EVERGREEN VISITOR LOG

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Team 25sG1

Valeria Urzua (valeriaurzua524)
Gloriele Mendoza (glorie16)
Thy Hoang (thy-hoang)
Zoey Yung (Sug4rPlum04)
Kerry Kong (SunShinier404)

EXECUTIVE SUMMARY

After contacting the farm store staff, they told us that they are looking to improve visitor engagement at the farm and that a visitor log would be most helpful. The primary goal of our project is to assist the Lopez Urban Farm staff in tracking visitor activity. This project will provide the staff with an easy-to-use system that logs this information. This will allow them to analyze information about their visitors more efficiently. The farm staff can then use this to identify trends, such as peak visiting hours, common reasons for visiting, and seasonal fluctuations. This can help the farm with scheduling and enhancing visitor experience.

BACKGROUND

The Evergreen SRC Project aims to assist the Lopez Urban Farm in its development. Named after civil rights advocate Ignacio Lopez, this organization actively addresses food security issues in Pomona District 2 through urban farming initiatives. Consequently, unauthorized or unattended access can present significant challenges, resulting in security risks, liability issues, unexpected medical emergencies, operational inefficiencies, and even revenue loss. Without a structured visitor tracking system, the Lopez Urban Farm may continue to face these unfortunate difficulties. The farm also aims to promote engagement and experience of visitors at the farm, which may be difficult to do without a system to collect visitor data.

SOLUTION

Here is our project schedule and timeline:

1. Research (Due Week of 3/9)
    a. Ask the farm staff more information on the kind of data they want to collect
    b. Analyze previous versions of tracking logs for the farm
2. Design the System (Due Week of 3/23)
    a. Plan structure of program (classes, methods, Objects)
    b. Decide data storage (ex: Using an ArrayList)
3. Development (Due Week of 4/6)
    a. Create classes and methods (ex: Class Visitor with attributes like name, visitDate, and reasonForVisit)
    b. Input validation (handling exceptions to ensure data is filled and correct)
    c. Add feature for staff to generate reports (ex: list of all visitors who visited on a specific date, or visited for a certain reason)
    d. Add feature for visitors to have the option to leave reviews/feedback on their visit
    e. Create a simple user interface
4. Test Application (Due Week of 4/13)
    a. Run test cases
    b. Ensure program can handle invalid input
    c. Ensure generated reports are accurate
5. Implement and Monitor (Due Week of 4/20)
    a. After testing is complete, share program with the farm staff
    b. Connect with staff to ensure program is working properly
    c. Discuss any issues/improvements
6. Complete Slideshow (Due 4/27)
7. Complete Technical Paper (Due 5/4)

DELIVERABLES AND GOALS

Deliverables
1. Java program that is able to keep track of visitor names, times, dates, reasons for visiting, and generate visitor reports

2. Project Slideshow Presentation that summarizes key features of our project (our process, solution, and impact)
3. Technical Paper that describes the development of the project (design, process, challenges, analysis)

Goals

1. Create a tracker intended to record visitor names, dates, and reasons for visiting
2. Assist staff with understanding visitor patterns, peak visitor times, and popular reasons for visiting
3. Improve farm management and organization with an easy-to-use tool
4. Improve visitor engagement and enhance visitor experience

REQUIRED RESOURCES

Technical Resources
1. Java Development Kit JDK for running the program
2. Visual Studio Code (VS Code) as our IDE for testing
3. Github for team collaboration
4. Google Docs/Slides for creating presentation

Non-technical Resources
1. Laptops/desktops to work on project
2. Communication with the farm staff to ensure our project aligns with their needs

CONCLUSION

Overall, our goal with this project is to help support the Lopez Urban Farm with a tool that they can use to improve management and organization. With the information gathered by our visitor log, the farm staff can better analyze visitor input and make informed decisions

about the farm in the future. This would help them achieve their goal of encouraging farm engagement and promoting green spaces to their visitors.