



Final Presentation

Scrum Gang

Meet the Team

Josh Mangham: Scrum Master, Front End (GUI)

Brady Werling: Front End, Back End (Database)

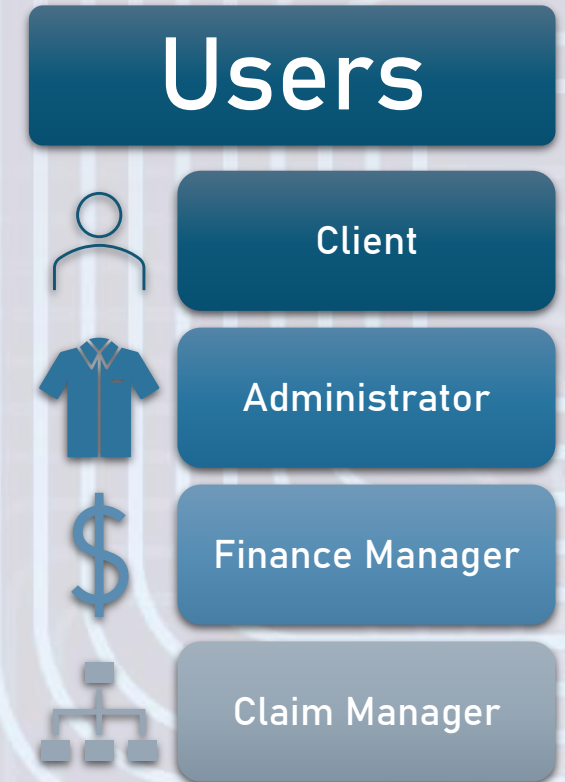
Jack Sibbitt: Front End, Back End

Keegan Jackson: Back End, Information Coordinator

Cross-Functional

Project Overview

- Insurance Claim Management System
 - An integrated end-to-end insurance claim management system.
- Basic Modules:
 - Claim Application
 - Claim Feedback
 - Unique IDs
 - Register Users
 - Document Storage
 - Document Transfer



Functional Requirements

Client

Login

Apply for a Claim

View Messages

Upload Documents

View/Edit Profile

View Claim Status

Download Claim Report

Claim Manager

Login

View Messages

Download Documents

View/Edit Profile

View Client Profile

Transfer Claim to Finance Manager

Finance Manager

Login

View Messages

Estimate Claim Amounts

View/Edit Profile

View Client Profile

Transfer Claim Amount to Client

Admin

Login

View all User Information

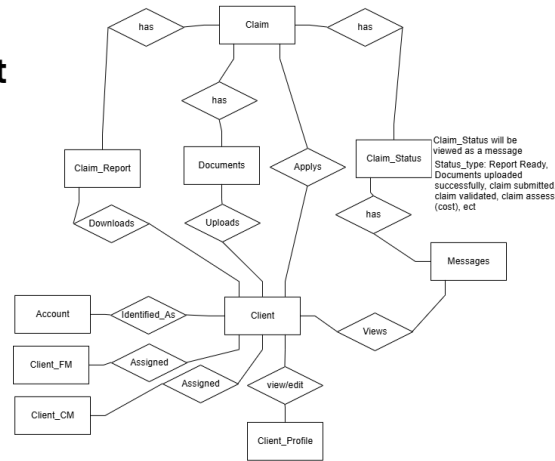
View User Information
by Date

Assign Roles

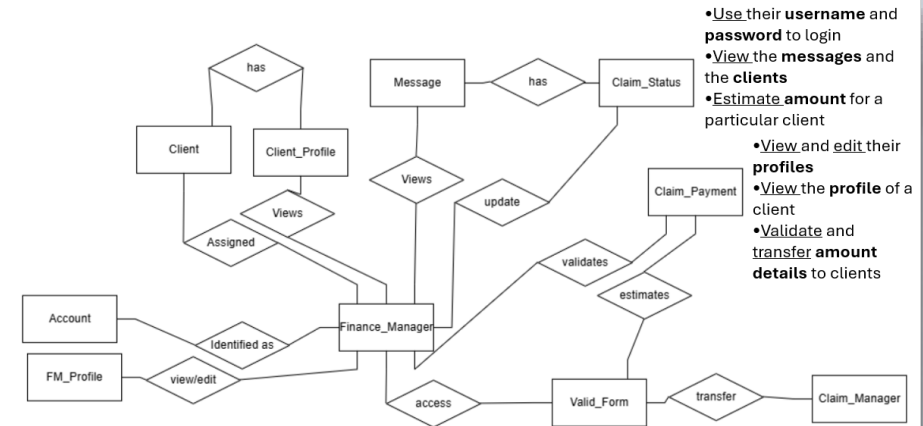
Modify User Details



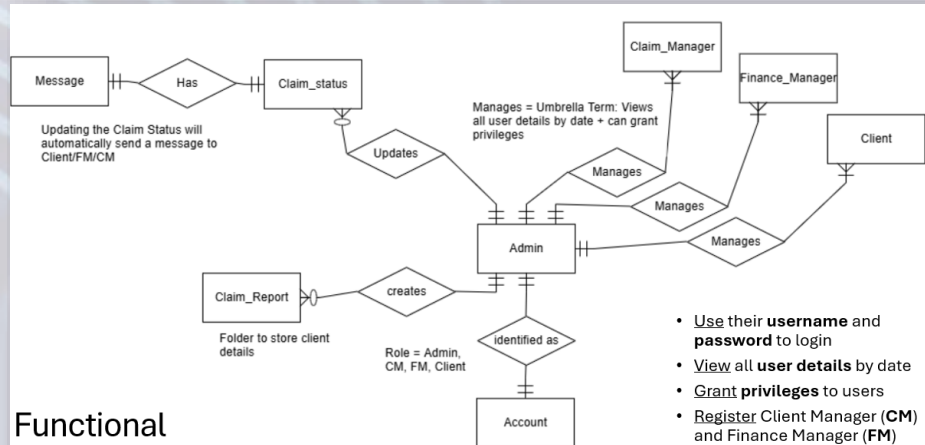
- Apply for a **claim**
- Use their **username** and **password** to login
- View the **messages** sent by CM, FM, Admin
- Upload scanned **documents**
- View/edit their **profiles**
- View current **status**
- Download their claim **reports**



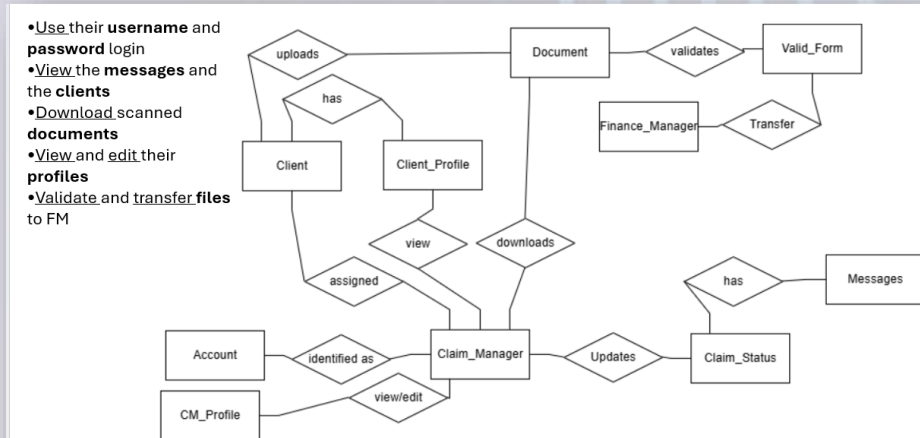
Functional Requirements: **Finance Manager (FM)**



Functional Requirements: Admin



Functional Requirements: **Claim Manager (CM)**





Project Timeline

Scrum Gang

Project Timeline



Sprint #0

- Project Selection
- Role Assignment
- User Stories
- Login Prototype
- Trello & GitHub



Sprint #1

- Login Function
- Create Account
- Forgot Password
- Error Messages
- DBeaver Setup



Sprint #2

- Styling Updated
- Database Design
- Insert & Select
- Landing Page
- Session Class



Form1

Welcome!
Please Log In

Username

Password

[Forgot Password?](#) [Create an Account](#)

Scrum Insurance Ltd.

Forgot Password [Back](#)

Enter Email:

Email not found

Scrum Insurance Ltd.

Welcome!
Please Log In

Username

Password

Incorrect username or password
Please make an account if you haven't already
[Forgot Password?](#) [Create an Account](#)

SCRUM INSURANCE

Please log in using your
SCRUM INSURANCE username and password

Username:

Password:

[Forgot Password?](#) [Create Account](#)

Forgot Password

Enter Email:

CLEAR ON INITIALIZE

Question

CLEAR ON INITIALIZE

New Password:

Sprint #3

Styling Updates

- Login Page
- Landing Page

New User Controls

- Dashboard
- Edit Profile
- Claim Viewer

Database

- Full Redesign
- Naming Rules

The image displays three mockups of the SCRUM Insurance web application interface. The top mockup shows a navigation bar with the SCRUM Insurance logo and links to Account, Support, Inbox, and Settings. Below the navigation bar are two panels: 'Edit Profile' and 'Viewing Claim'. The 'Edit Profile' panel contains form fields for Username, Password, Email, First Name, Last Name, and Date of Birth, along with a 'Change Picture' button. The 'Viewing Claim' panel displays client information (John Smith), claim status (Pending), claim date (1/12/25), and claim amount (0), along with a description of the claim and buttons for 'Return', 'Approve', and 'Reject'. The bottom mockup shows a 'Welcome, Manager' message, a 'Current Claim' section with 'None' status and buttons for 'Edit', 'Update Claim', and 'Contact Admin', a 'No Claims' section with a 'View Claims' button, and a 'My Information' section with fields for Name, Primary Email, Secondary Email, Home Phone, Work Phone, and Mailing Address. The rightmost mockup shows the login page with the SCRUM INSURANCE logo, a login prompt, and fields for Username and Password, along with a 'Log In' button and links for 'Forgot Password?' and 'Create Account'.

SCRUM Insurance

Account Support Inbox Settings

Edit Profile

Set Username:

Set Password: ☐ Show Password

Set Email:

First Name:

Last Name:

Date of Birth: Cleared on Initialize

Viewing Claim

Client Name: John Smith

Claim Status: Pending

Claim Date: 1/12/25

Claim Amount: 0

Applicant has taken major damage by falling of a unicycle. Left femur requires intense surgery.

Welcome, Manager

Here is where you put a brief description of what the client can do on this page or other important account information.
This should also include the status of: claim one, claim two, claim three, claim four

Current Claim

None

Date:

Status:

No Claims

My Information

Name: None

Primary Email: None

Secondary Email: None

Home Phone: None

Work Phone: None

Mailing Address: None

SCRUM INSURANCE

Please log in using your
SCRUM INSURANCE username and password

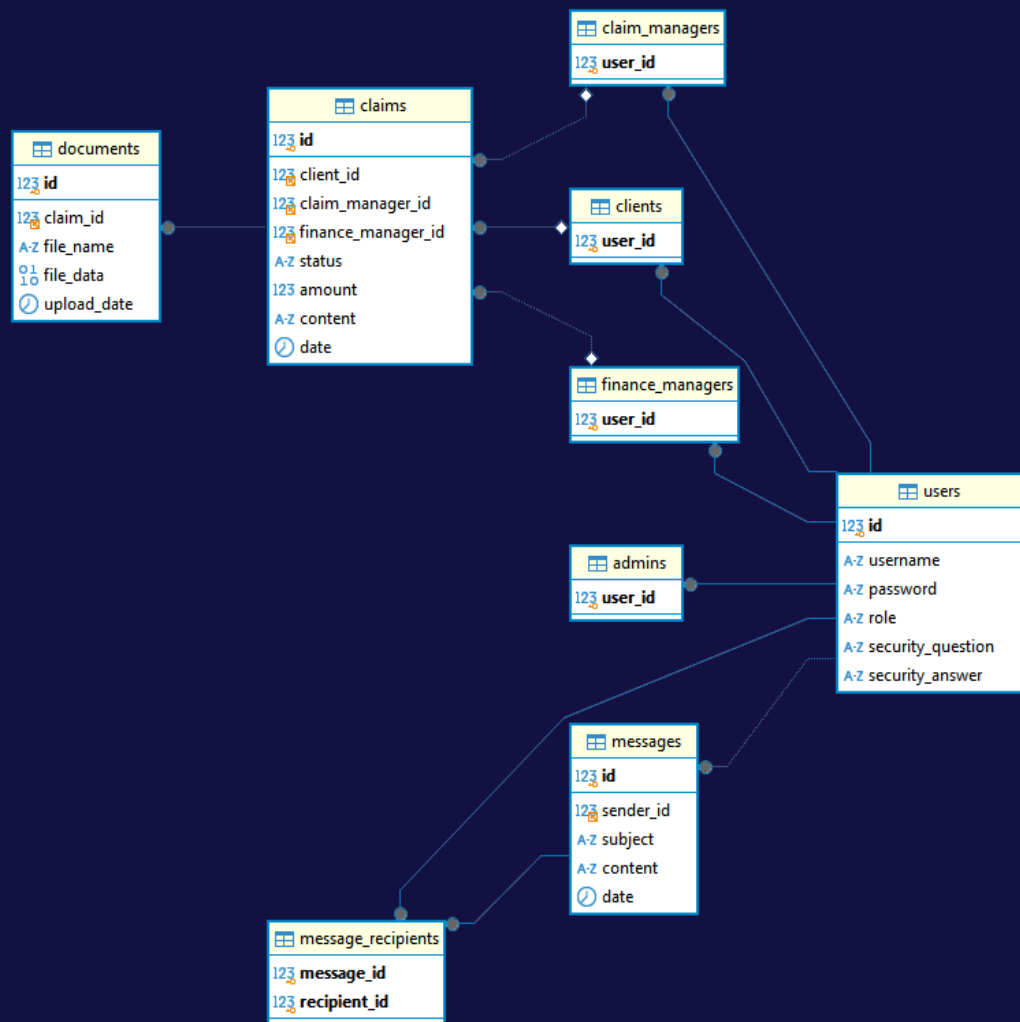
Username:

Password:

[Forgot Password?](#) [Create Account](#)



Database



Claims Table

Column Name	#	Data Type	Not Null	Auto Increment
id	1	int(10) unsigned	[v]	[v]
client_id	2	int(10) unsigned	[]	[]
claim_manager_id	3	int(10) unsigned	[]	[]
finance_manager_id	4	int(10) unsigned	[]	[]
status	5	enum('Pending','Financing','Approved','Rejected')	[]	[]
amount	6	int(10) unsigned	[]	[]
content	7	text	[]	[]
date	8	datetime	[v]	[]

Documents Table

Column Name	#	Data Type	Not Null	Auto Increment
id	1	int(10) unsigned	[v]	[v]
claim_id	2	int(10) unsigned	[v]	[]
file_name	3	varchar(260)	[v]	[]
file_data	4	longblob	[v]	[]
upload_date	5	datetime	[v]	[]

User Table

Column Name	#	Data Type	Not Null	Auto Increment
id	1	int(10) unsigned	[v]	[v]
username	2	varchar(20)	[v]	[]
password	3	varchar(20)	[v]	[]
role	4	varchar(50)	[v]	[]
security_question	5	varchar(255)	[v]	[]
security_answer	6	varchar(255)	[v]	[]

Sprint #4



Forgot Password

Username
bwerling

How?
Yes

New Password
Password123#

Confirm Password
Password123#

Enter

[Back to Login](#)

Restyling

- Vector Art Background
- Recolored and resized

Database

- Security (config.json file)
- User Supertype Table
- Custom C# Classes

New Functionality

- Claim Application
- Document Upload
- Message Viewer
- Claim Viewer
- Password Requirements

Queries

- Abstract Query Class
- Select and Insert

Claim Application

Documents

- Injury Form.docx
- Proof of Insurance.docx
- Insurance_filing.pdf

Browse Files

Enter Claim Overview

Car crash caused major damage to the applicant's left knee. They had surgery at H. Holmes Clinic by Doctor Robert H. Holmes. Applicant seeks full coverage after co-pay.

Submit

Sprint #5

Refactoring

- Dynamic Panels
- Dashboard/Footer

New Functionality

- Form Download
- Send Message
- View User Grid
- Edit Roles
- Claim Transfer
- Homepage Info

Queries

- Last Inserted ID
- Nullable Return
- Minimize Data
- Object Lists
- Custom Delete

Feedback

- Response Text
- Show DB Errors

Enter Username: Select Role:

id	username	password	role	security_question	security_answer
1	bweeling	Password123	client	How?	Yes
2	admin	@Qmin123	admin	How?	Yes
3	omanager	B3cttP@ssword	claim_manager	How?	Yes
4	bweelingm	B3B@ssword	finance_manager	How?	Yes
5	johmagrum	Ml@grum5000	client	What is your father's m...	None
6	keeganjack	Jl@ckson1	client	In what city were you ...	Alron
7	frnager2	B3B@ssword	finance_manager	How?	Yes
13	bweeling2	Password54#	claim_manager	How to win?	Yes
14	bweeling500	Password500	admin	In what city were you ...	Madagascar
19	scumlova	Security23	client	What was the name of ...	Scummy

Edit

Edit Profile

Select Role:

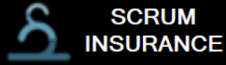
- Client
- Admin
- Claim Manager
- Finance Manager
- Client

.....

Submit

Sprint #5






Username

keegan1

Password

••••••



Database connection failed

Log In

Forgot Password?

Create Account

Scrum Insurance Ltd.

HomeAccountInboxClaims

keeganjackLog Out

Welcome, Client keeganjack

View status of claims, list of all claims, and recent messages from insurance employees.

Recent Claim

None

0 Claims

New Claim

Messages

Scrum Insurance®

Claim Application

Documents

CH106 Titration Curves datashe...

Browse Files

Enter Claim Overview

Subject: Compensation Request for Chemical Burn Incident During Titration Lab

I am writing to formally request compensation for an injury I sustained during a titration lab). During the experiment, I experienced a chemical

Submit

Scrum Insurance Ltd.

HomeAccountInboxClaims

keeganjackLog Out

Welcome, Client keeganjack

View status of claims, list of all claims, and recent messages from insurance employees.

Recent Claim

ID 22

4/27/2025 11:33:05 PM

Pending

Message CM

View

1 Claim

New Claim

Messages

Scrum Insurance®

5	22	6	3	[NULL]	Pending	[NULL]	Subject: Compensation Request for Chemical Burn Incider 2025-04-27 23:33:05
---	----	---	---	--------	---------	--------	---

Sender: keeganjack

Subject: Review Request

Date: 4/27/2025 11:08:14

View

Sender: keeganjack

Subject: Claim Status

Date: 4/27/2025 11:33:05

View

Sender: keeganjack

Subject: Claim Status

Date: 4/27/2025 11:33:05

View

Sender: keeganjack

Subject: Claim Status

Date: 4/27/2025 11:33:05

View

Claim Status

Sender: keeganjack

Claim ID: 22

Contents:

Subject: Follow-Up on Claim Review Request

To Whom it May Concern

I hope this message finds you well. I am writing to follow up on my claim regarding the chemical burn I sustained during a titration lab, which I submitted on 4/17/2025. I wanted to kindly check on the status of the review

Scrum Insurance Ltd.

HomeAccountInboxClaims

keeganjackLog Out

Search User

Search User

Username: keeganjack

Role: client

Select

Username: admin

Role: admin

Select

Username: manager

Role: claim_manager

Select

Username: keeganjack

Role: finance_manager

Select

Username: keeganjack

Role: client

Select

Username: manager2

Role: finance_manager

Select

Subject: Up on Claim Review Request

4/27/2025

Send To: manager

Contents:

Subject: Follow-Up on Claim Review Request

Dear SCRUM GANG

I hope this message finds you well. I am writing to follow up on my claim regarding the chemical burn I sustained during a titration lab, which I submitted on 4-25-25. I wanted to kindly check on the status of the review process and inquire if there's any additional information or documentation you may require from my side to assist in resolving this matter.

I appreciate your attention to this claim and look forward to any updates you can provide at your earliest convenience. Thank you for your time and understanding.

Sincerely, A loyal Customer

Send Message

Claim Viewer

View Documents

Client Profile

Client Name: keeganjack

Claim Date: 4/27/2025

Claim Status: Pending

Claim Amount: Not assigned

Subject: Compensation Request for Chemical Burn Incident During Titration Lab

I am writing to formally request compensation for an injury I sustained during a titration lab). During the experiment, I experienced a chemical burn due to exposure to acid/alkali spill. Despite adhering to all safety protocols provided, the incident occurred and caused [brief description of the injury, e.g., second-degree burns on my hand, requiring medical treatment].

This incident has resulted in [effects, e.g., physical pain, medical

Return

Approve

Reject

Claims List

ID: 22


Status: Pending

Date: 4/27/2025 11:33:05 PM

View

DEMO

Scrum Insurance Ltd.

**SCRUM
INSURANCE**

Username

Password

[Forgot Password?](#) [Create Account](#)



Scrum Insurance Ltd.

Home

Account

Inbox

Claims

bwerling
Log Out

Welcome, Client bwerling

View status of claims, list of all claims, and recent messages from insurance employees.

Recent Claim

ID 20

2025/04/27 20:30:55

Financing

Message FM

Message CM

View

3 Claims

New Claim

Messages

Scrum Insurance®

>

ENG

0:47

月曜日

2025/04/28

Conclusion

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Conclusion

Did we meet our goals?



Client:

- ☒ Apply for a claim
- ☒ User their username and password to login
- ☒ View the messages sent by CM, FM, and Admin
- ☒ Upload scanned documents
- ☒ View/Edit Profiles
- ☒ View current Status
- ☐ Download their claim reports

Administrator:

- ☒ Use their username and password to login
- ☒ View all user details by date
- ☒ Grant privileges to users
- ☒ Register Client Manager & Finance Manager
- ☐ Create a claim report for each client to store their details

Finance Manager:

- ☒ Use their username and password to login
- ☒ View /Send messages
- ☒ Estimate claim amount for a particular client
- ☒ View and edit their profile
- ☒ View the profile of a client
- ☒ Validate and transfer amount details to clients

Claim Manager

- ☒ Use their username and password to login
- ☒ View /Send messages
- ☒ Download scanned documents
- ☒ View and edit their profile
- ☒ View the profile of a client
- ☒ Validate and transfer files to FM

Conclusion

How did the project go?

- Overall Evaluation: **Good**
- The team gained significant knowledge and experience throughout the project
- Many of us had little no experience with Git, C#, Visual Studio, and the agile methodology
- Exposure to a semi-realistic SE working environment
- Both individual coding skills and collaborative teamwork abilities improved
- A substantial portion of user stories were accomplished, leading to a functional product

Conclusion

Scrum Thoughts?

- Scrum facilitated communication of the work process
- Scrum meetings helped us learn each other's strengths
- Sprint retrospectives were the only part of Scrum that we felt unsure about
- Trello board notes felt great to put into the 'Done' pile
- The iterative process lends itself to increasing team productivity

Conclusion

What would we do differently?



- Established a better communication system at the start of the project
- Dedicate more time outside of class for collaborative efforts towards the project
- Spend less time on Retrospectives
- Improve communication in sharing individual work progress

Future Directions

- Generating Claim Reports for Clients
- Add A Message Sent Notification
- Flesh out the program
 - Add more user and claim details
 - Improve GUI
- Continue to Refactor and Clean Code



Questions?

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