**Computer Science Technology**



**420-436-VA**

**System Development**

**Deliverable #1**

**Logi IV**

I, **Matthew Veroutis**, 6243511, certify that I have contributed to this deliverable,



I, **Matthew Macri** 2124478 certify that I have contributed to this deliverable,



I, **Kais Rafie** 2371100 certify that I have contributed to this deliverable,



I, **Tarek Abou Chahin** 2264928 certify that I have contributed to this deliverable,

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**Client Info:**

**Company Name:** Texas Gears

**Contact Name:** Scott Gohrt and Sean Gohrt

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**Executive Overview:**

Our project is focused on developing a **Project/inventory management System** for Texas Gear and Euro Gear. These companies operate in the mechanical engineering industry, specializing in the design and manufacturing of driveline components, including gears, shafts, and related equipment, primarily serving heavy industries such as mining, oil and gas, and power generation. ***The goal of this project is to create a web application solution that helps Texas Gear manage inventory efficiently and process monitoring. Our team will meet virtually with the client on a weekly basis.***

To ensure that this project gets properly done we will meet Tuesday from 12:00 to 2:00 in System Development class and Monday mornings from 8:30 to 11:30 in person. We may also host additional meetings based on the need and availability of the team members. When we need to meet virtually, we will be using discord to its ease of use and its screen sharing feature. We will share all documents via google docs and our code will be stored on GitHub.

We also split up the tasks based on strengths such as back-end, front-end and database. We also have a project plan made using Microsoft Project which will allow for a set and clear plan which will allow for efficient development. Some aspects are subject to change since projects such as this one tends to be quite dynamic.

**Client:**

### ***Texas Gear & Euro Gear***

Texas Gear and its sister company, Euro Gear, operate in the mechanical engineering industry, serving heavy industries such as mining, oil and gas, and power generation. They specialize in designing driveline components like gears, shafts, and other equipment that transmit motion and power.

While Texas Gear focuses on consultations, process improvements, and industrial designs, Euro Gear handles the manufacturing of gears and power transmission equipment.

#### **Client Overview**

The primary business problem to address is inventory management and process monitoring. Texas Gear requires a software solution to track inventory, streamline operations, and monitor the lifecycle of their projects. Their key contacts, Sean Gohrt and Scott Gohrt, exhibit high levels of computer literacy, including programming skills, making them the ideal point of contact for requirements analysis and feedback. Our team will also meet virtually with the client on a weekly basis to ensure good communication with the client.

#### **Client Leadership**

* **Scott Gohrt**: Technical Point of Contact (Mechanical Engineers, Operations)
* **Sean Gohrt**: Technical Point of Contact (Mechanical Engineers, Operations)
* **Greg Eloise**: CEO and CFO
* **Sarah** **Gohrt**: Marketing Lead

**Team Details:**

**Team Meetings:**

Our team will meet on a weekly basis every Tuesday from 12:00 to 2:00 during the theory class of System Development since both sections are together. We have also made the decision to meet Monday mornings from 8:30 to 11:30, since two of us are already in section 2 lab, and the other two will be able to come since they have no other class at that time. We will also have supplementary meetings on days which work best for us all since our schedules can vary from week to week.

**Repositories:**

For the project code, we will use GitHub which will easily allow us to easily share and work on the most recent up to date version of code.

The following link leads to our GitHub: [GitHub](https://github.com/MatthewMacri/SysDevProject.git)

In addition to using GitHub for our project code, we will be using google docs to store our project documentation such as our deliverable documents. Google docs was chosen due to its versatile features such as its auto save feature which keeps the document up to date and consistent. A Well as its ease of use. The link for the google drive is: <https://drive.google.com/drive/folders/1IKmMJHQ8GsyfiEsLtdMCoJcwRlNlh5Fj?usp=sharing>

**Communication Strategy:**

We will be communicating through various ways such as Discord and SMS messaging when not physical with each other. SMS messages will be used for more urgent announcements since everyone would get the messages, even when they are not on an internet zone. We will also make a discord server which can be used for less dire announcements. Our discord server would have separate text channels which would help team organization. For example, we would have a text channel called “brain-storm” which would only be used for project ideas. Whenever we would need to discuss out of class time, we would also use discord voice channels due to its ease of use and screen sharing ability. The following link leads to the discord: <https://discord.gg/qdcdxH8paM>

**Team Policies:**

| Policy Number | Policy Description |
| --- | --- |
| 1 | Always communicate with respect and professionalism |
| 2 | Ensure all tasks are completed by agreed deadlines. |
| 3 | Actively participate in team meetings and discussions. |
| 4 | Share progress updates regularly to keep the team informed. |
| 5 | Support fellow team members in overcoming challenges. |
| 6 | Ensure inclusivity by making sure everyone feels welcomed |

***All team members approved these policies,***

***These policies may change in the future***

**Areas Of Responsibility:**

To ensure maximum efficiency of the project, each team member will oversee the implementation genre which they are most skilled/comfortable at, the following responsibilities is shows below:

| Implementation Task | Name |
| --- | --- |
| Back-end Development | Tarek Abou Chahin and Matthew Macri |
| Front-end Development | Matthew Veroutis |
| Database | Kais Rafie |

Note that although team members oversee a certain programming domain does not mean that they will only do that domain, if another domain needs help, other team members from other domains will help them.

**Team Leader:**

The team leader will change for every deliverable and will go as follows:

| Deliverable | Team Leader |
| --- | --- |
| 1. Project plan | Matthew Veroutis |
| 2. Requirements gathering and analysis | Matthew Macri |
| 3. UML Diagrams | Matthew Macri |
| 4. Prototype User Interface | Kais Rafie |
| 5. DB Design | Kais Rafie |
| 6. Implementation and client Comments | Tarek Abou Chahin |

**Client Contact:**

Since this project gives us real world experiences, our team believes that it would be most beneficial to keep the client contact consistent. Constantly changing primary client contact can be detrimental in various ways such as instilling doubt and worry in the client. Since Matthew Macri was the one who found the client and has a relationship with them, he will remain the primary client contact throughout the whole project. This will ensure a strong relationship and trust will be built with the client. However, this does not mean that he will be the only one interacting with the client since other team members may be present at the meeting.

**Reports:**

The team leader will oversee making sure that the reports are of the utmost quality. Thus, the person responsible for each deliverable report is listed above under the “Team Leader” Section.

**Contact Information:**

The email address and phone number associated which each team member is shown below:

| Name: | Phone Number | Email Address: |
| --- | --- | --- |
| Matthew Veroutis | 514-688-2776 | veroutism@gmail.com |
| Tarek Abou Chahin | 514-909-1131 | abushaheen.tarek@gmail.com |
| Matthew Marci | 514-714-1021 | matthewmacri11@gmail.com |
| Kais Rafie | 438-525-5611 | kaisrafie9@gmail.com |

**Project Plan:**

Our project plan has been made based on the information and criteria given by the teacher that were included in the project instructions. Certain tasks in the project description are unclear, so our team regularly reaches out to teachers for further details to ensure the project’s integrity, the team equality, and the project’s success. All deadlines were made based on the course outline schedule. All deadlines are subject to change in case of course outline changes.

The project’s tasks were assigned based on skill, efficiency, and preference, every member has their own strong suit in the development phase, ensuring every area of the project gets done effectively. The general tasks are assigned based on the team member’s tasks’ weights and their responsibilities and may be collaborated on. Finally, for equality, recurring tasks for different deliverables will be assigned to different members each time, making work less repetitive and ensuring all team member’s gotten to work on all parts of the project.

Furthermore, as previously mentioned, task details will clarify over time and give us a concrete idea of what competencies/ implementation they require, meaning that all responsibilities are subject to deadline and assignee changes in case the member has faced any emergencies, difficulties, or if the role requires different competencies.

Finally, to ensure all changes are correctly done, and sudden confusion does not appear between deliverables, the project plan will be revised before starting every deliverable, we will be able to overlook and possible better redistribute the tasks based on the new information we find, once tasks are confirmed, there will likely be no change in responsibility, but collaborations are always possible.

