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GITHUB: GITHUB.COM/CARINEGORDILLO/CECS491

Version History

Version	Date	Changes
1	December 18, 2023	Initial submission

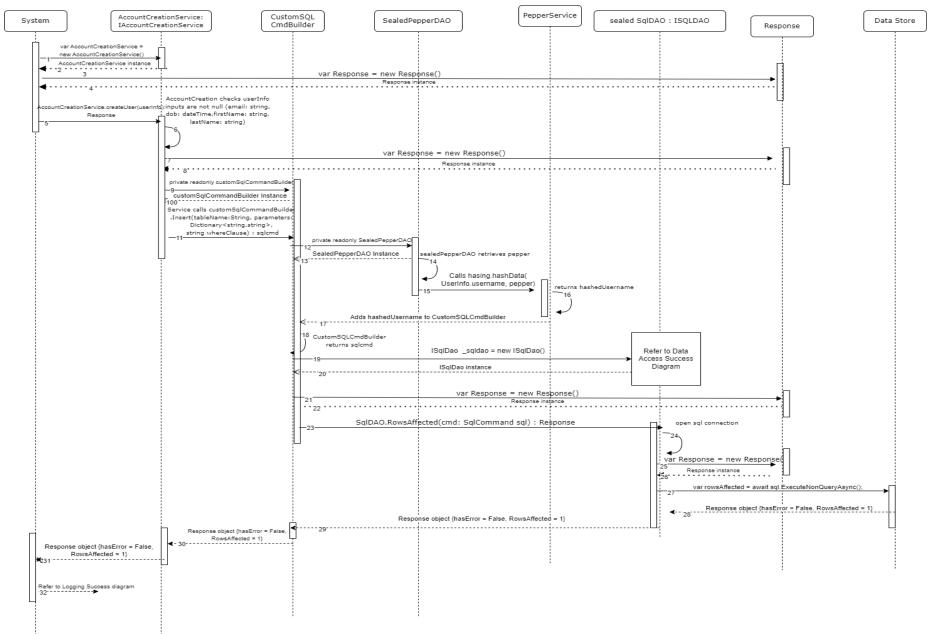
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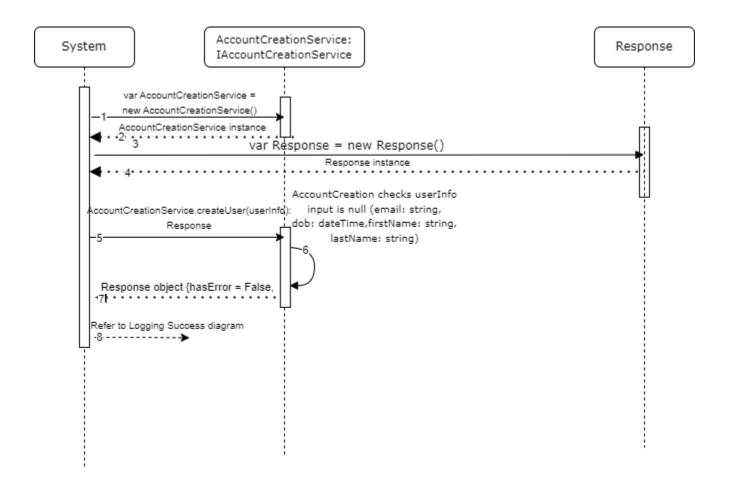
Introduction:

The purpose of this document is to provide a detailed overview of how each feature in our web application functions. Each feature will have its own diagram showing the flow of data through each layer that feature will go through. Our diagrams will address all success and failure outcomes so that all scenarios regarding that feature will be accounted for. With the help of these diagrams, developers and clients will gain a better understanding of how each feature will work and interact with the different layers that allow our application to function.

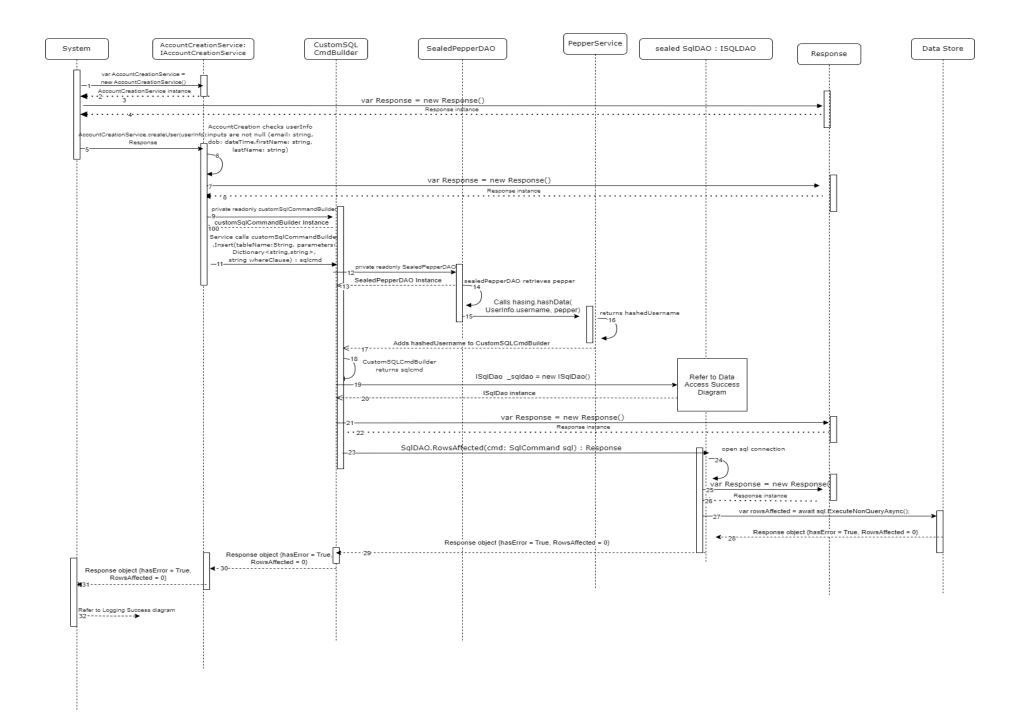
AccountCreation.Success



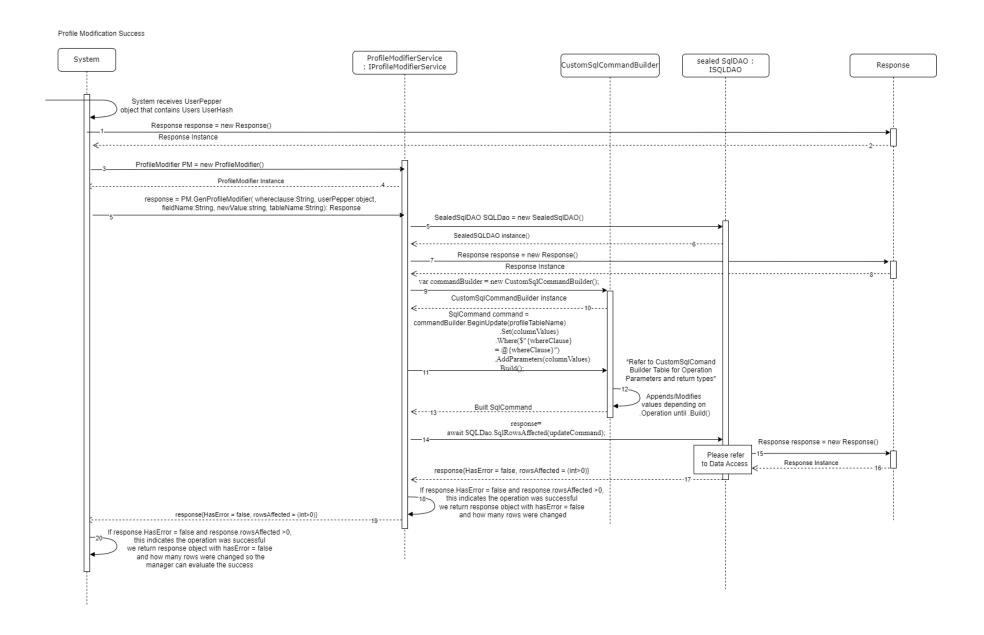
AccountCreation.InvalidUserInfo



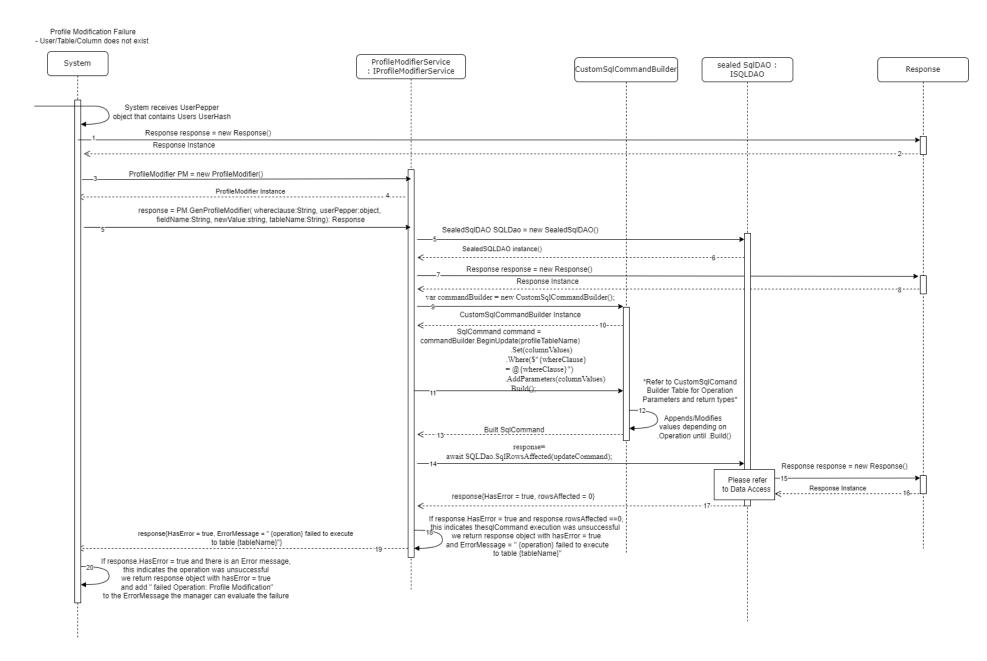
AccountCreation.InvalidTableInsert



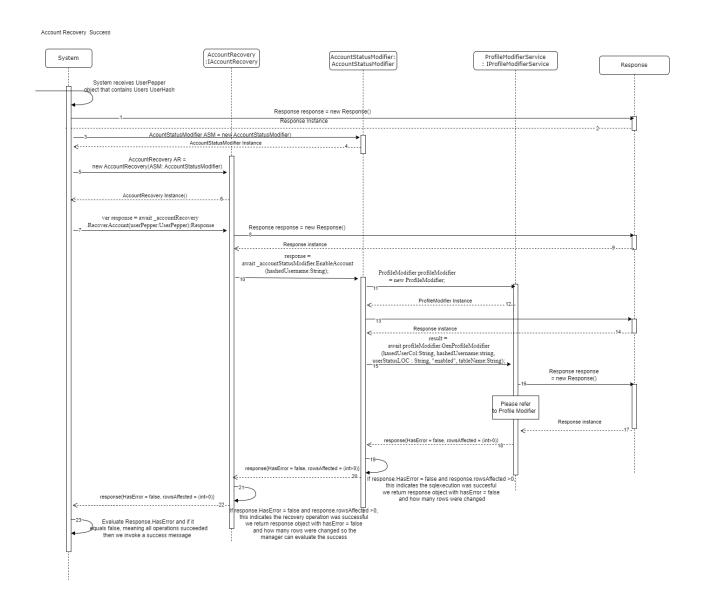
UpdateProfile.Success



UpdateProfile.Failure.Data/Table/ColumnDoesNotExist

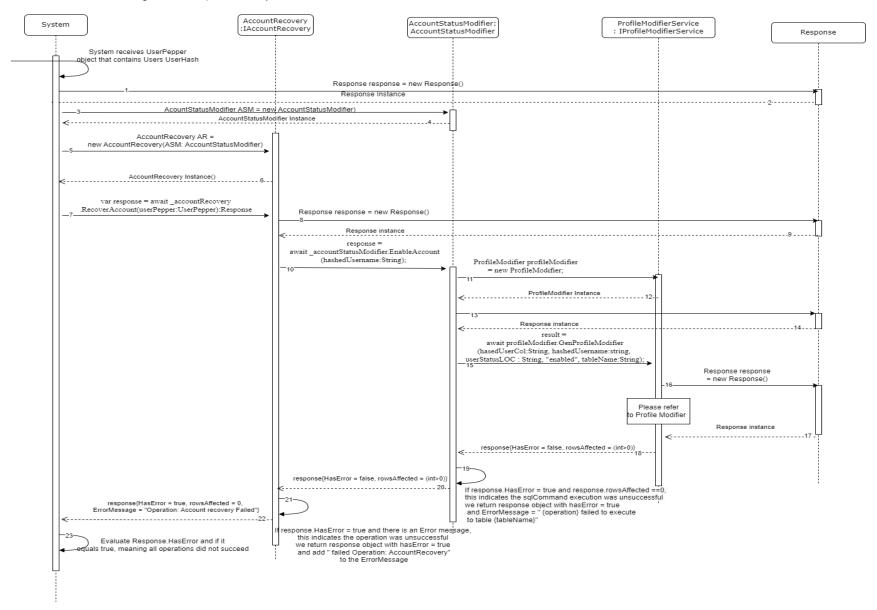


AccountRecovery.Success

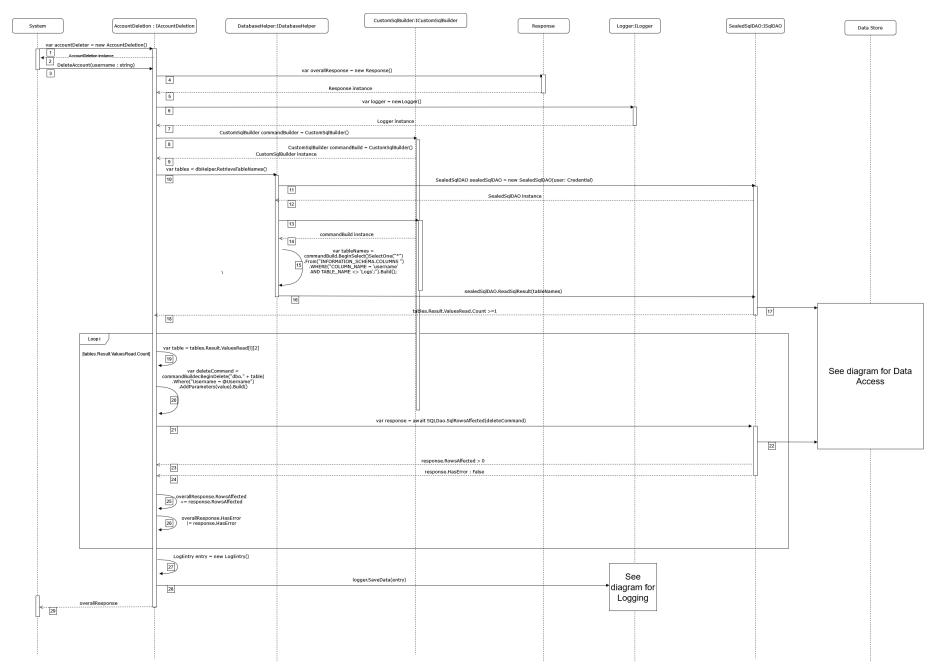


AccountRecovery.Failure

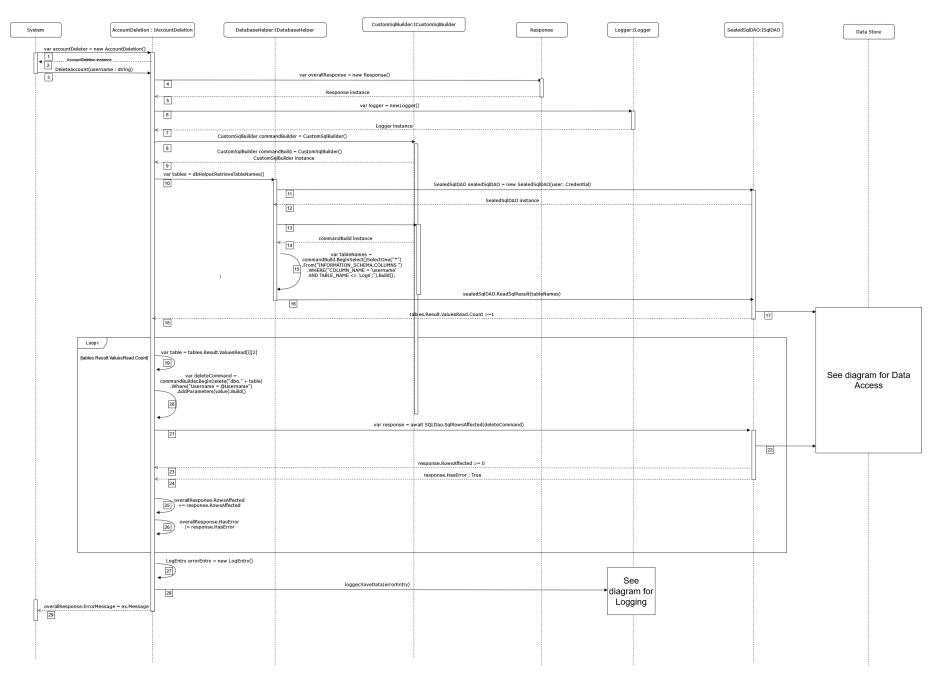
Account Recovery Failure - commmand doe not execute due to strings that do not exist, Error in DAO sequence



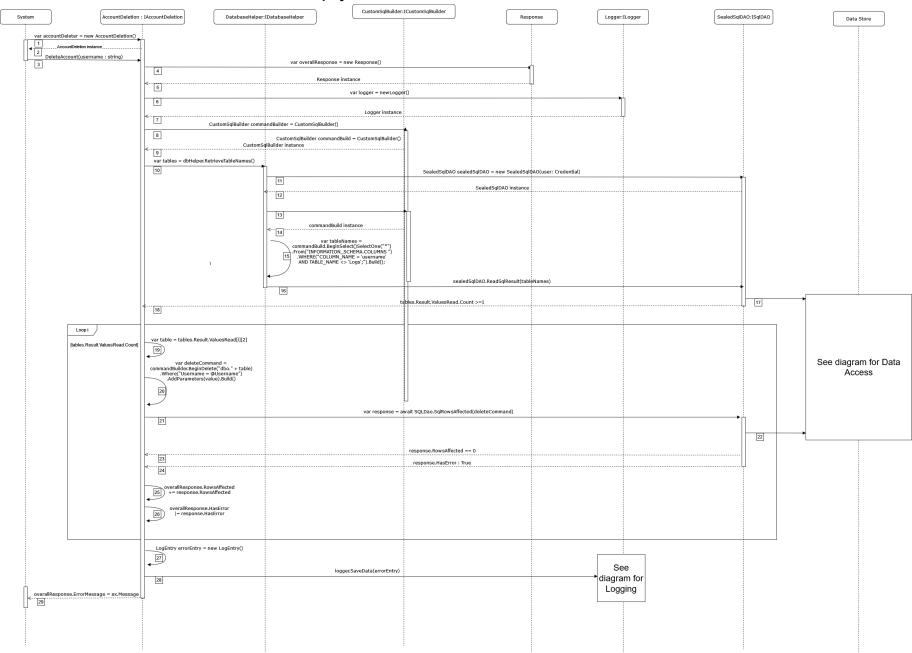
AccountDeletion.Success



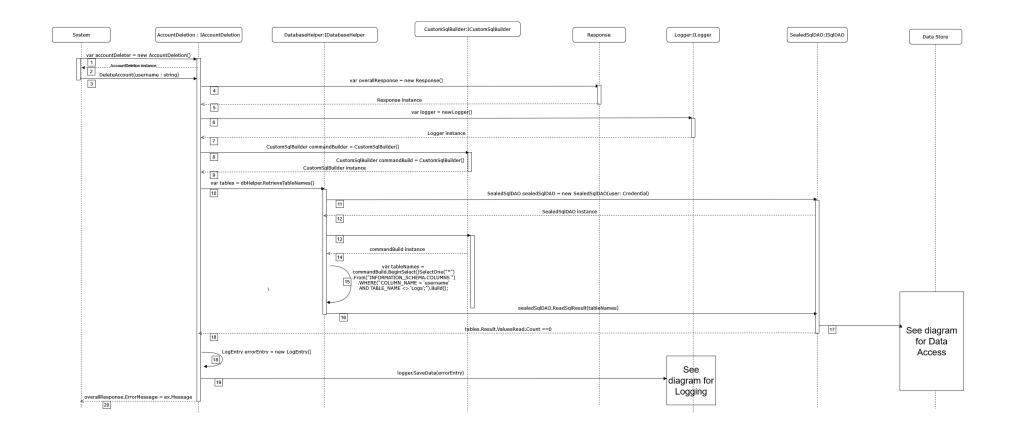
AccountDeletion.Failure



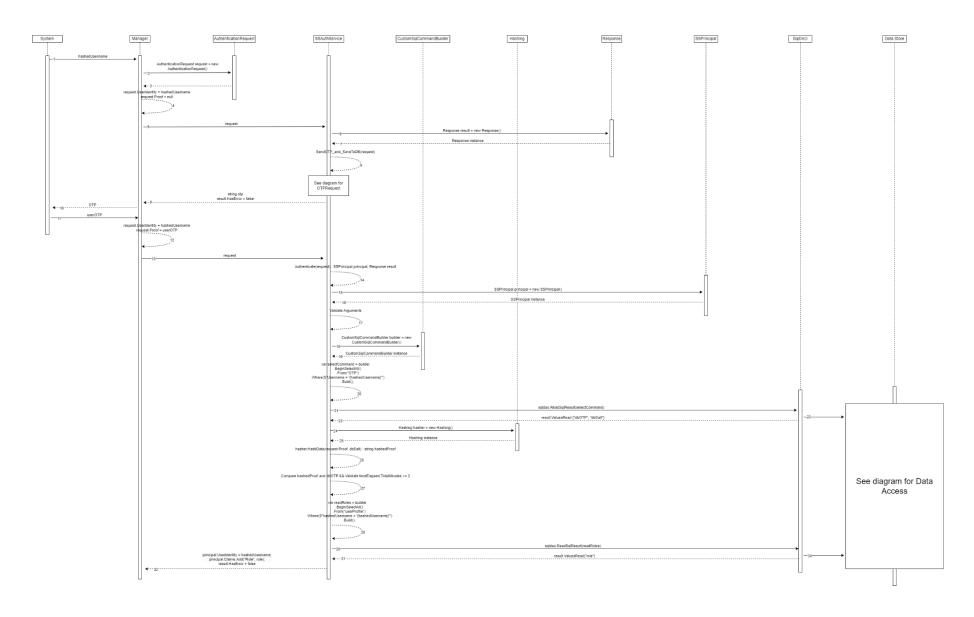
AccountDeletion.Failure.Empty



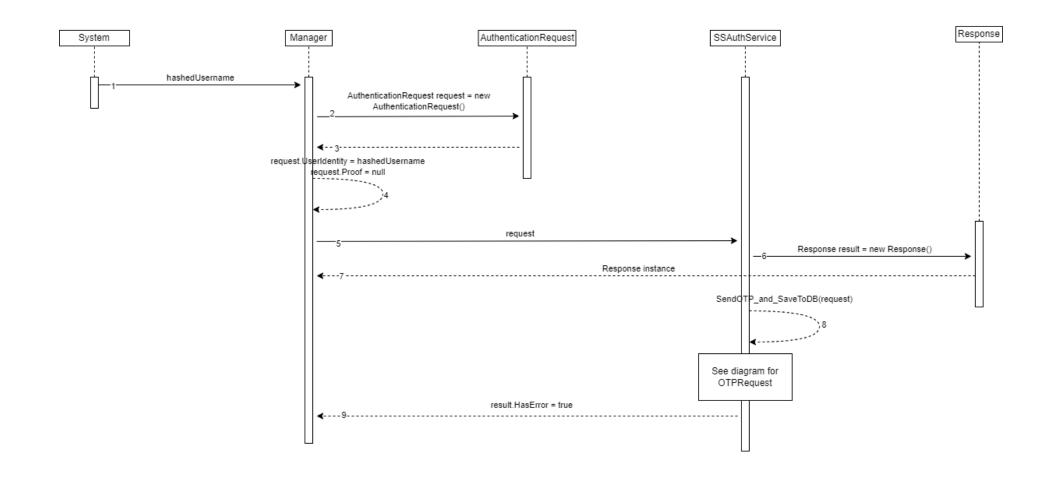
AccountDeletion.DatabaseHelper.Failure



Authentication.Success

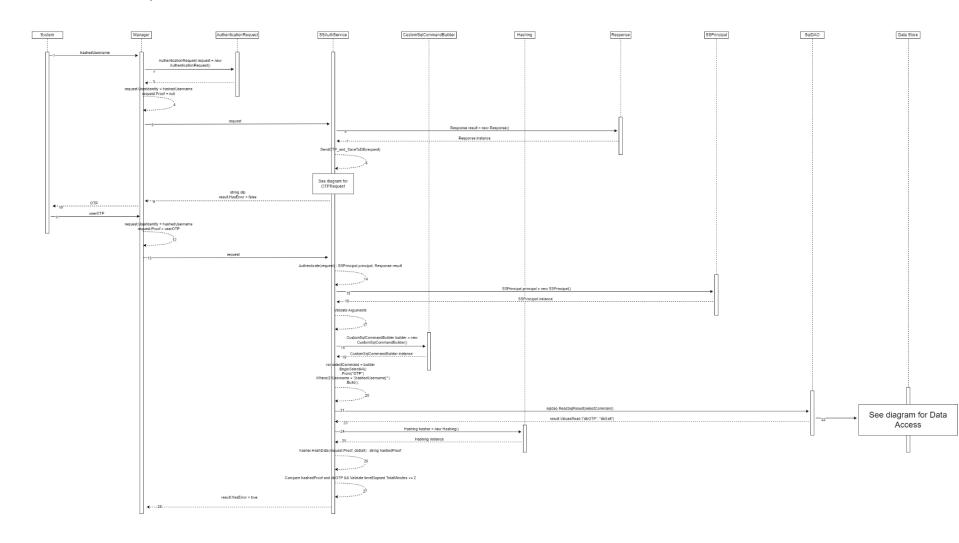


Authentication Failure. Unregistered User



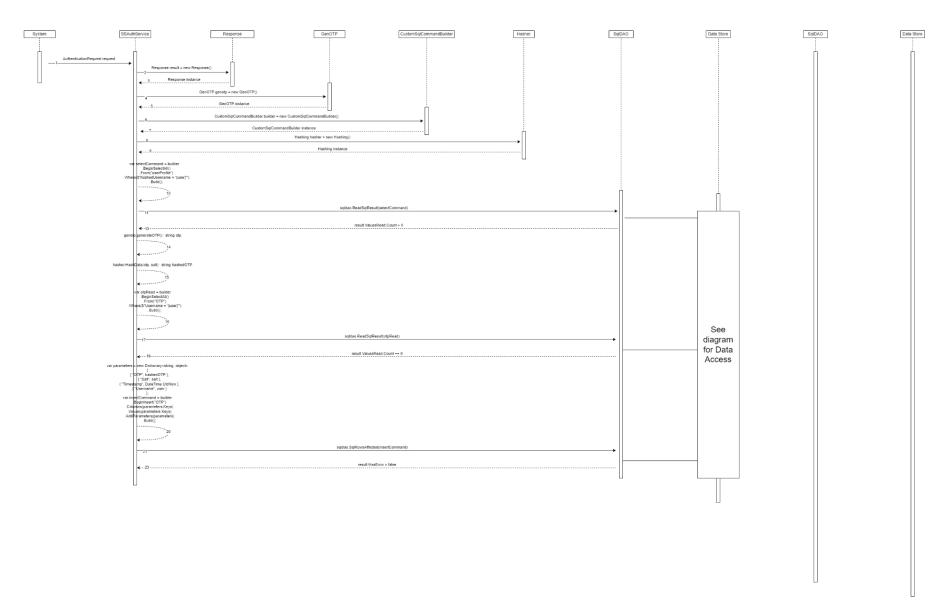
Authentication Failure. Expired OTP

Authentication Failure - Expired OTP



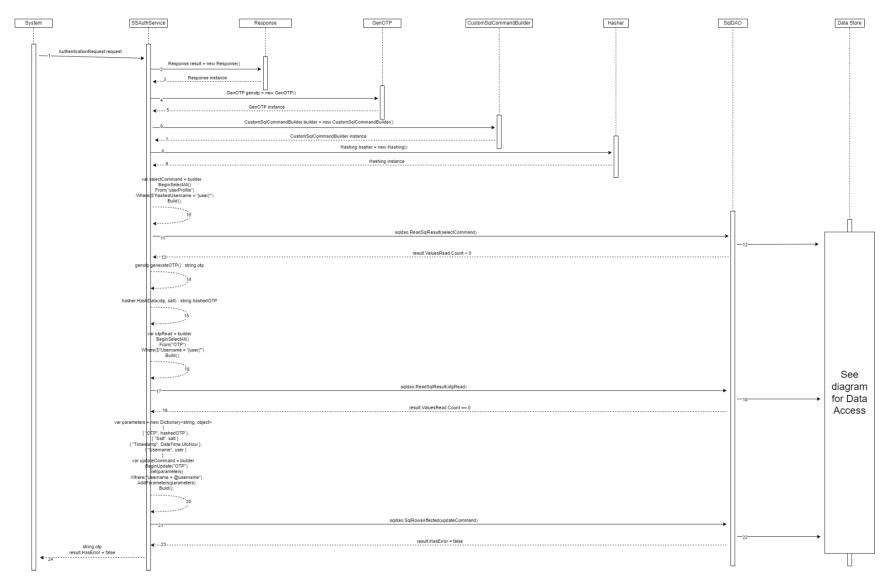
OTPRequest - User has never authenticated before

OTPRequest - User has never authenticated before

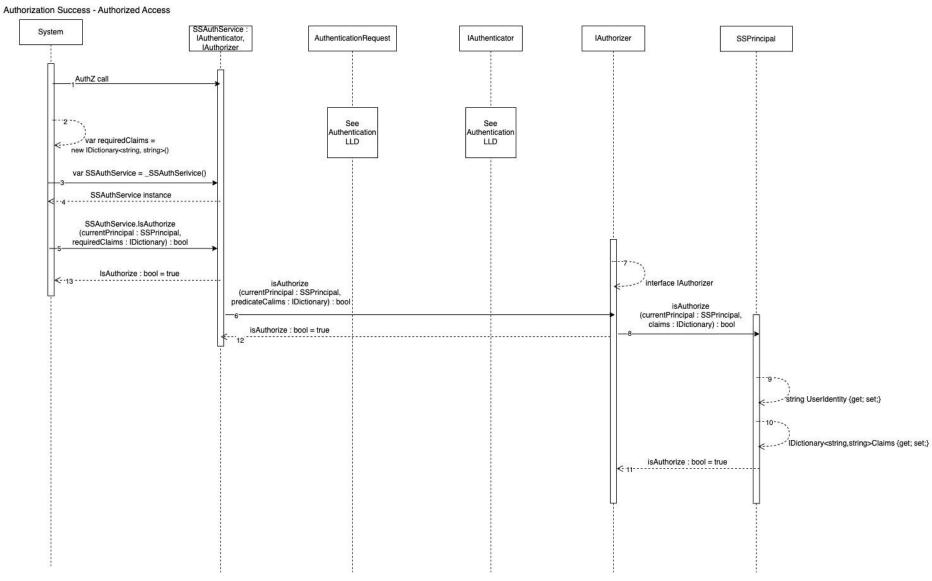


OTPRequest - User has authenticated before

OTPRequest - User has authenticated before **Key difference on line 20 & 21**

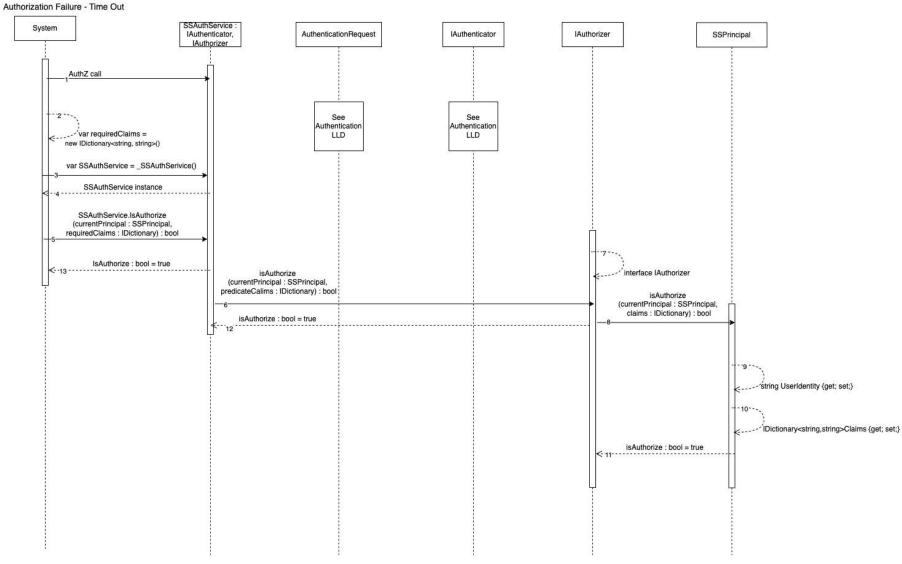


Authorization.Success



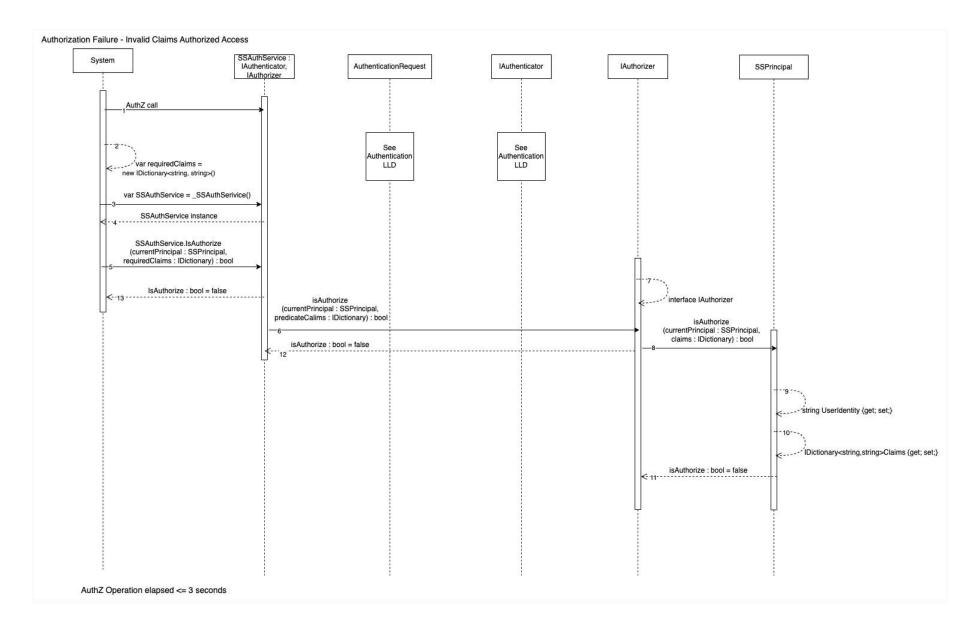
AuthZ Operation elapsed <= 3 seconds

Authorization.Failure.Timeout

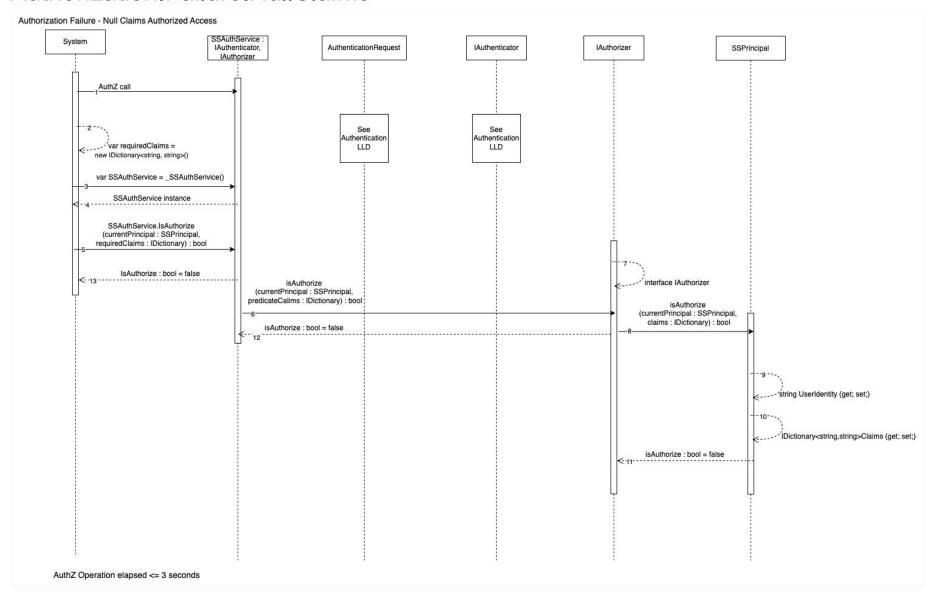


AuthZ Operation elapsed > 3 seconds

Authorization.Failure.InvalidClaims



Authorization.Failure.NullClaims



SQLCommandBuilder Methods: Parameters and Return Types

ICustomSqlCommandBuilder BeginInsert(string tableName); ICustomSqlCommandBuilder Columns(IEnumerable<string> columns); ICustomSqlCommandBuilder Values(IEnumerable<string> columns); ICustomSqlCommandBuilder BeginUpdate(string tableName); ICustomSqlCommandBuilder Set(Dictionary<string, object> columnValues); ICustomSqlCommandBuilder Where(string whereClause); ICustomSqlCommandBuilder BeginSelect(); ICustomSqlCommandBuilder BeginSelectAll(); ICustomSqlCommandBuilder SelectColumns(params string[] columns); ICustomSqlCommandBuilder From(string tableName); ICustomSqlCommandBuilder BeginDelete(string tableName); ICustomSqlCommandBuilder Join(string joinTable, string fromColumn, string toColumn); ICustomSqlCommandBuilder AddParameters(Dictionary<string, object> parameters); SqlCommand Build();