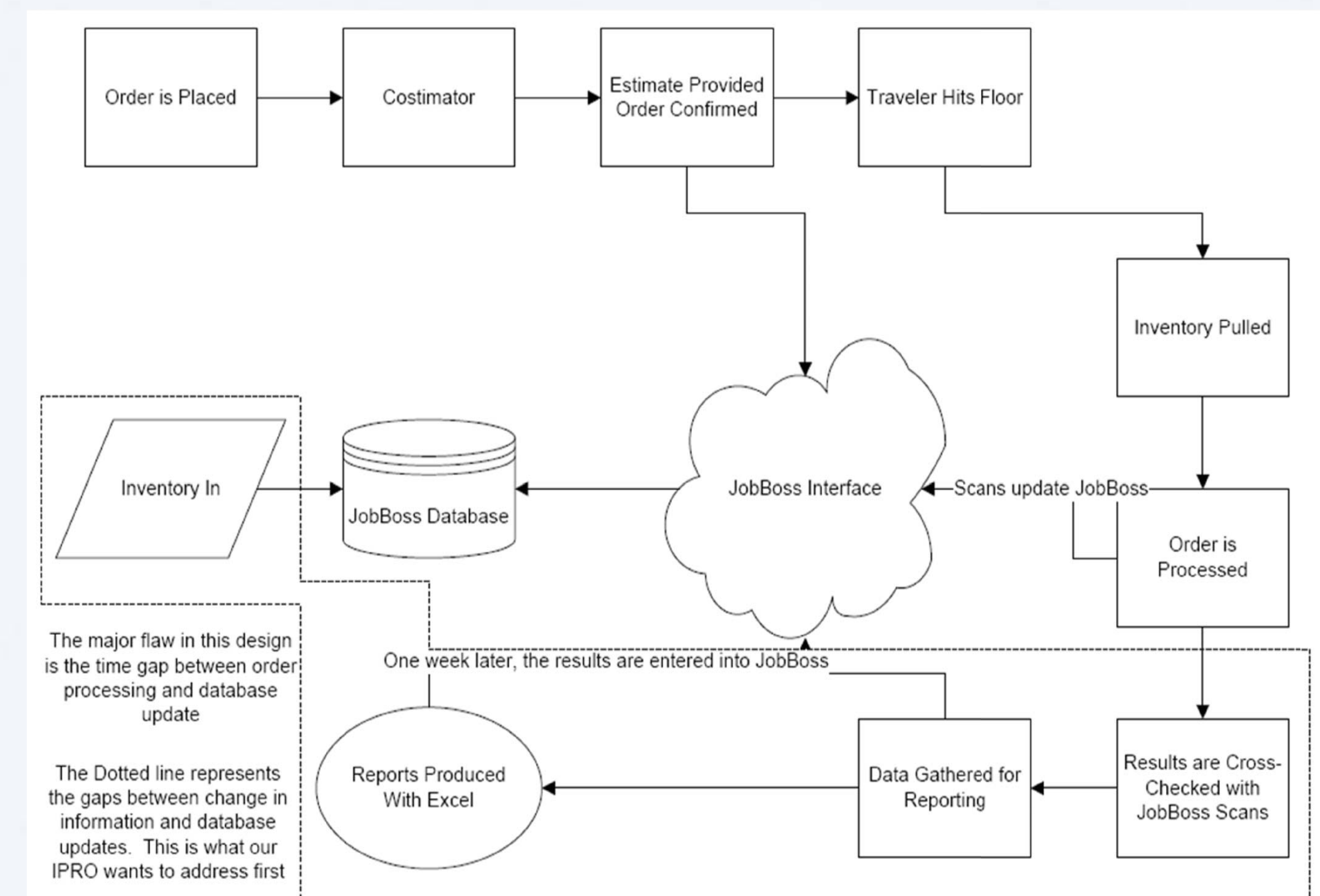# IPRO 342: Developing a Real-Time Inventory System

Background

The sponsor for this project is Midwest Steel and Services. They operate out of Wheeling, IL and provide specialized steel services and offer a fast turnaround time. A real time information system would provide them with a more efficient means to conduct business, track inventory and process orders. Currently, the company relies on rigorous practices like manually retrieving inventory data from one database and transfer that same data into another

Current Process

The major flaw in this design is the time gap between order processing and database update

The Dotted line represents the gaps between change in information and database updates. This is what our IPRO wants to address first

The Team

Derrick Davis, Information Technology & Management
Cordell Jackson, Engineering Management
Pete Mathes, Psychology

Jonathan Roraff, Applied Mathematics
Matt Kasa, Electrical Engineer
Antinder pal Sohal, Electrical Engineer
Jing Kai Tan, Electrical Engineer

Problem

Currently, our sponsor does not have a system allowing for reliable information tracking. The goal of this IPRO is to develop a real time information system for our sponsor, Midwest Steel and Services, so that the issues they currently face will be resolved.

Objectives & Methodology

- Review and implement previous semester's work

- Verify the current flow of information within the company

- Consulted with ITM professor for the most practical solution

- Implement web application inventory and reports modules

Our Solution

Results

Our team evaluated previous semester's work before deciding to acquire a professional opinion from within the industry. The decision was made after realizing that there was very little in terms of a framework to continue from. After consulting with a fellow IIT professor andgrad student, our team adjusted its programming efforts towards what we determined to be a more efficient system. We were able to design a functional web application allowing access to three separate pages: Inventory, Reports, and Home, After demonstrating this new system to the employer, the workers gave us a new direction to go in. We were able to draw from their day - to- day experiences in attempt to improve their current methods and system.