

NextAD: Azure Profile Management Integration App

Student: Sergio Roa

Instructor/Faculty: Dr. Masoud Sadjadi, Florida International University

PROBLEM

When a user is away from the company base they would typically no longer have access to their active directory. This app serves to resolve that issue within nextcloud and allows the user to customize and view their attributes while not being directly at the location with the AD.

CURRENT SYSTEM

Our app allows the user to be able to access their own profile within an established active directory and make various changes to their information all within nextcloud.

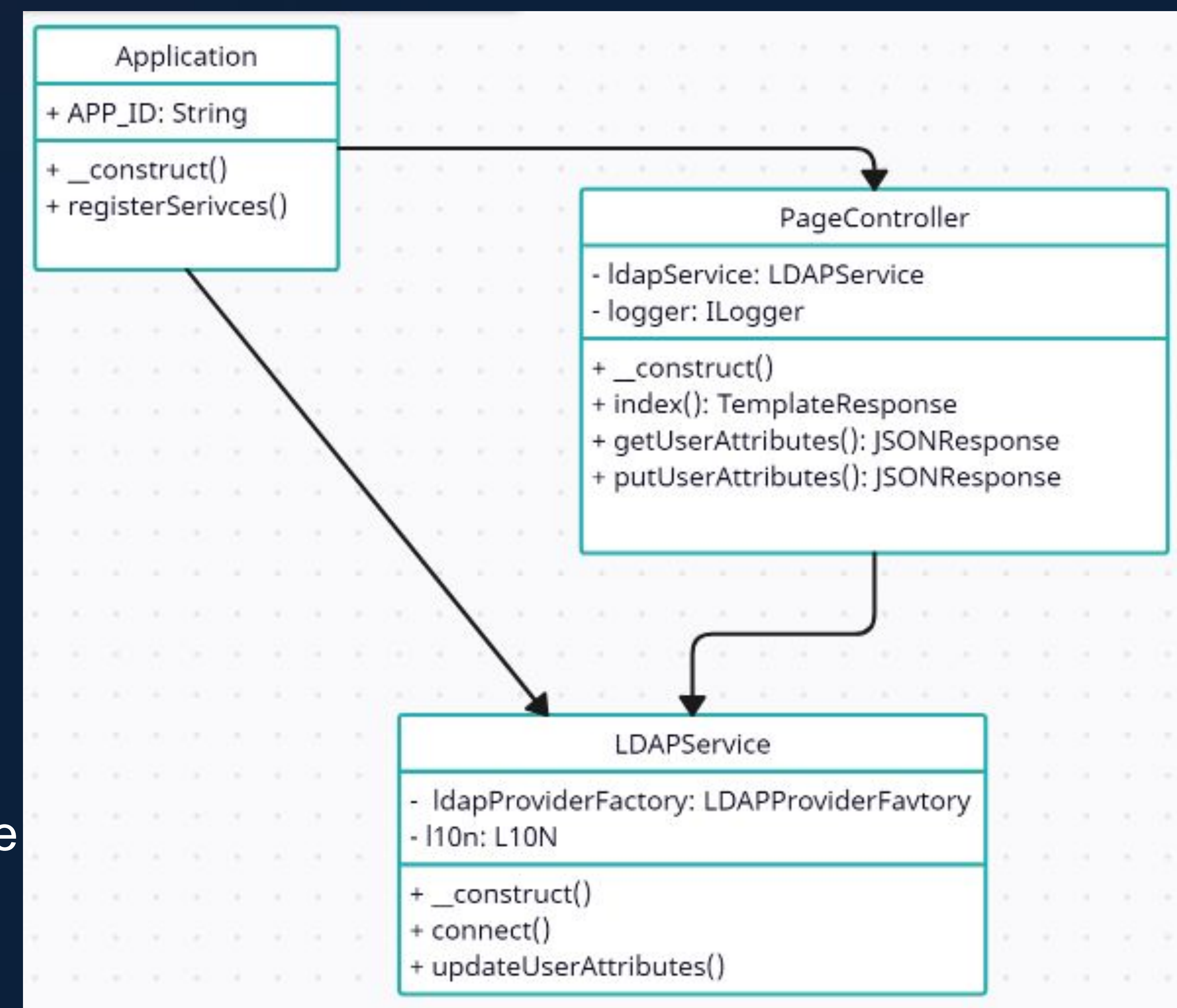
REQUIREMENTS

- An established Active Directory(e.g. Azure AD, Windows AD)
- LDAP app from Nextcloud(Change configuration within Expert Setting UUIDs to be 'CN')

SUMMARY

This Nextcloud app was developed with the purpose of creating an easy connection for a User or Admin to manipulate their or other attributes on an Active Directory from any locations so long as their using Nextcloud.

Object Design



INDIVIDUAL CONTRIBUTION

I worked on setting up and configuring the LDAP connection from the User_LDAP app provided by Nextcloud so that the users can be more easily read and input by the NextAD app. I also assisted in creating and testing the endpoints that would be used to pull and update user attributes in the Active Directory.

IMPLEMENTATION



We used Visual Studios to create the code(.php) and configured 2 additional endpoints to accomplish 2 main tasks: 1 endpoint connects the user to their own profile within the Active Directory with an LDAP connection and executes a PULL request to acquire user information/attributes; 1 endpoint executes a POST request that updates user attributes to the Active Directory. JavaScript was used to develop the form for users to input their information

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.