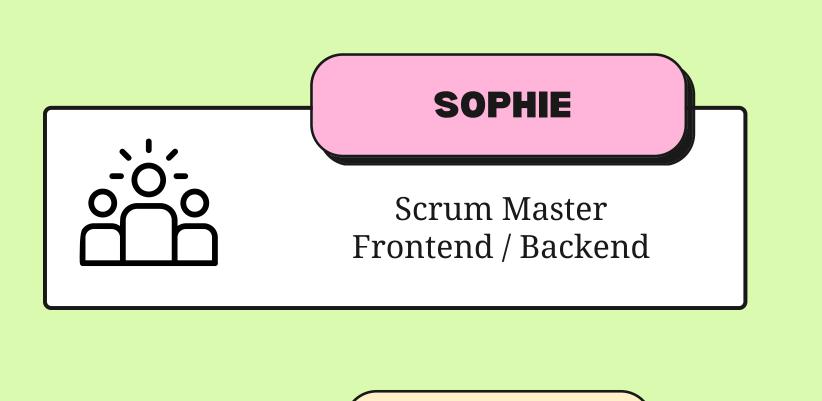
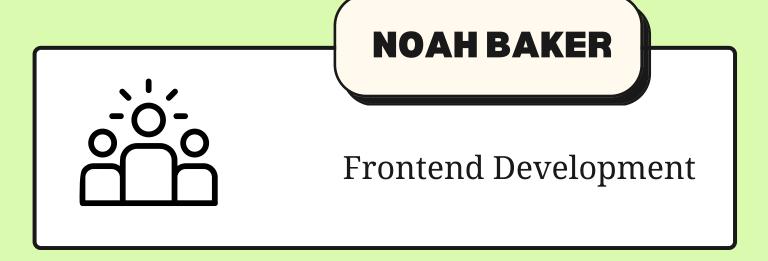
# SPRINT 6 BUDS

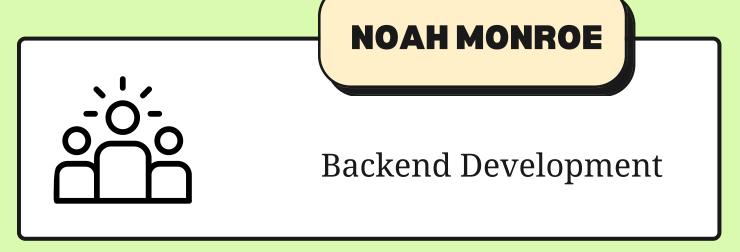


Workflow Management System

## TEAM ROLES









### PROJECT OVERVIEW

Our objective with this project was to design a Workflow Management System to manage the incoming and outgoing products of each department and generate reports accordingly.

#### Primary Product Functionality:

- **Registration** provide users with unique login information with appropriate role functionality
- Stock Management the flow of Raw Materials
- **Product Management** creating new products from Raw Materials
- *Quality Analysis* monitoring the quality of all manufactured products
- **Delivery Management** identifying quality products and sending products to sales
- *Report Generation* allow data/ tables to be exported from application for external use

```
mucts: storeProducts
   React.Fragment>
      <div className="py-5">
           <div className="cor</pre>
               <Title name="our
               <div className=</pre>
                   <ProductCon</pre>
                         (value
                   </ProductCo
                   </div>
               </div>
```

## AGILE METHODOLOGY

#### What is Scrum?

• Scrum is an agile process that allows us to focus on delivering the highest business value in the shortest time

#### Parts of Scrum:

- The Product Owner negotiates priorities with the team
- The Scrum Master helps facilitate and focuses on the process itself
- Team members self-organize to determine the best way to deliver the highest priority features

#### How have we implemented Scrum?

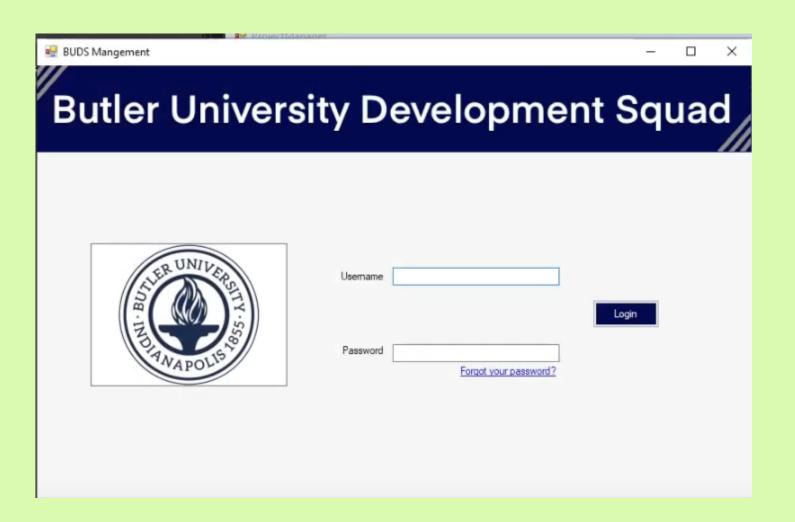
- We continually test our software with real inputs, called *dynamic* testing, and deliver working demos every sprint
- Dynamic testing helps us "fail" quickly so we know what will work for us as a team and what will not

## PROJECT GROWTH

#### Sprint 1 and Sprint 2 -

#### Prioritized Goals:

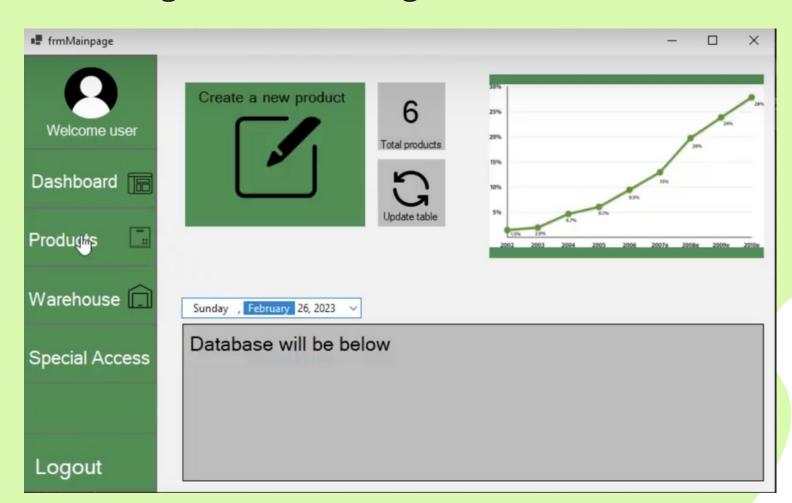
- Create GUI
- Set up and connect the Backend database
- Began implementing login functionality through special access



#### Sprint 3 -

#### Prioritized Goals:

- Create Raw Material and Product tables
- Establish different roles and what can be viewed/ edited
- Got into Stock Management and Product Management (adding)

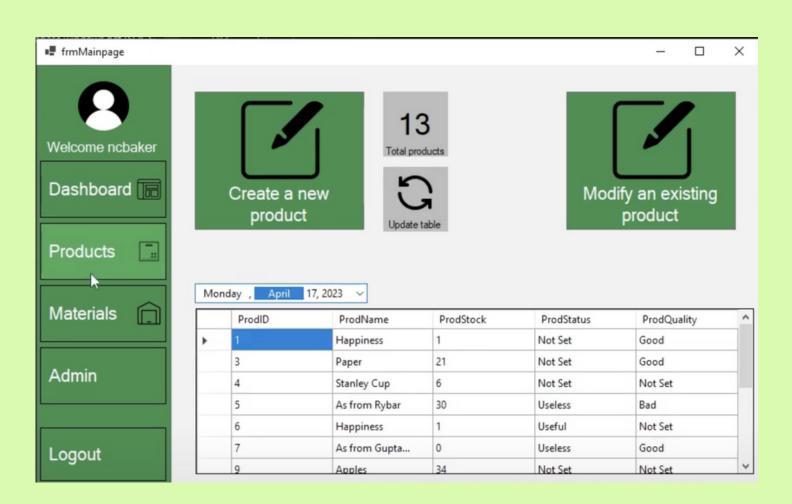


## PROJECT GROWTH

#### Sprint 4 -

#### Prioritized Goals:

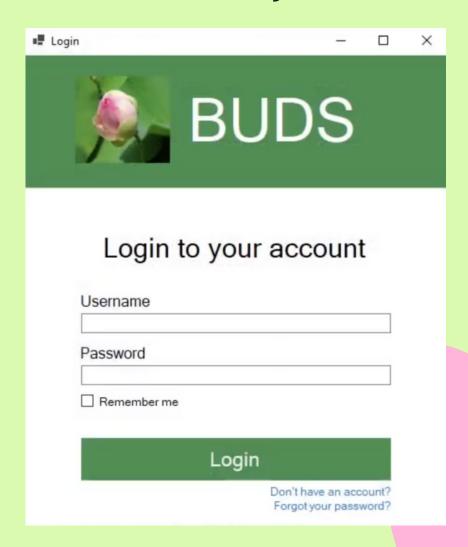
- Continued to work on roles for separate access
- Adding verification to all aspects of user login, creation, and deletion
- Finished fleshing out Stock Management and Product Management (update/ delete)



#### Sprint 5 -

#### **Prioritized Goals:**

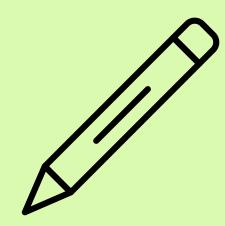
- Refine GUI and catch bugs
- Create and streamline interactions between Products and Raw Materials tables
- Introduce Dashboard (GUI) and Report Generation Functionality



# FINAL SPRINT GOALS

Work to finish debugging the application





Implement final changes to GUI (resizing)

Update and refine roles and give specific access for each role

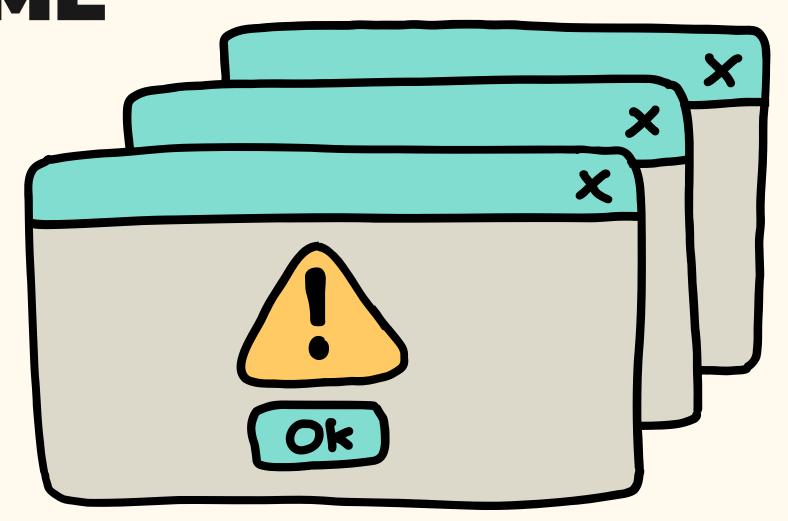


## DEMO

https://youtu.be/\_y\_5\_q7H81I

CHALLENGES OVER TIME

- GitHub (Pushing, pulling, and merging)
- Linking Azure Remote Database to C# application
- Data Validation / Error Handling
- Working with new packages in VS (SqlConnection and XLWorkbook)
- Resizing and refining GUI



## CONCLUSION

Biggest takeaways from this semester:

- Agile methodology The art of doing twice the work in half the time
  - As a group we were able to distribute goals to accomplish evenly
  - We were able to work outside of our predefined roles (back-end -> front-end)
- Working as a team is a lot better than doing everything alone
- Happiness is a key factor in successful teams
  - Weekly check-ins to make sure everyone is ready to take on next week's goals
  - Retrospectives to try and see what challenges affected our ability to achieve sprint goals
- Visual Studio is a great resource for simplified software development



# QUESTIONS?

