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| **Sprint Review & Retrospective 1** | |
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| **Tru Lawn LLC**  **02/06/2023**  **Team 13: Nic Attridge, Austin Bowen, Brad Coddington, Jessica Walker** |  |

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# Sprint 1 Executive Summary

Tru Lawn LLC is a locally owned and operated company that values honesty and integrity. Their goal is to provide the Onslow County, North Carolina, area with the best landscaping and water feature services possible, including bespoke outdoor pond and water feature installation. They were founded in 2015, and since then, they have been known for their meticulousness and reasonable prices. Currently, Tru Lawn LLC communicates design ideas to its clients through hand-drawn designs. After receiving approval, they complete their formal bid form and place their purchase with their supplier, Aquascape, Inc. Quick, expert design and quote delivery are not possible in the present context. The customer wants to be able to develop a bill of materials and a comprehensive drawing. Additionally, they want to provide reports on customers and sales data.

Time will be the biggest obstacle to developing a fully operating system by May 1, 2023, since all group members have duties outside of class, including family and job commitments and competing availability. The benefits of the solution would allow the client to: monitor customers and sales more precisely, track product order patterns, allow the client to provide their customers with expert quotations and designs.

# Company Background

Tru Lawn LLC is a locally owned and operated company that values honesty and integrity. Their mission is to deliver the highest quality landscaping and water feature services, including customizable outdoor pond and water feature installation, throughout the eastern NC area, backed by many years of personal hands-on experience and knowledge. Established in 2015, they pride themselves on being competitively priced and their attention to detail.

# Current Environment

Currently, Tru Lawn LLC is utilizing hand-drawn sketches to relay design concepts to their customers. Once approved, they fill in their official bid sheet and place their order through their supplier, Aquascape, Inc. They are looking to refine their quote process by utilizing Computer Aided Drafting software to design concepts utilizing 3D blocks and build a bill of materials to provide quotes to their customers.

# Problem Analysis

The current environment doesn’t allow for quick, professional design and quote delivery. The client wants to provide a detailed sketch and produce a bill of materials. They would also like to create reports regarding customers and sales information.

# Proposed System Objectives

## Business Requirements

* 1. Organize product descriptions, prices, and availability
  2. Allow staff to produce design concepts utilizing Computer Aided Drafting (CAD) software
  3. Capability to produce customer orders and sales reports
  4. The system must provide a user-friendly interface and experience to ease the amount of time to train staff

## User Requirements

* 1. User will be able place prebuilt 3D blocks in CAD model
  2. User will be able to add, delete, and modify prebuilt 3D blocks
  3. User will be able to associate prebuilt 3D blocks with products
  4. User will be able to create quotes from CAD design
  5. User will be able to view data on customer orders
  6. User will be able to create and view reports regarding sales

## Functional Requirements

* 1. The system must retain order history for a year
  2. The system must collect, and store information related to product types, quantities, and prices
  3. The system must update quote form based on items placed in CAD model
  4. The system must produce reports regarding customer information and sales

## Non-functional Requirements

* 1. The system will be available for use 24/7, 365 days
  2. The system should allow multiple staff members to interface with it at any given time
  3. The system should allow integration with a CAD system and other third-party applications

# Constraints

As all group members have familial and work obligations outside of class along with conflicting availability, time will be the largest constraint to having a fully functional system by May 1, 2023. Familiarity with CAD software like Unreal Engine 5, databases, and coding will also be a constraint.

# Added Business Value

## Tangible

* The system would allow the client to track customers and sales more accurately
* The system would allow the client to accurately track trends in product orders
* The system would allow the client to provide their customers professional quotes with designs

## Intangible

* Streamlining their process would allow Tru Lawn LLC to scale in the future
* Shore up product storage by purchasing accurate quantities according to trends in sales
* Increased customer acquisition