



# Beta Presentation

## Centralized Comment History Microservice

### The Capstone Experience

#### Team UWM

Brad Deaner

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Macaulay Dailey

Melvin Thomas III

William Arnold

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*From Students...  
...to Professionals*

Spring 2025

# Project Overview

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- Too tedious to look for specific comments
- Created comment database, stores all comments
- Users can search for desired comments given relevant permissions

# Team Member's Technical Tasks

## Technical Tasks Assigned

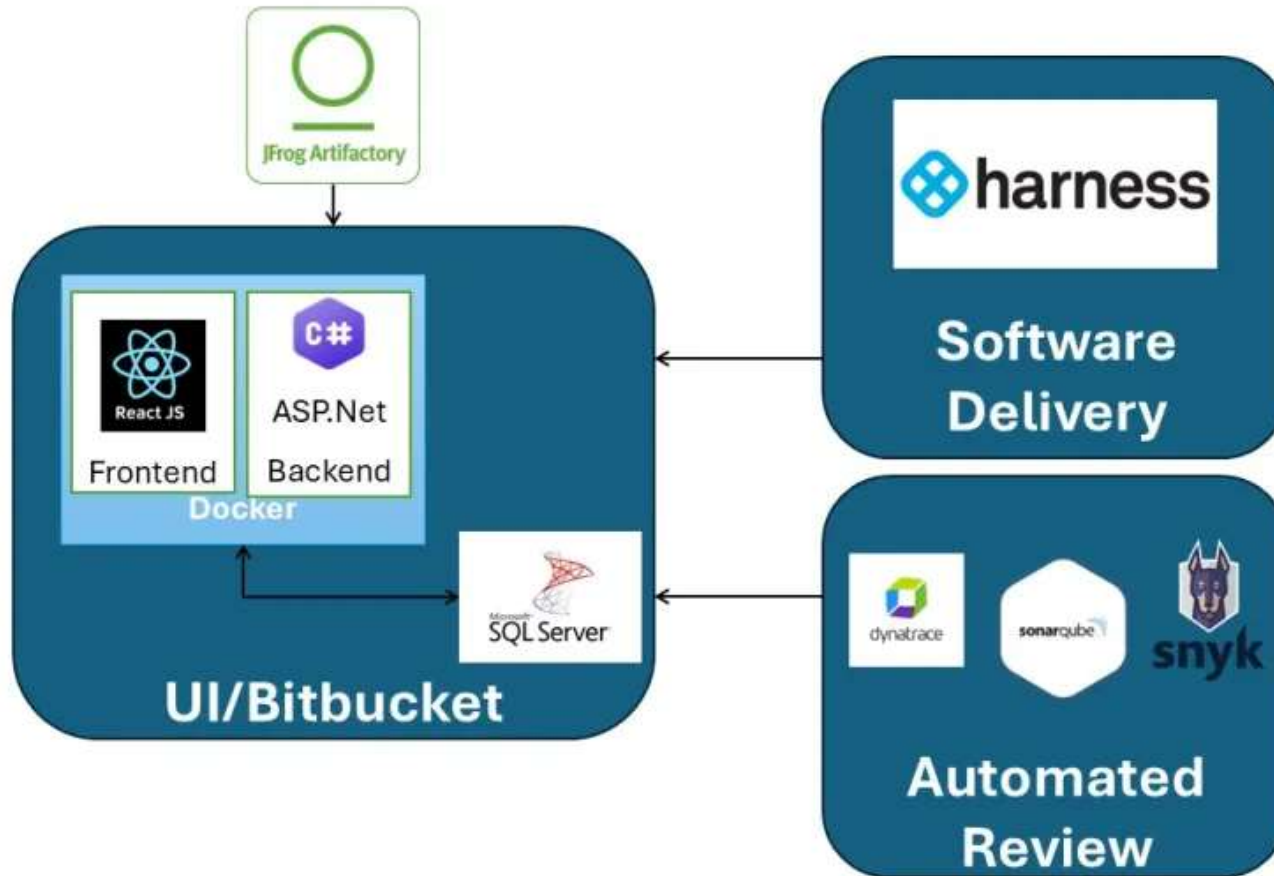
- William Arnold
  - Search API functionality in the frontend
  - Mass JavaScript to TypeScript conversion
  - Connection of CRUD functions from frontend to backend
- Alex Banker
  - Made login functionality
  - Made UI frontend
  - Made frontend CRUD functions
  - Frontend graph functionality
- Aaryan Walia
  - Database search functionality
  - Database permissions functionality
  - Comment history database script procedure
- Brad Deaner
  - Permissions based lockouts of certain textboxes
  - Sorting logic and buttons
  - Creation of APIs for project
  - Original controller creation
  - Creation of frontend class objects
- Melvin Thomas III
  - Created database tables
  - Created stored procedures for add and edit
  - Created permissions table
  - Multiple migrations for the database
- Macaulay Dailey
  - Backend connection for add and search functions
  - Backend connection for graph and permissions
  - Front and backend for comment history

## Technical Tasks Completed

- William Arnold
  - Search API functionality in the frontend
  - Mass JavaScript to TypeScript conversion
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  - Backend connection for graph and permissions
  - Front and backend for comment history



# System Architecture



# Search Comment

The screenshot displays the UWM Beta Presentation web application. The browser window shows the URL `localhost:3000`. The application features the UWM logo and the text "UNITED WHOLESALE MORTGAGE".

**Search Interface:**

- Lending:** A dropdown menu.
- Sam Smith:** Input fields for User ID and Return ID.
- Source System ID:** Input field.
- Comment Text:** Input field.
- Search:** A button to execute the search.

**Filters:**

- Sort Oldest Comments First:** A button.
- FILTER BY:** A section containing:
  - Search Loan Number:** Input field.
  - Jira Type:** Dropdown menu.
  - Date:** Dropdown menu.

**User Actions:**

- Guest:** A button with a user icon.
- Login:** A button.
- Logout:** A button.
- Register User:** A button.

**Search Results:**

- \*User ID:** Input field.
- \*Comment Text:** Input field.
- \*Comment Type:** Dropdown menu.
- \*Application Type:** Dropdown menu.
- \*Source System ID:** Input field.
- \*Comment Created Date:** Input field.
- Return ID:** Input field.
- Add:** A button.

**Comment List:**

- Sam Smith - 2025-02-25T00:00:00:** Applicant has stable employment.
  - Edit** **History** **Delete**
- Sam Smith - 2024-06-02T00:00:00:** Ineligible for a mortgage.
  - Edit** **History** **Delete**

# History Component

The screenshot displays a web application interface for UWM (United Wholesale Mortgage). The browser address bar shows 'localhost:3000'. The application features a header with the UWM logo and a navigation bar with 'Login', 'Logout', and 'Register User' buttons. A user profile for 'Alex B' is visible in the top right. The main content area is titled 'Sort Oldest Comments First' and includes a 'FILTER BY' section with a 'Search Loan Number' input and dropdowns for 'Jira Type' and 'Date'. The central 'History Component' is highlighted with a blue border and contains a list of application history items. The first item, 'Joshua Zhang - 2019-08-03T00:00:00', includes a description of the applicant's credit score, 'Edit' and 'History' buttons, and a 'Delete' button. The second item is partially visible below it.

UWM<sup>®</sup>  
UNITED WHOLESALE MORTGAGE

Sort Oldest Comments First

FILTER BY

Search Loan Number

Jira Type

Date

Jira

First Name Last Name User ID Return ID

Source System ID applicant Search

Alex B

Login

Logout

Register User


- **Joshua Zhang - 2019-08-03T00:00:00**  
Applicant has a solid credit score with a history of on-time payments, indicating reliable financial behavior.  
**Edit History**  
Applicant has a solid credit score with a history of on-time payments, indicating reliable financial behavior.  
9/5/2019, 12:00:00 AM  
**Delete**





# Add Comment

Vite + React + TS localhost:3000



UNITED WHOLESALE MORTGAGE

Sort Oldest  
Comments First

FILTER BY

Search Loan Number

Jira Type

Date

Lending

First Name	Last Name	User ID	Return ID
Source System ID	Comment Text	Search	

Alex B

Login

Logout

Register User

### Comments

Add a comment

Alex B	This company is in Pontiac,		
User			
Jira			
511514546545	4-02-2025	null	Add

- **Sam Smith** - 2025-02-25T00:00:00  
Applicant has stable employment.  
Edit History Delete
- **Jennifer Carmen** - 2019-10-15T00:00:00



# Edit Component

The screenshot shows a web application running on localhost:3000. The header features the UWM logo and the text 'UNITED WHOLESALE MORTGAGE'. On the left, there is a sidebar with a 'Sort Oldest Comments First' button and a 'FILTER BY' section containing a 'Search Loan Number' input, a 'Jira Type' dropdown, and a 'Date' dropdown. The main content area displays a table of applicants. A modal window is open, showing a list of applicants with their names, timestamps, and descriptions. The modal includes buttons for 'Edit', 'History', and 'Delete' for each applicant. The 'Edit' button for the first applicant, Sam Smith, is highlighted. The modal also includes a 'Save' button and a 'Cancel' button. The user 'Alex B' is logged in, as indicated by the top right corner.

UWM<sup>®</sup>  
UNITED WHOLESALE MORTGAGE

Sort Oldest  
Comments First

FILTER BY

Search Loan Number

Jira Type

Date

Bit Bucket

First Name Last Name User ID Return ID

Source System ID applicant Search

- **Sam Smith** - 2025-02-25T00:00:00  
Applicant has stable employment.  
Edit History Delete
- **Jennifer Carmen** - 2019-10-15T00:00:00  
Applicant to Save Cancel
- **Joshua Zhang** - 2019-08-03T00:00:00  
Applicant has a solid credit score with a history of on-time payments, indicating reliable financial behavior.  
Edit History

Alex B

Login

Logout

Register User



# What's left to do?

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- Stretch Goals
  - Dark mode
- Other Tasks
  - Code optimization
  - UI embellishment
  - General error debugging

# Questions?

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