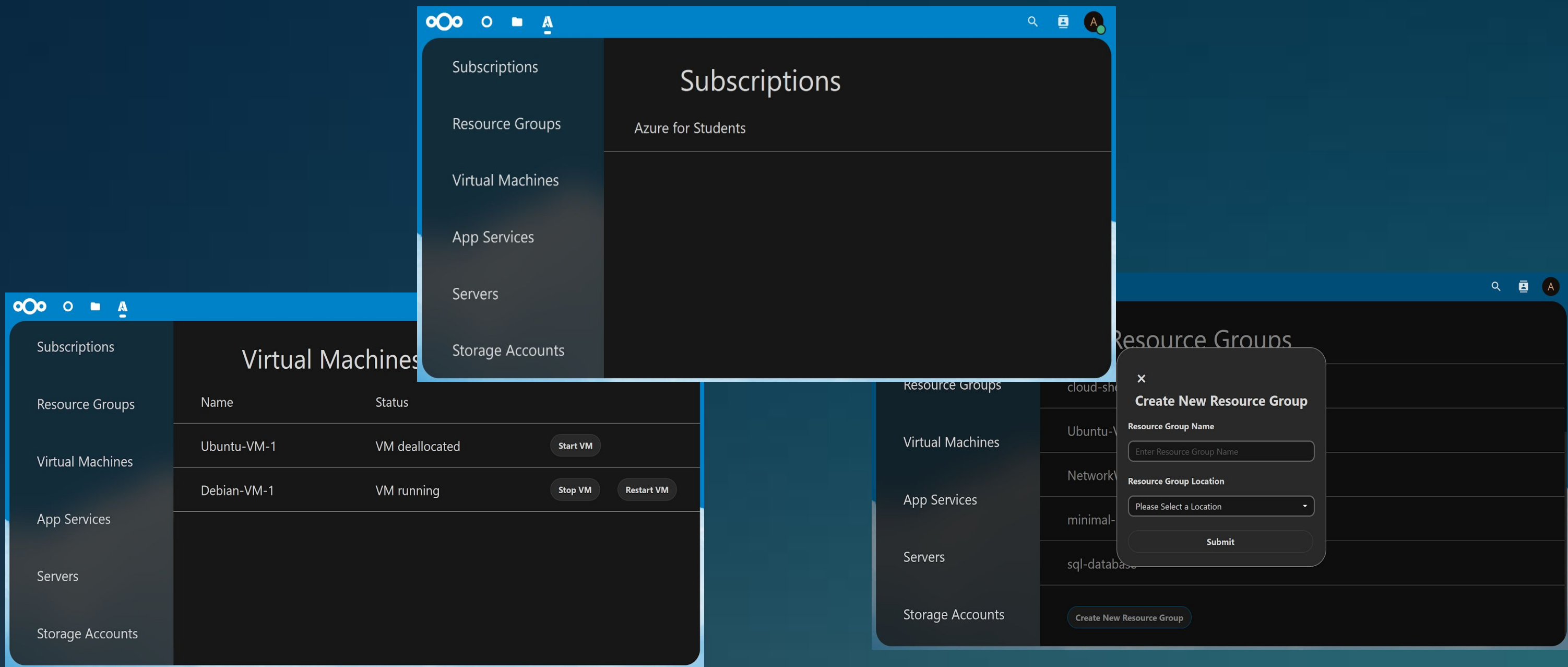
REQUIREMENTS

- What was required of us on this project:
- Set up Nextcloud Development environment:
 - Windows System required
 - Install WSL2 and Ubuntu
 - Set up docker
 - Install nextcloud-docker-dev
 - Develop NextAzure app
 - Allow Users to login to Azure portal
 - Develop interface to interact with Azure Virtual Machines
 - Develop interface to interact with Azure databases
 - Develop interface to interact with Azure Account Storage

IMPLEMENTATION



USER INTERFACE



ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by XXXXX (name of the project sponsor: federal, state or local government, or corporate partners, where applicable). We/I thank XXXX for his/her/their assistance and mentorship that I/we received throughout the senior design project.