

Project Abstract

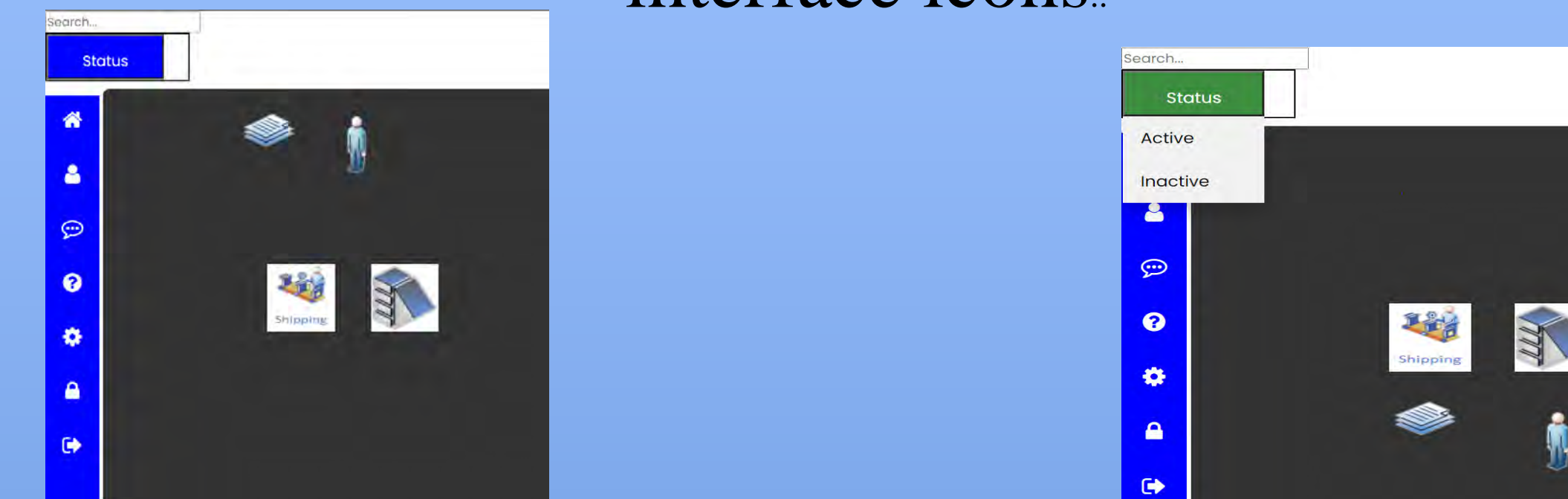
The software uses Microsoft Dynamics Business Central (BC) Cloud version targeting the Commercial Print industry with a specific focus on creating two value add components built on to the platform. These components include:

- Quote Configurator that allows a non-sophisticated user to create a quote for a Customer request
- Job Scheduler that allows the Operations Manager to adjust the production schedule as Jobs come in with varying level of urgency and profitability

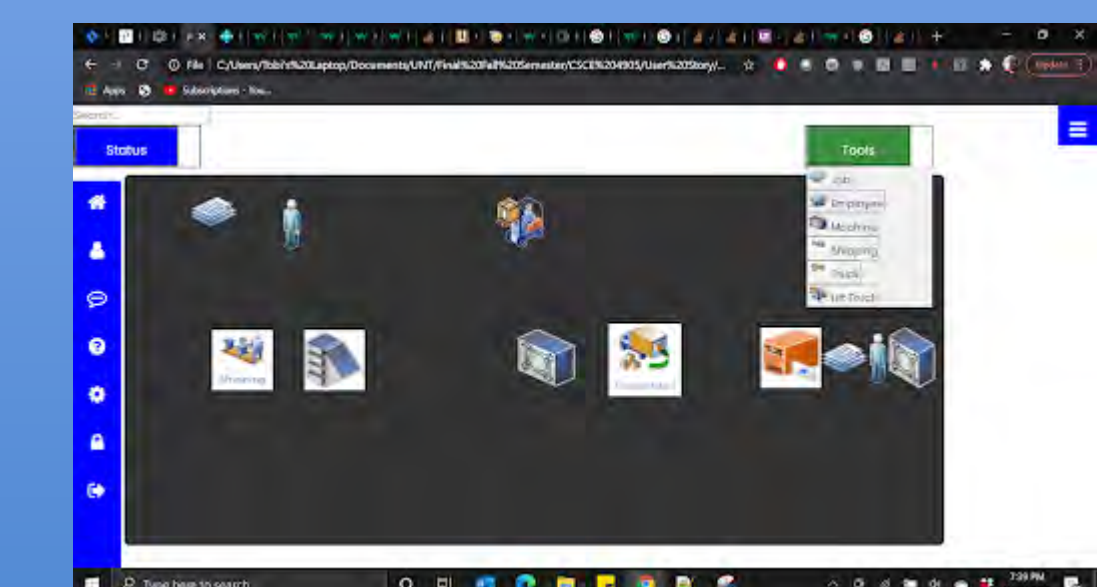
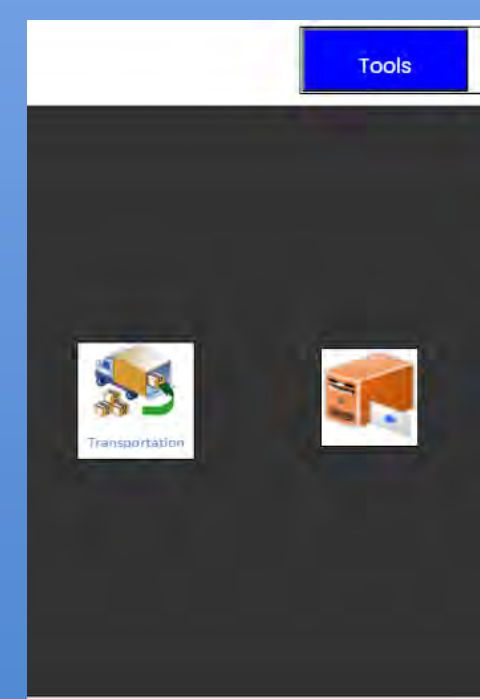
The team will enhance the Assembly process for Business Central and improve the Jobs process by adding a Scheduling and a re-scheduling capability. The Jobs functionality is extensive and highly complex so the goal is to simplify the process and create a capability tailored to the Print Industry. The Dynamics BC Framework is innovative and will definitely help improve the Jobs process for JPS Graphics.

System Design:

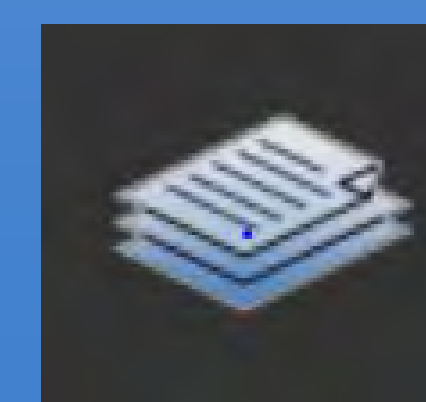
Drag n' Drop: Icons can be selected and dragged across the interface. Jobs, employees and machines can be arranged to represent warehouse layout and work shift movement. The image to the left shows the interface in its default state while the image on the right displays the movement of the interface icons.



Add icon to dashboard: Feature enables the user to add icons onto the interface. Image on the left is the interface in its default state while the image on the right shows multiple images being added onto the screen.



Display Jobs: When a user selects the jobs icon listed below. A job ticket popup will display on the screen with information specific regarding the details and specifications for the product to be developed.



Future improvements/revisions:

Some future improvements/revisions which are planned is to have users be able to sign into the job scheduler and see their tasks and jobs. We are working on improving the functionality to include our Dynamics 365 BC database into the scheduler so that we can easily add tasks, jobs, and other information to the system. This will make any future improvements or revision easy to do when we just change the database's information.

Challenges and Experience gained:

- Getting everyone together is the biggest challenge. We overcame this by notifying each other and also recording the meetings to get other members caught up. Notes were also taken and written after each meeting to also help.
- Learning more about HTML, SQL, Javascript has also been challenging, but we overcame this by studying the language and doing research. We later learned how HTML interacts with both SQL and JS on its own.
- Dynamics 365 BC has lots of technical features which made it challenging to learn. We learned more about the features and permissions to be able to access the features we need to work on the project.

Work still to complete:

Currently we are still working on certain functions on the project such as, the ability to see remaining job task time as well as where in the process, and the status of the jobs and tasks. We are also looking to implement the ability to drag job tasks onto machine to schedule sed jobs, as well as working on task movement on our software for each machine. We also are looking to a add a refresh ability while also adding a filter system which will display certain machines based on what jobs they can complete. Finally, we're looking to add a system to allow us to pull jobs from a job stack for ease of use for putting jobs to machines.

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