ARTchive	Iteration 1
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1.0 Executive Summary

The ARTchive team implemented two core functional use cases for Iteration 1: Submit Registration and View Registration. The Submit Registration use case requires an SVSU User to enter data into an application form; the system then processes and stores that information in the database thus meeting the non-trivial use case requirement. The second use case, View Submission, then retrieves that data from the database and displays it for an administrator to review.
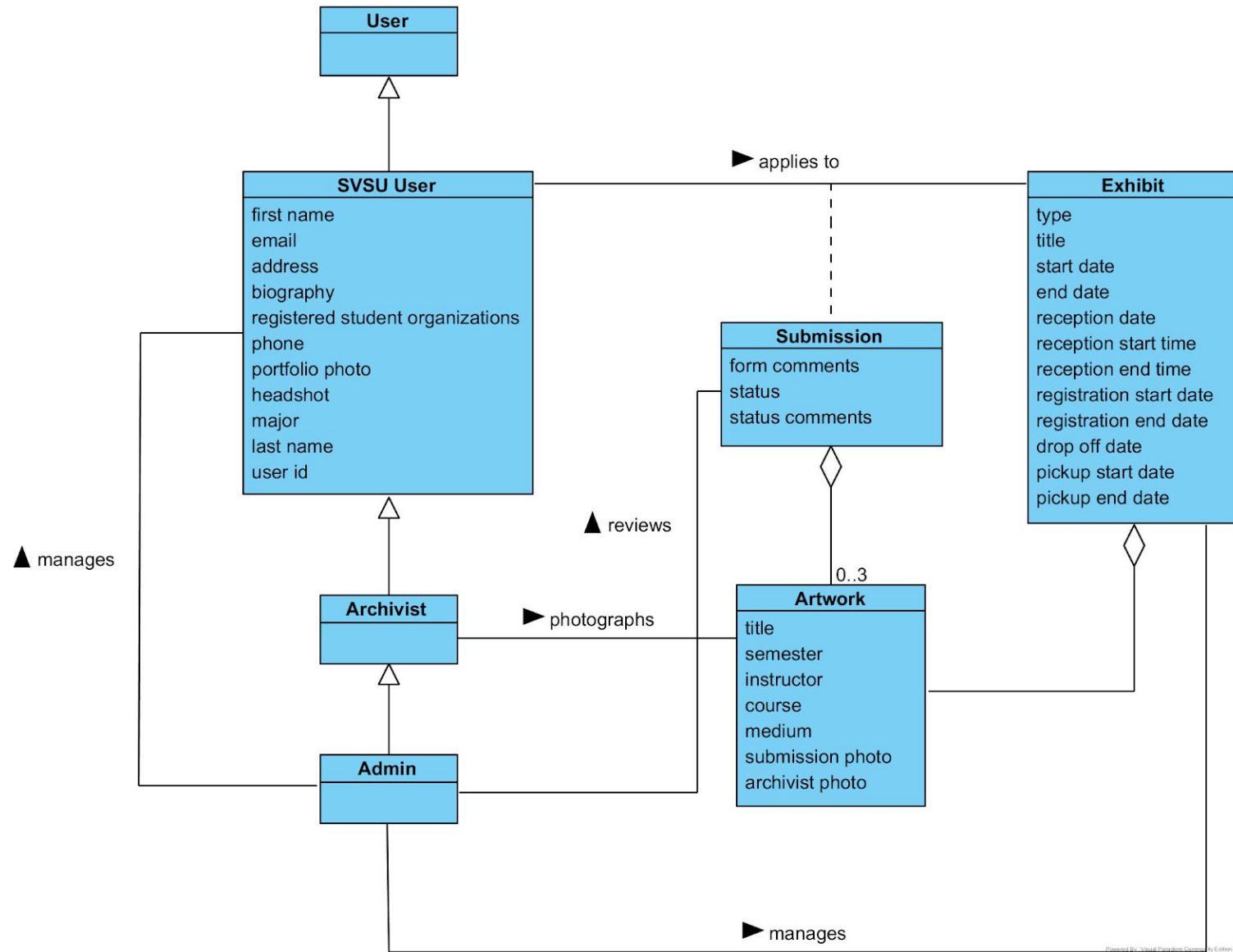
1.1 Business Role Clarification

Actor	Role
User	Anyone who views the website
SVSU User	Anyone with SVSU login privileges
Archivist	Uploads photos of artwork
Administrator (Admin)	Manages all accounts and site content

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2.0 Domain Model

3.0 High-Level Use Cases

UC1: View Submissions	
Actor	Admin
Priority	2
Preconditions	Admin is logged into the system (UC16). SVSU Users can submit a registration form (UC12).
This Use Case Begins With...	Admin clicks the "View" button to view corresponding exhibit submissions.
This Use Case Ends With...	Administrator is presented with a view of all individual submissions to the exhibit.

UC2: Accept SVSU User Submissions	
Actor	Admin
Priority	2
Preconditions	Admin is logged into the system (UC16). SVSU users can submit a registration form (UC12). Admin can view all student submissions to an exhibit (UC1).
This Use Case Begins With...	Administrator selects a submission.
This Use Case Ends With...	Administrator accepts the selected submission.

3.0 High-Level Use Cases (Continued)

UC3: Reject SVSU User Submissions	
Actor	Admin
Priority	2
Preconditions	Admin is logged into the system (UC16). SVSU User can submit a registration form (UC12). Admin can view all student submissions to an exhibit (UC1).
This Use Case Begins With...	Admin selects a submission.
This Use Case Ends With...	Admin rejects the selected submission.

UC4: Search for an SVSU user Submission	
Actor	Admin
Priority	2
Preconditions	Admin is logged into the system (UC16). SVSU users can submit a registration form (UC12). Admin can view all student submissions (UC1).
This Use Case Begins With...	Admin navigates to the submissions page.
This Use Case Ends With...	The submissions page is filtered via SVSU User specification.

3.0 High-Level Use Cases (Continued)

UC5: Create Exhibit Information	
Actor	Admin
Priority	6
Preconditions	Admin is logged into the system (UC16).
This Use Case Begins With...	Admin selects "Create" exhibit button.
This Use Case Ends With...	Exhibit is created and the administrator views a confirmation message.

UC6: Update Exhibit Information	
Actor	Admin
Priority	6
Preconditions	Admin is logged into the system (UC16).
This Use Case Begins With...	Admin selects "Update" exhibit button.
This Use Case Ends With...	Exhibit information is updated and the administrator views a confirmation message.

3.0 High-Level Use Cases (Continued)

UC7: Archive Exhibit Information	
Actor	Admin
Priority	6
Preconditions	Administrator is logged into the system (UC16).
This Use Case Begins With...	Administrator selects "Archive" exhibit button.
This Use Case Ends With...	Exhibit is archived and the administrator views a confirmation message.

UC8: Update SVSU User Content	
Actor	Admin
Priority	7
Preconditions	Admin is logged into the system (UC16). SVSU User can create a profile (UC14).
This Use Case Begins With...	Admin locates an SVSU User's profile and clicks the "send" button on an update form.
This Use Case Ends With...	Admin views a successful update message and is taken to the modified SVSU User page to view their changes.

3.0 High-Level Use Cases (Continued)

UC9: Manage SVSU User Roles	
Actor	Admin
Priority	9
Preconditions	Admin is logged into the system (UC16).
This Use Case Begins With...	Admin views the current status of an SVSU User.
This Use Case Ends With...	Admin is able to promote/demote an SVSU User to a different role: general SVSU User, Archivist, or Administrator.

UC10: Upload Photos	
Actor	Archivist
Priority	9
Preconditions	Admin is logged into the system (UC16). SVSU User can submit a registration form (UC12).
This Use Case Begins With...	Archivist selects a set of photos from their computer and clicks a button to upload the photos.
This Use Case Ends With...	Archivist views a confirmation that the photos were uploaded.

3.0 High-Level Use Cases (Continued)

UC11: View My Submissions	
Actor	SVSU User
Priority	4
Preconditions	SVSU User is logged into the system (UC16). SVSU Users can submit a registration form (UC12).
This Use Case Begins With...	SVSU User navigates to the record of their art submission.
This Use Case Ends With...	SVSU User views their art submissions.

UC12: Submit Registration	
Actor	SVSU User
Priority	1
Preconditions	SVSU User is logged into the system (UC16).
This Use Case Begins With...	SVSU User fills in the registration form and clicks the "submit" button.
This Use Case Ends With...	SVSU user views a successfully submitted message.

3.0 High-Level Use Cases (Continued)

UC13: View Submission Status	
Actor	SVSU User
Priority	4
Preconditions	SVSU User is logged into the system (UC16). SVSU User can submit a registration form (UC12).
This Use Case Begins With...	SVSU User navigates to a record of their art submission.
This Use Case Ends With...	SVSU User views the status of his/her submission (accepted, rejected, pending).

UC14: Create Profile	
Actor	SVSU User
Priority	1
Preconditions	SVSU User is logged into the system (UC16).
This Use Case Begins With...	SVSU User logs in for the first time.
This Use Case Ends With...	SVSU User views successful "your profile is created" message.

3.0 High-Level Use Cases (Continued)

UC15: Logout of Account	
Actor	SVSU User
Priority	2
Preconditions	SVSU User is logged into the system (UC16).
This Use Case Begins With...	SVSU User clicks the "logout" button.
This Use Case Ends With...	SVSU User views a successful logout message.

UC16: Login to Account	
Actor	SVSU User
Priority	2
Preconditions	N/A
This Use Case Begins With...	SVSU User enters credentials into the login screen.
This Use Case Ends With...	SVSU User views account dashboard after successful login.

3.0 High-Level Use Cases (Continued)

UC17: Manage Profile Information	
Actor	SVSU User
Priority	3
Preconditions	SVSU User is logged into the system (UC16).
This Use Case Begins With...	SVSU User navigates to an update my information page.
This Use Case Ends With...	SVSU User views an "update successful" message.

UC18: View SVSU User Profiles	
Actor	SVSU User
Priority	8
Preconditions	SVSU Users have created profiles (UC14).
This Use Case Begins With...	SVSU User clicks on another SVSU User's profile link.
This Use Case Ends With...	Selected SVSU User's public information can be viewed.

3.0 High-Level Use Cases (Continued)

UC19: Browse Exhibit	
Actor	User
Priority	4
Preconditions	Admin has created an exhibit (UC5).
This Use Case Begins With...	User selects an exhibit from the main screen.
This Use Case Ends With...	User views exhibit information and artwork.

UC20: Search for Artwork	
Actor	User
Priority	5
Preconditions	Archivist uploaded photos to the site (UC10).
This Use Case Begins With...	User enters genre, year, or artist into a search field.
This Use Case Ends With...	User views artwork that matches criteria.

3.0 High-Level Use Cases (Continued)

UC21: Assign Photo to Artist	
Actor	Admin
Priority	10
Preconditions	Archivist uploaded photos to the site (UC10).
This Use Case Begins With...	Archivist views a table of their uploaded photos from an exhibit.
This Use Case Ends With...	Archivist assigns the photo to an SVSU user.

4.0 Use Case Diagrams

4.1 Use Case Diagram: User System
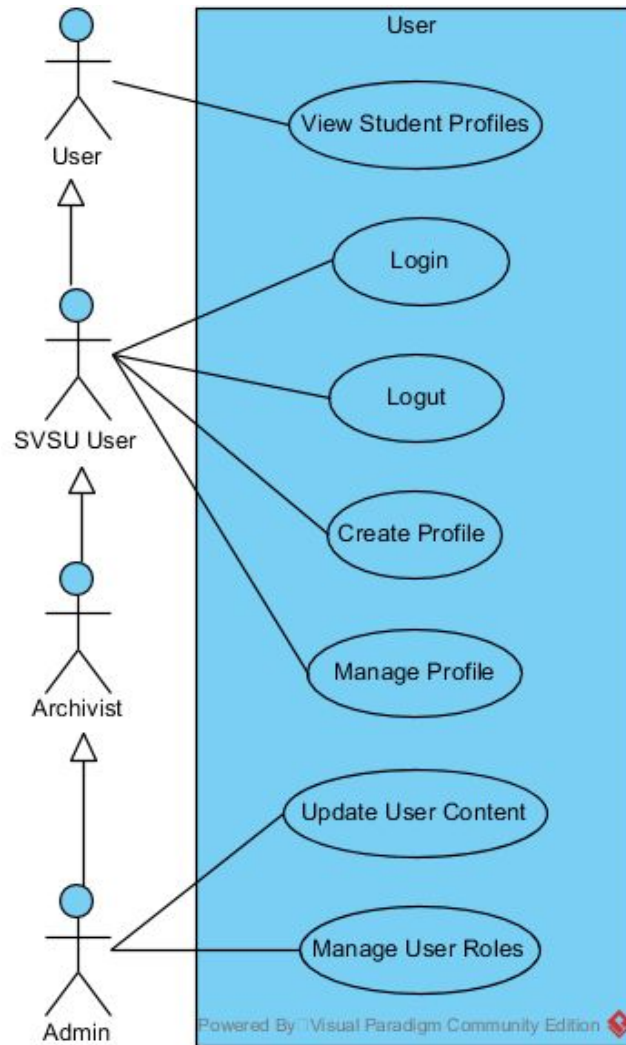
4.2 Use Case Diagram: Application System
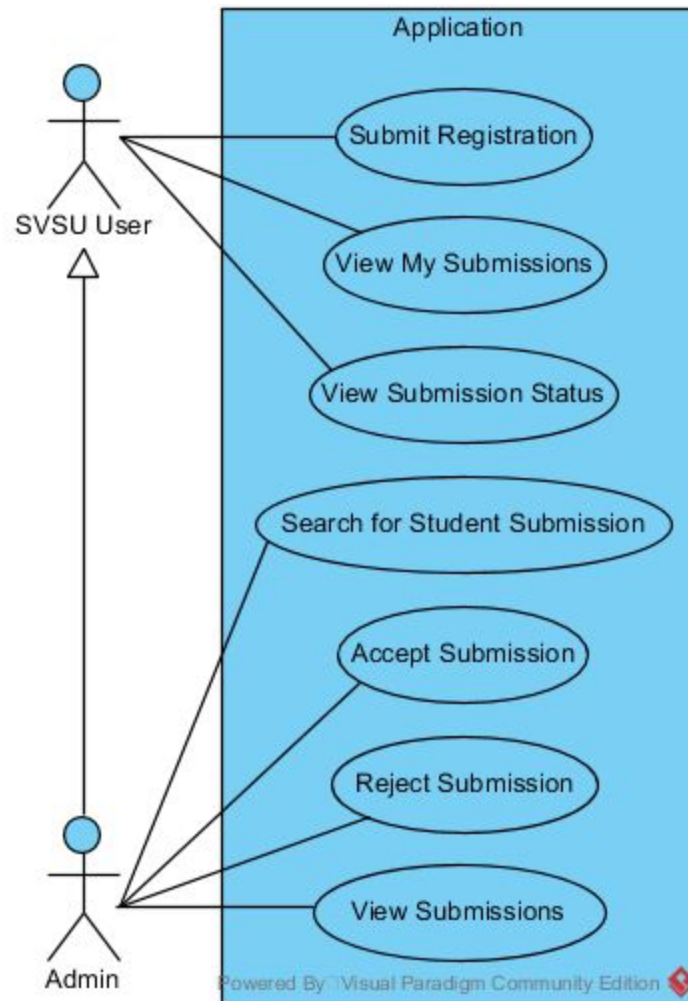
4.3 Use Case Diagram: Artwork System
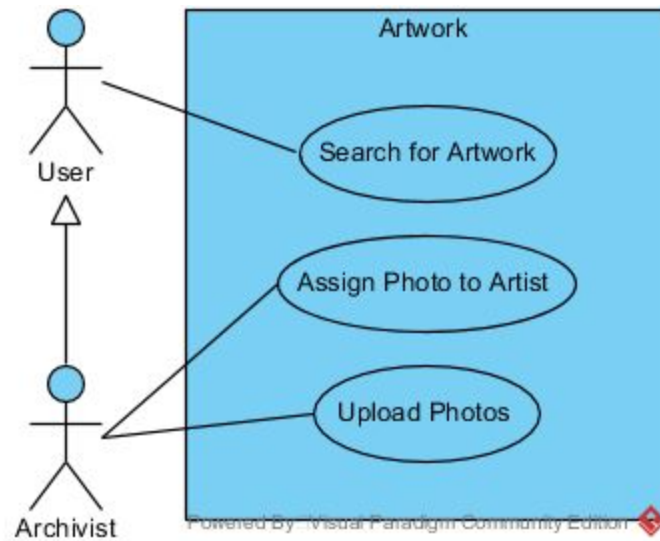
4.4 Use Case Diagram: Exhibit System
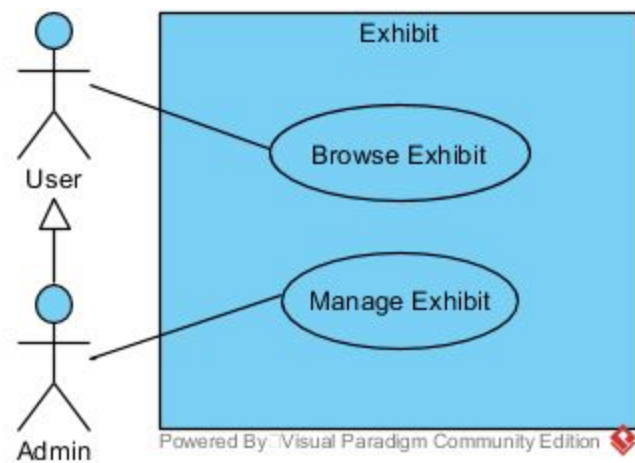
5.0 Iteration 1 Expanded Use Cases

UC: Submit Registration	
Actor: SVSU User	**System: Application**
	(0) System shows the Exhibit Application Overview page.
(1) TUCBW Student selects the "Register" button to apply to an exhibit.	(2) System shows the exhibit application form in a new window with empty input fields (*Figure 1, page 19*).
(3) Student inputs data into the form fields and clicks the "Submit" button.	(4) System displays success message.
(5) TUCEW Student sees that the registration is successfully submitted.	

UC: View Submissions	
Actor: Admin	**System: Application**
	(0) System shows the Exhibit Application Management page.
(1) TUCBW Admin clicks the "View" button to view corresponding exhibit submissions.	(2) System shows the View Submissions page (*Figure 2, page 20*).
(3) Admin views all user submissions for the exhibit.	

5.1 GUI Screenshot: *Submit Registration* Expanded Use Case

Figure 1: exhibit application form

5.2 GUI Screenshot: *View Submissions* Expanded Use Case

Figure 2: View Submissions page

6.0 Design Class Diagram

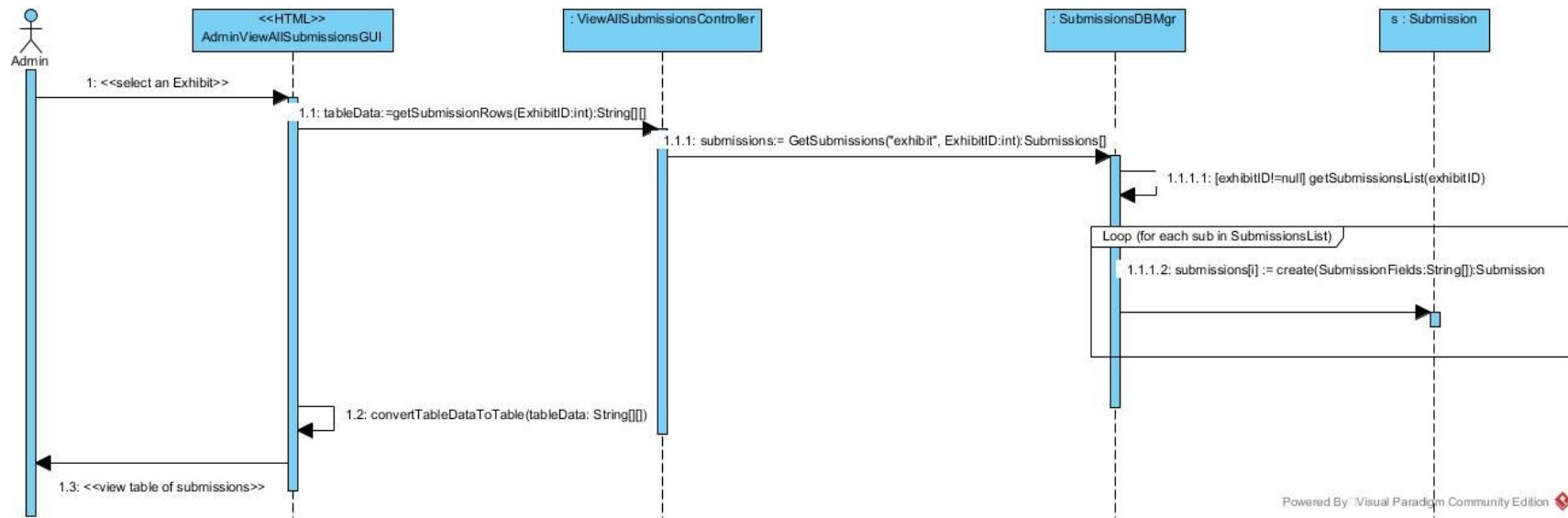# 7.0 Interaction Diagrams

7.1 Interaction Diagram: Submit Registration
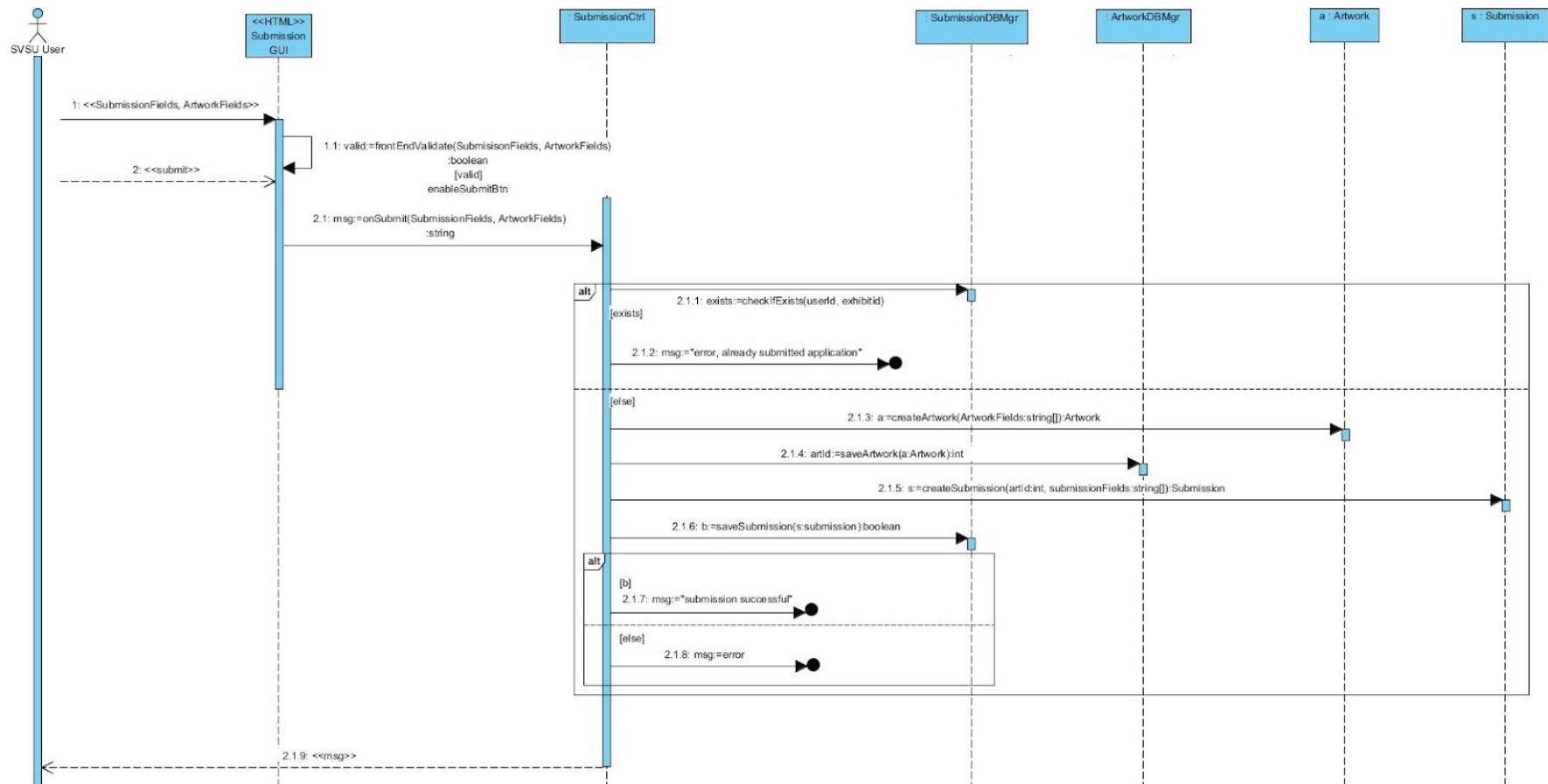
7.0 Interaction Diagrams (Continued)

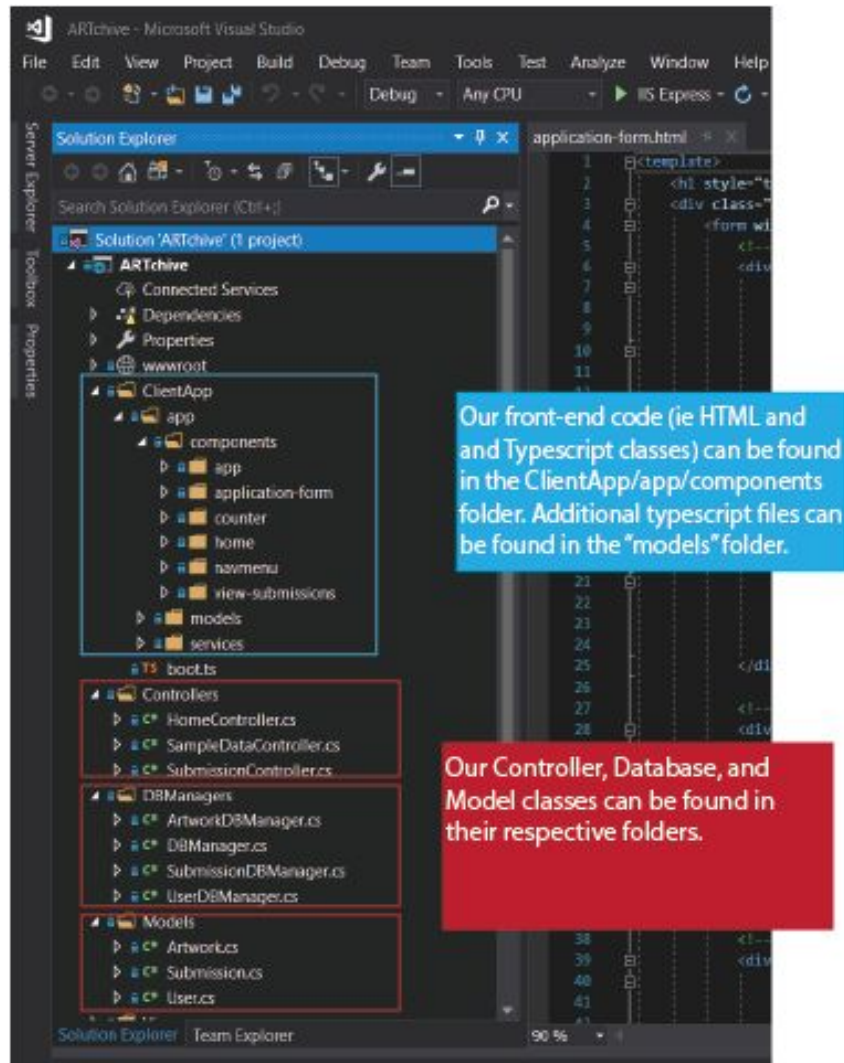## 7.2 Interaction Diagram: View Submissions

8.0 Platform Overview

We chose ASP.NET with the Aurelia framework as our frontend platform and our database storage solution is SQL Server. Below is a brief explanation of our file structure:

9.0 Execution Instructions

To execute the ARTchive project:

1. Locate the run/ARTchiveConnect/**ARTchiveConnect.bat** file and run it to connect to our database on the CSIS server using your SVSU credentials. You will be prompted for your **SVSU username and password** per the screenshots below.

2. Double-click on the solution file: **artchive/src/ARTchive.sln**.

3. Build and run the project in **Visual Studio**.

4. A browser window should pop up with our application.

```
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- ARTchiveConnect.bat  -
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Enter your SVSU Username: jcwarric

Connecting to 155.138.20.3 port 22
We claim version: SSH-2.0-PuTTY_Release_0.70
Server version: SSH-2.0-OpenSSH_6.7p1
Using SSH protocol version 2
```

```
Please use your SVSU Network ID and Password to login.

jcwarric@csis.svsu.edu's password:
Sent password
Access granted
Initiating key re-exchange (enabling delayed compression)
Opening session as main channel
Server supports delayed compression; will try this later
Doing ECDH key exchange with curve Curve25519 and hash SHA-256
Initialised AES-256 SDCTR client->server encryption
Initialised HMAC-SHA-256 client->server MAC algorithm
Initialised zlib (RFC1950) compression
Initialised AES-256 SDCTR server->client encryption
Initialised HMAC-SHA-256 server->client MAC algorithm
Initialised zlib (RFC1950) decompression
Opened main channel
Local port 127.0.0.1:1433 forwarding to 10.8.30.21:1433
Started a shell/command
```