

Warehouse Management System

Introduction to Programming

CMPT 120L 114

Team ABC



Marist College
School of Computer Science and Mathematics

Submitted To:
Dr. Reza Sadeghi

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Project Progress Report #1 of Warehouse Management System

Team Name: Team ABC

Team Members:

1. Shannon Maier shannon.maier1@marist.edu (Team Head)
2. Lauren Lietzke lauren.lietzke1@marist.edu (Team Member)
3. Jaden Reasor jaden.reasor1@marist.edu (Team Member)
4. Dan Aulbach daniel.aulbach1@marist.edu (Team Member)
5. David Penafiel david.penafiel1@marist.edu (Team Member)
6. Cayleigh Goberman cayleigh.goberman1@marist.edu (Team Member)

Description of Team Members:

1. Shannon Maier
 - a. My name is Shannon, and I am a Freshman from Atlantic Beach, New York. I have two sisters, my older sister Maggie and my younger sister Kate. Back at home I am a Lifeguard during the summers and enjoy spending time with my friends. Here at Marist, I am a Computer Science major with a focus in Software Engineering and a Fashion Merchandising Minor. I also am a member of the Women's Lacrosse Team, and enjoy sports in general. I chose to work with this group because we have worked together before on assignments and questions we've had so I thought it would be a good idea to collaborate with them.
2. Lauren Lietzke
 - a. My name is Lauren, and I am from Austin, Texas. I have two dogs back home that are four years old named Moose and Stormi. I was drawn to

Marist initially for volleyball, as I am a member of the volleyball team here, but I am also interested in studying abroad. I am a psychology major with a minor in data science and analytics. I chose to work with this group because I have talked with each of these members before to discuss concepts from class on things like the assignments provided. I enjoy working with people who communicate efficiently, are available to contact outside of class, and like to have fun. Finally, Shannon was chosen as the group leader because she is responsible, and is the owner of both the github repository and the document we're creating.

3. Jaden Reasor

- a. My name is Jaden, and I am a sophomore from Fairfax, Virginia. I have a sister named Aubree and a dog named Brady. I love to spend family time with them and my parents. I am majoring in Applied Mathematics and recently declared a minor in Computer Science as well. I play volleyball here at Marist, which is how I originally discovered Marist while I was going through the recruiting process in high school. I chose to work with this group because I already know some of the members and have worked with them on problem solving in other assignments, so I know we can work together well. Shannon was selected as the group leader because she is very organized and responsible, and she took initiative on creating our group github repository and sharing this document with us.

4. Dan Aulbach

- a. My name is Dan, and I am a sophomore from Brookline, New Hampshire. I have two older brothers, Ben and Chris, and a dog named Lola. I am a Communications major with a concentration in sports communication and a minor in data sciences and analytics. I am the associate editor for Center Field, the sports publication here at Marist, covering sports like volleyball and basketball as well as writing other feature stories, which is part of the reason why I was drawn to Marist in the first place. I chose to work in this group because I know a few of the members from conversations in class and I believe we will all work hard to ensure success on the project. Shannon was our choice for group leader because of her proactive behavior in the group and ability to keep organized in the coming weeks when we work on our project.

5. David Penafiel

- a. My name is David, and I am a freshman from Marlboro, New York. I was born in Ecuador, but eventually moved to the U.S. to live here in the Hudson Valley. I play soccer and was part of the youth academies for professional clubs such as New York City FC and New York Red Bull's which eventually led me to sign a youth professional contract when I was 17. I was fortunate enough to represent the United States Youth National team a few times, and hope to eventually get my NCAA eligibility back to play for Marist next year. My major is Computer Science with a minor in business. I chose to work with this group because everyone is nice, and I've collaborated with some of them to understand previous assignments. Shannon was selected as the group leader because she is always on point in leading which helps get things done efficiently. She created and shared the github repository with us and is always communicating in the team group chat we made.

6. Cayleigh Goberman

- a. Hi! My name is Cayleigh, and I am a freshman from East Granby, Connecticut (a small town in Hartford County). I have a younger sister, Mira, with whom I get along with like a house on fire. My family lives with a hound dog named Strawberry and two parakeets named Neo and Beetle. We also board our two horses named Red and Parker at a nearby barn. I am currently majoring in Computer Science with a concentration in Game Design and Programming. Consequently, I was first drawn to Marist due to its strong Computer Science and Game Design courses, as well as its strength in other categories in case those fields do not pan out for me. I chose to work with this group because I am aware the people in it are diligent and responsible workers. I am excited to collaborate on a project with them and am excited to see what we can create. We chose Shannon as the group leader because we are aware that she is extremely responsible and takes initiative easily. She will be essential to keeping the project on track.

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Project Description: Warehouse Management System

Summary: The warehouse management system (WMS) provides an organized way of storing different products and elements in a warehouse. You can consider a library as a warehouse, which maintains books' details and user libraries. A general WMS stores details of name and identification number of products, their store time, the required storage condition, price, weight, height, etc. following this, this system allows guest users to search for different content and request to borrow/buy them. your WMS will store the data of different user types in distinct SQL tables. this system should at least support the following items:

1. Admin user is capable of:
 - a. Having admin user and password for log in (a string of at least 8 characters)
 - b. Changing the admin user and admin password
 - c. Adding a guest user to WMS by creating a new username and password. a guest user is not able to define or remove other users.
 - d. Removing users from WMS by removing their username, password, and corresponding recorded data.
 - e. Adding an item to the warehouse with varied details, such as:
 - i. Type: food, books, cars, etc.
 - ii. Stored time in the warehouse
 - iii. Pick out time from the warehouse
 - iv. ID: each item in your library should have a unique identification number with a specific format
 - v. Name
 - vi. Provider/creator's name
 - vii. Quantities: the number of available items. for instance, item x with a quantity of 2 is a sign of 2 available x items in your warehouse.
 - viii. Place: where the item is stored
 - ix. Price
 - f. Deleting an item from the warehouse
 - g. Editing an item in the warehouse
 - h. Viewing the list of borrowing requests
 - i. Accepting or rejecting a borrowing request
2. Each user should be able to:
 - a. Search through WMS based on all items' details, such as id, name, and producer.
 - b. Save a list of favorite items
 - c. Request to borrow/buy some items for a specific time. For example, borrowing an item for 3 weeks.
 - d. View the history of borrowed items

3. WMS should be a user-friendly software, such that:
 - a. It shows a welcome page
 - b. It provides a menu of all functions to the user on all pages
 - c. It illustrates the reports in a tabular form. For instance, it displays a well-organized list of the requested items.
 - d. WMS should provide an exit function and thank the user for using this software.
 - e. It shows a warning if:
 - i. The admin user tries to add a new item to the library with an existing ID.
 - ii. If a guest user tries to borrow more than 3 items.
 - iii. A user search request returns null items.
4. WMS should protect the user information, such that
 - a. Optional: WMS passwords and the recorded information should be ciphered. In the simplest case, you can use the caesar cipher methodology. The easiest way to understand the caesar cipher is to think of cycling the position of the letters. in a caesar cipher with a shift of 3, a becomes d, b becomes e, c becomes f, etc. when reaching the end of the alphabet it cycles around, so x becomes a, y becomes b, and z becomes c.

GitHub Repository Address

https://github.com/Shannonmaier/-CMPT-120L-112_Warehouse-Management-System_Team-A-BC-