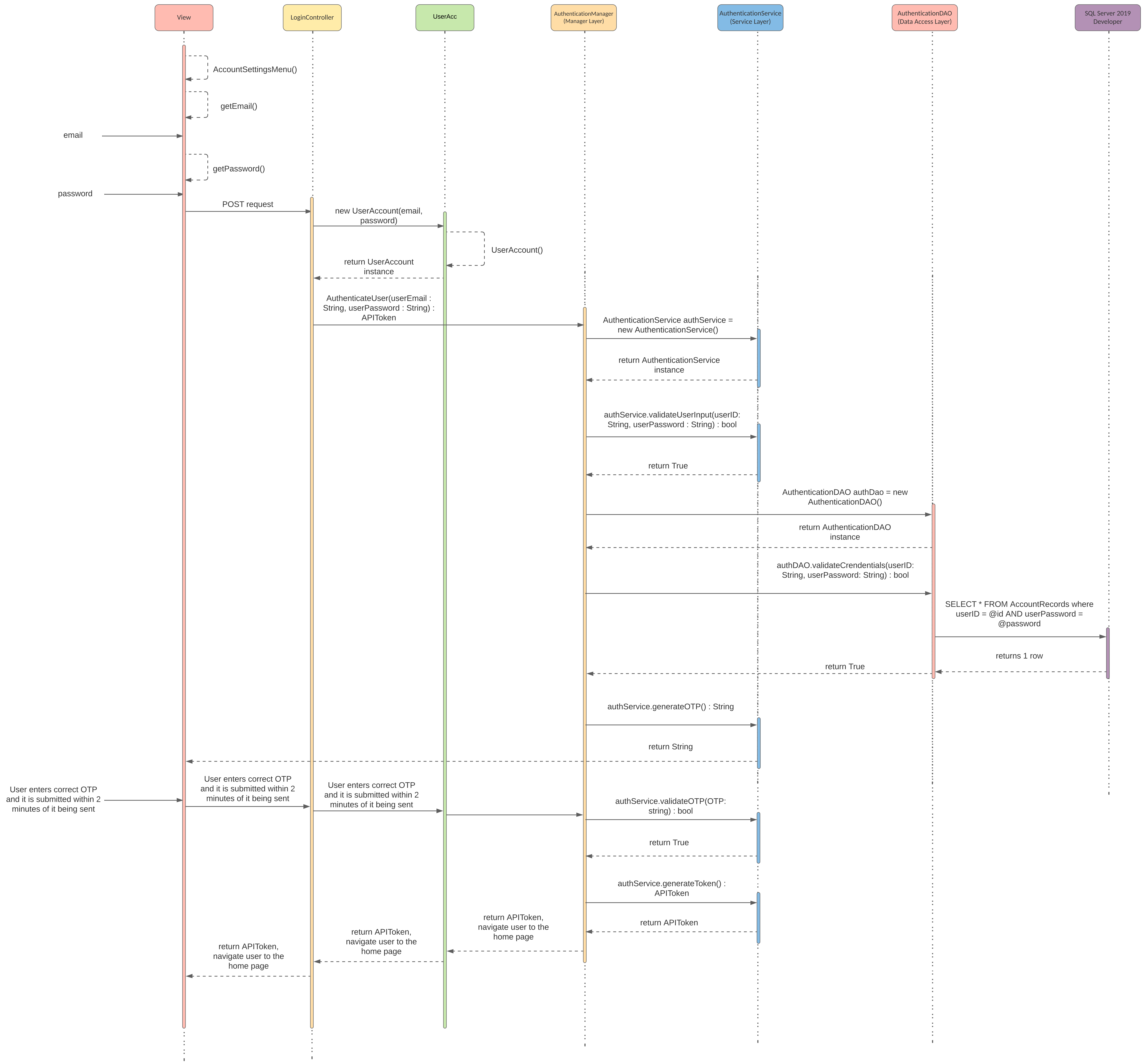
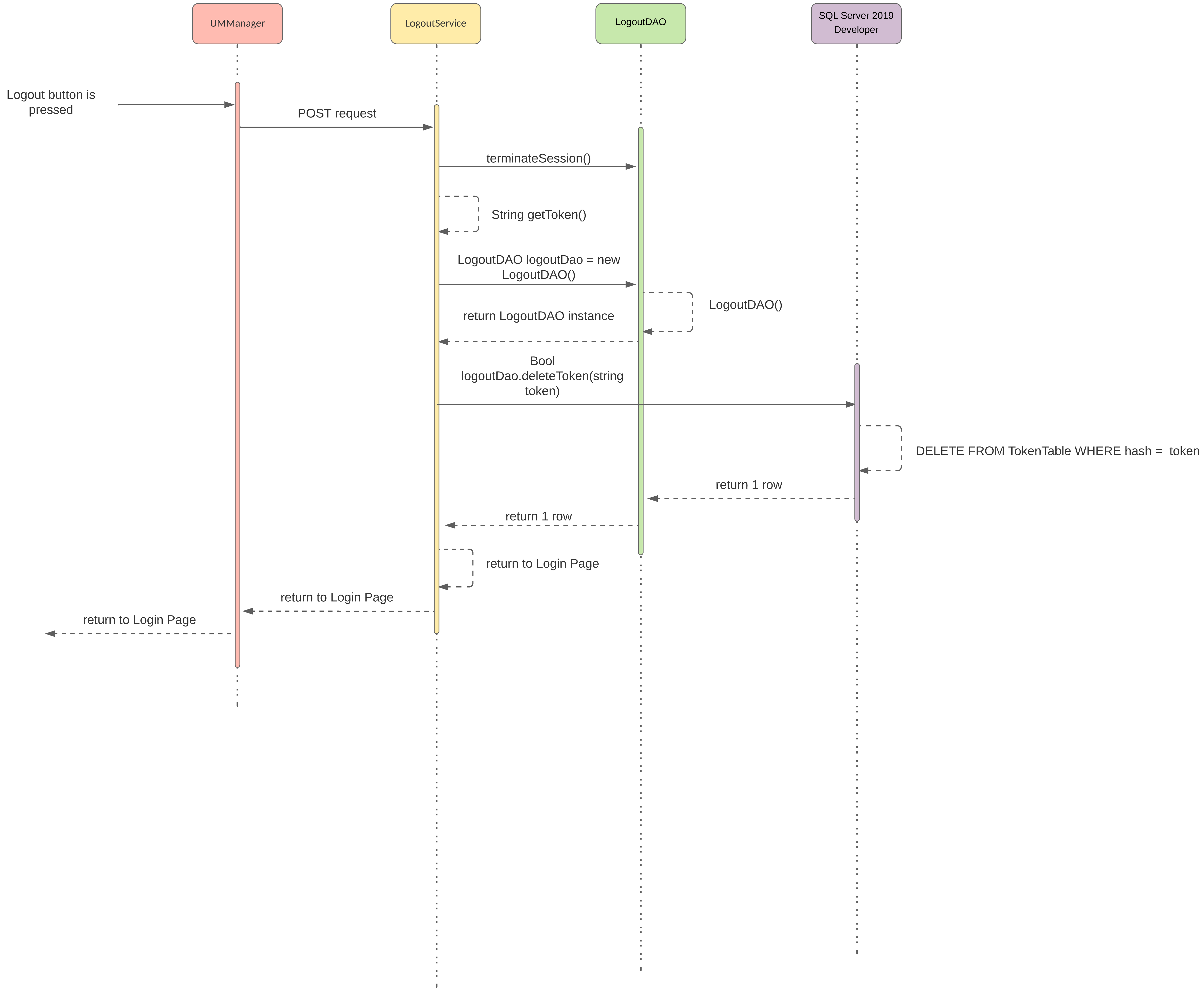
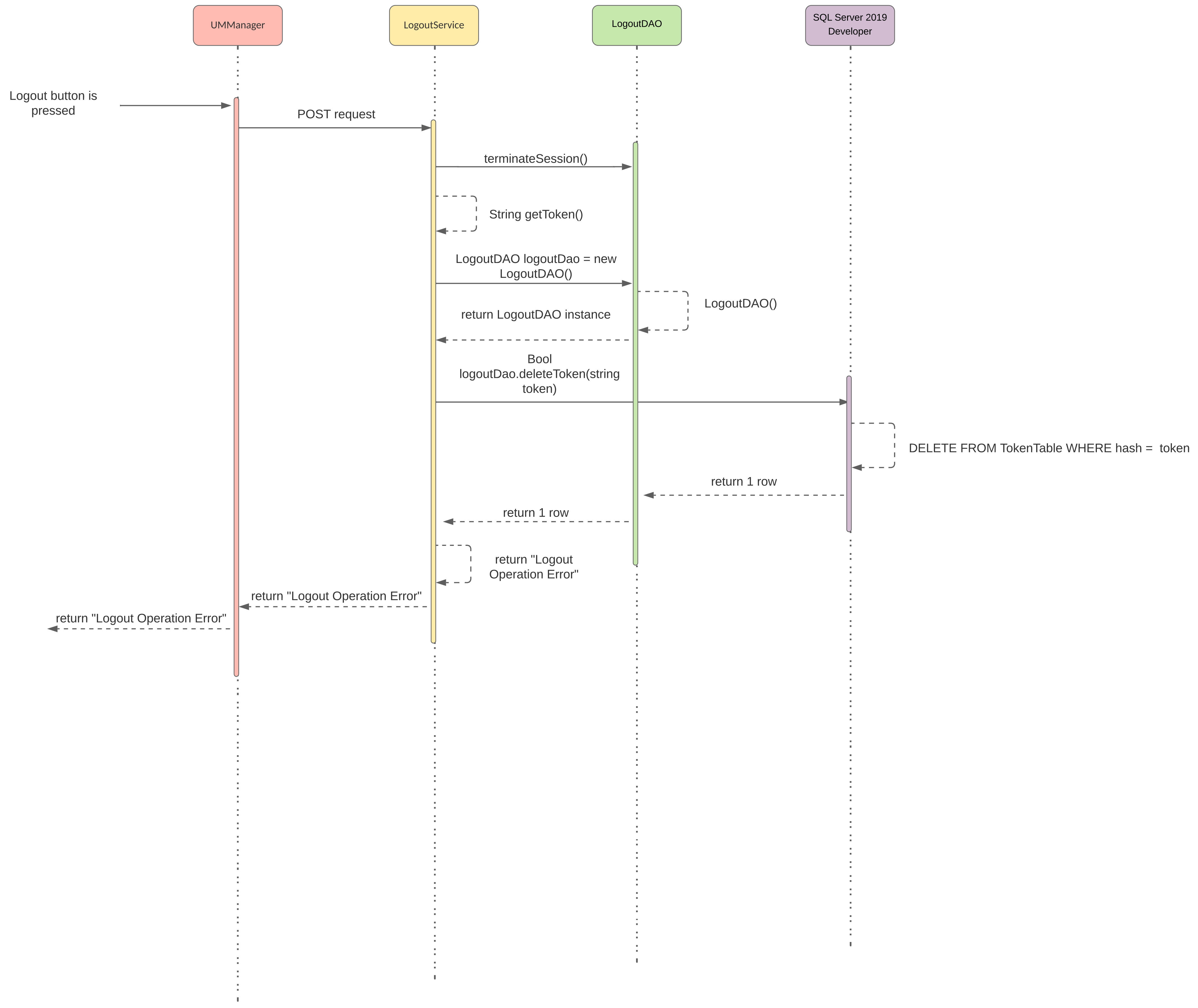
# Login Success Case 1


View
LoginController
UserAcc
AuthenticationManager (Manager Layer)
AuthenticationService (Service Layer)
AuthenticationDAO (Data Access Layer)
SQL Server 2019 Developer
AccountSettingsMenu()
getEmail()
email
getPassword()
password
POST request
new UserAccount(email, password)
UserAccount()
return UserAccount instance
AuthenticateUser(userEmail : String, userPassword : String) : APIToken
AuthenticationService authService = new AuthenticationService()
return AuthenticationService instance
authService.validateUserInput(userID: String, userPassword : String) : bool
return True
AuthenticationDAO authDao = new AuthenticationDAO()
return AuthenticationDAO instance
authDAO.validateCrendentials(userID: String, userPassword: String) : bool
SELECT * FROM AccountRecords where userID = @id AND userPassword = @password
returns 1 row
return True
authService.generateOTP() : String
return String
User enters correct OTP and it is submitted within 2 minutes of it being sent
User enters correct OTP and it is submitted within 2 minutes of it being sent
User enters correct OTP and it is submitted within 2 minutes of it being sent
authService.validateOTP(OTP: string) : bool
return True
authService.generateToken() : APIToken
return APIToken
return APIToken, navigate user to the home page
return APIToken, navigate user to the home page
return APIToken, navigate user to the home page

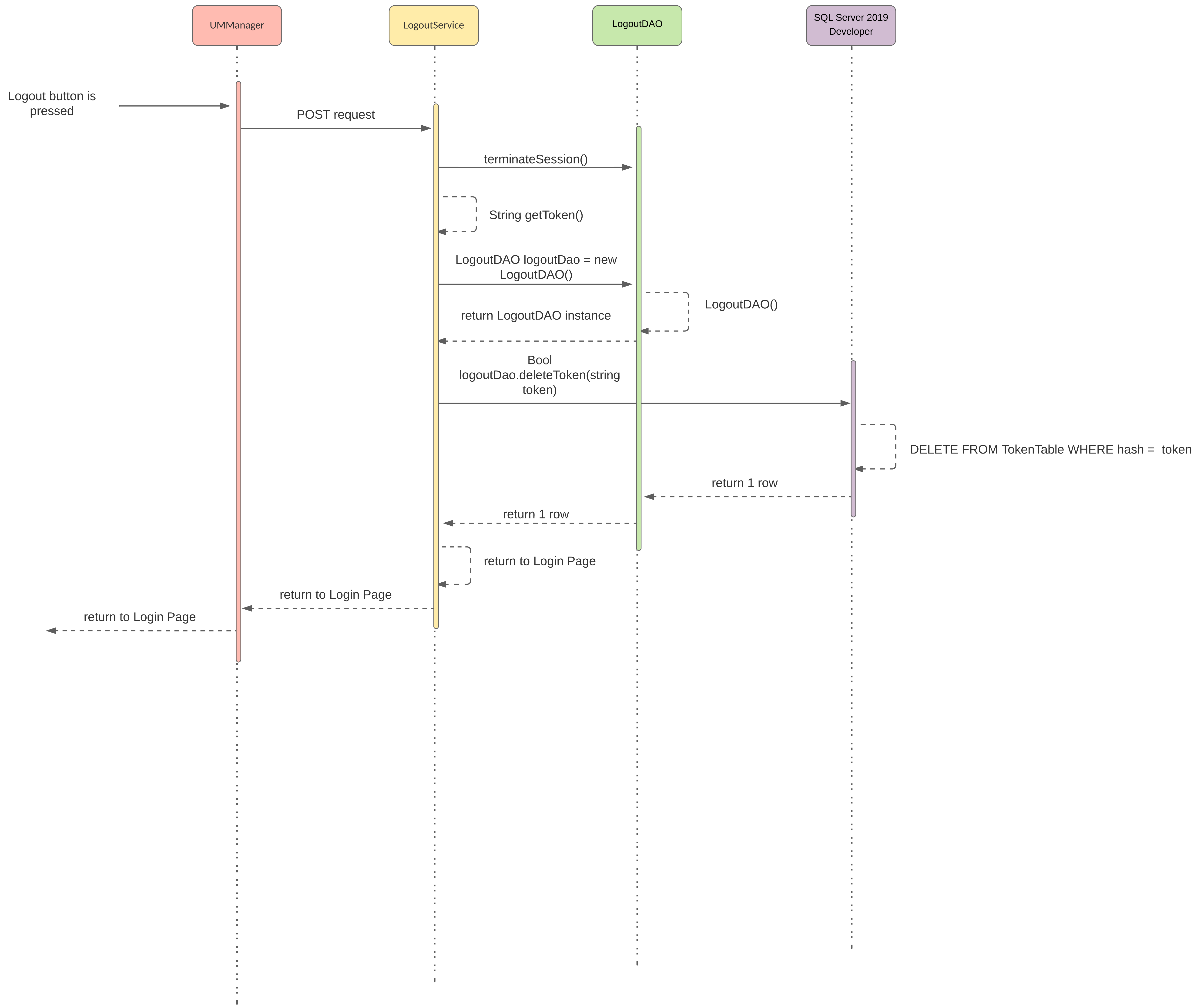
Logout Success Case 1: User performs logout request. The active session ends. The user is automatically navigated to the default home view of the system with the default culture settings. A system message displays “Logout successfully” upon completion of automatic navigation to home view. The logout process completes within 5 seconds upon invocation.


UMManager
LogoutService
LogoutDAO
SQL Server 2019 Developer
Logout button is pressed
POST request
terminateSession()
String getToken()
LogoutDAO logoutDao = new LogoutDAO()
LogoutDAO()
return LogoutDAO instance
Bool logoutDao.deleteToken(string token)
DELETE FROM TokenTable WHERE hash =  token
return 1 row
return 1 row
return to Login Page
return to Login Page
return to Login Page

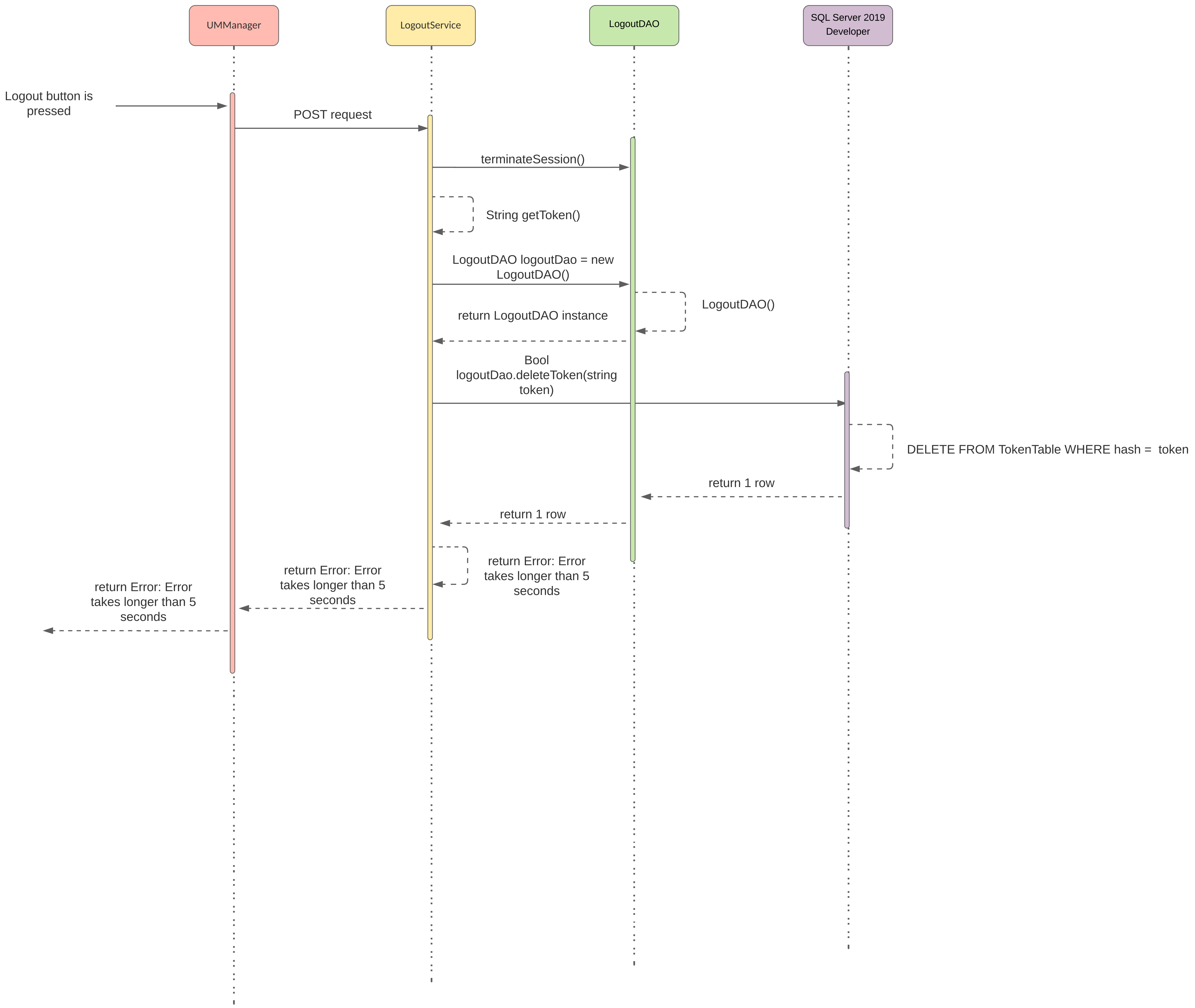
Logout Failure Case 1: User performs logout request. The active session has ended. The user is not automatically navigated to the default home view. A system message displays "Logout operation error" or no message is shown


UMManager
LogoutService
LogoutDAO
SQL Server 2019 Developer
Logout button is pressed
POST request
terminateSession()
String getToken()
LogoutDAO logoutDao = new LogoutDAO()
LogoutDAO()
return LogoutDAO instance
Bool logoutDao.deleteToken(string token)
DELETE FROM TokenTable WHERE hash = token
return 1 row
return 1 row
return "Logout Operation Error"
return "Logout Operation Error"
return "Logout Operation Error"

Logout Failure Case 2: User performs logout request. The active session has ended. The user is automatically navigated to the default home view, but not set to the default culture settings. A system message displays “Logout operation error” or no message is shown


UMManager
LogoutService
LogoutDAO
SQL Server 2019 Developer
Logout button is pressed
POST request
terminateSession()
String getToken()
LogoutDAO logoutDao = new LogoutDAO()
LogoutDAO()
return LogoutDAO instance
Bool logoutDao.deleteToken(string token)
DELETE FROM TokenTable WHERE hash = token
return 1 row
return 1 row
return to Login Page
return to Login Page
return to Login Page

Logout Failure Case 3: The logout process takes longer than 5 seconds.


UMManager
LogoutService
LogoutDAO
SQL Server 2019 Developer
Logout button is pressed
POST request
terminateSession()
String getToken()
LogoutDAO logoutDao = new LogoutDAO()
LogoutDAO()
return LogoutDAO instance
Bool logoutDao.deleteToken(string token)
DELETE FROM TokenTable WHERE hash = token
return 1 row
return 1 row
return Error: Error takes longer than 5 seconds
return Error: Error takes longer than 5 seconds
return Error: Error takes longer than 5 seconds