VERBOVELOCITY

ATTENDANCE TRACKING SYSTEM

NYSHA CHEN RYLEY HOEKERT KRISTA HAPNER







INFORMATION SYSTEM DESIGN Team NERCK assembled and began building out a combination of designs

from the Information System Analysis Course

INSTALLATION

In Spring 2018, Tom and Darci Nurkkala, Krista, Nysha, and Ryley are travelling to Cuenca, Ecuador to install the system

DR. NURKKALA

Dr. Nurkkala connected with the Guido

their need for this application

brothers in Cuenca, Ecuador and discovered

INFORMATION SYSTEM ANALYSIS

Christine, Ellen, Krista, Nysha, and Ryley

a business proposal

gathered system requirements and made

PROPOSAL PRESENTATION

to available faculty and stakeholders

Each group gave their business proposal

and finished mobile design

Krista, Nysha, and Ryley added new

conversion, redesigned the front-end,

features, completed a database language

SENIOR PROJECT

INTRODUCTION

Verbo Church is a flourishing church based in Cuenca, Ecuador. In addition to their main church services, they have home groups which meet in home group leaders' homes throughout the week. Currently, Verbo Church keeps track of attendance for each home group by inputting data into Excel documents. Home group leaders then send Excel documents to a secretary or volunteer workers for storage and analysis. This system has led to inaccurate records and outdated information. Verbo asked us to help them develop a system to keep track of attendance, help members find home groups near them, and ultimately encourage church growth and flourishing through data collection, analytics, and positive user interaction.

REQUIREMENTS / GOALS

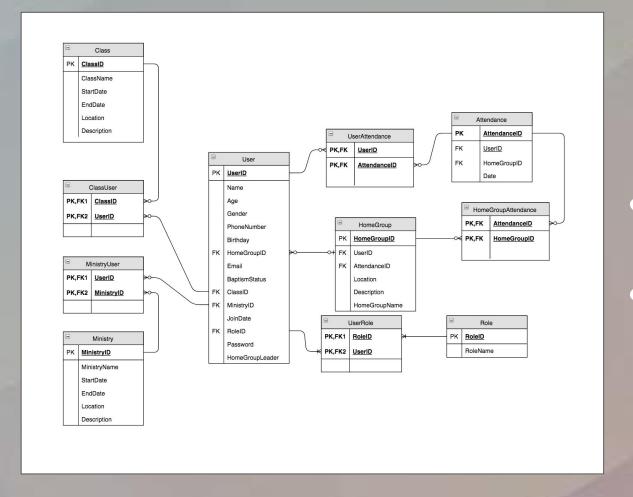
Application will:

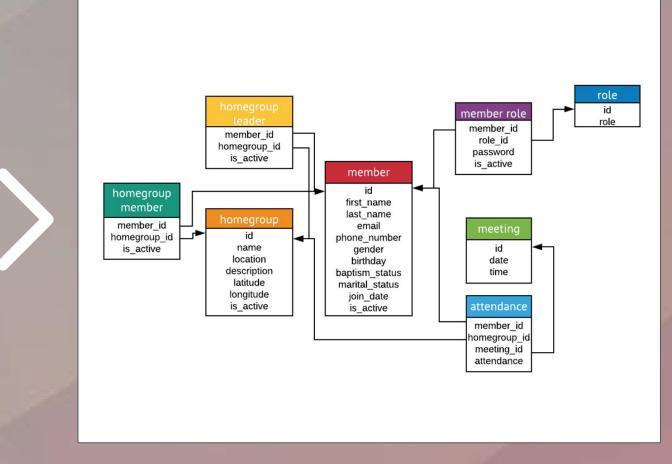
- Allow home group leaders to track attendance
- Provide English / Spanish language options
- Have a responsive mobile-first interface design
- Allow visitors to locate and learn about home groups via map
- Provide the admin with graphical information

CHALLENGES

- Learning flask framework
- Migrating database systems and front-end frameworks
- Merging conflicts / utilizing Git
- Developing Mobile Design
- Conceptualizing the attendance
- Integrating map feature

BEFORE & AFTER





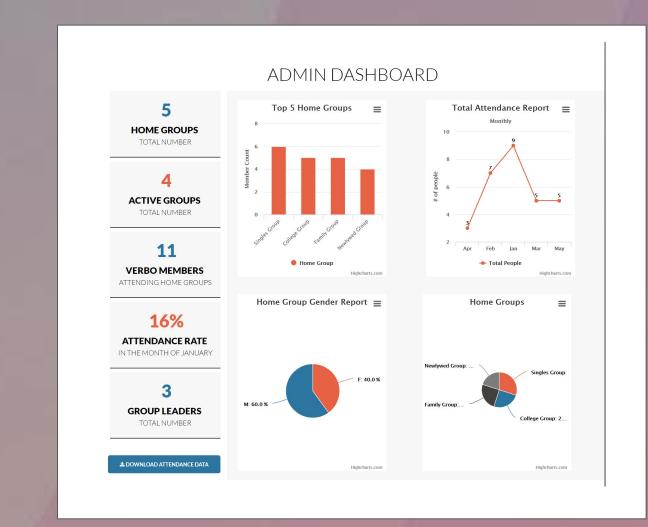
(Before) Our original ERD that we started with in ISA. (After) Our final database. We eliminated features such as keeping track of classes that members took, and therefore no longer needed them in our ERD.

TRANSFORMATIONS

Along with migrating from SQLite to PostgreSQL and Bootstrap 3 to Bootstrap 4, we focused on an application redesign.

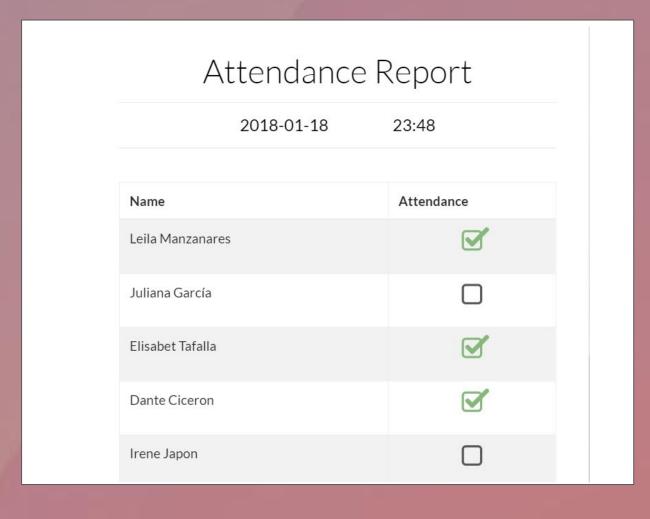
BEFORE & AFTER



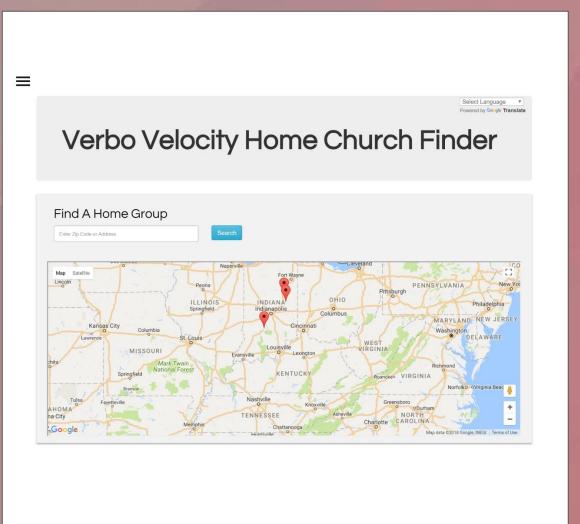


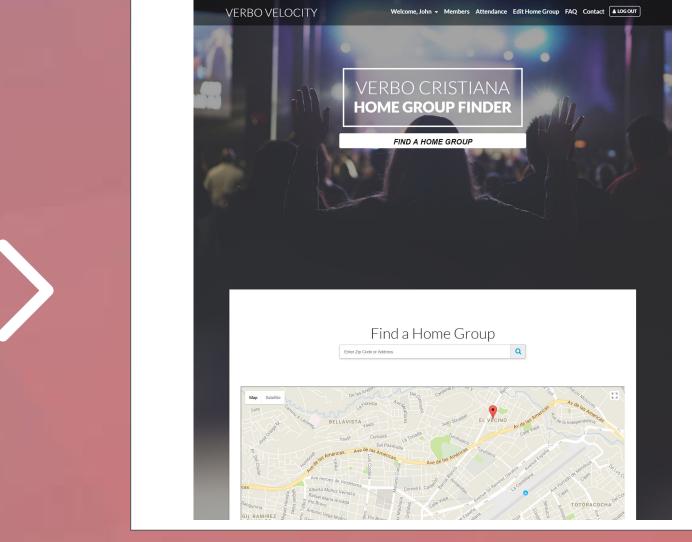
(Before) Our original Admin Dashboard page that lacked content. (After) We added functionality and color to the Admin Dashboard.

	17 Time: 16:00	
First Name	Last Name	Attendance
John	Smith	€
Nysha	Chen	Z
Christine	Urban	
Save		



(Before) Our original Attendance Report page. (After) We upgraded the page's design while keeping its simplistic layout.





(Before) Our original Home page. (After) We constructed a more focused style and feel for the Home page.

ROLES

- An **Admin** can:
 - Create / Edit / Remove members, homegroups, and roles
 - Analyze and view graphical data
- A Home Group Leader can:
 - Take Attendance / View Attendance Analytics
 - Create/Edit/Remove Members
- Edit their home group
- A Website Visitor can:
- Search for a home group in their area
- Contact home group leaders to connect

ACKNOWLEDGMENTS

We would like to thank Dr. Nurkkala for his continual guidance from ISA/ISD to our senior project. In addition, thank you Dr. Geisler for providing project advice and sharing his expertise. Furthermore, we would like to thank Verbo Church for collaborating with us through this project and providing this opportunity. Finally, thank you to Christine Urban and Ellen Sokolowski for their help during ISA and ISD.

CONCLUSION

Overall, this project has not only be enjoyable for us, but it has also been an amazing learning and growing experience. Because of this project, we have gained confidence in our ability to work as a team, design a system, then implement that system to a high degree of excellence.

We also gained experience working with a "real life" customer. We are looking forward to the opportunity to potentially travel to Cuenca, Ecuador during Spring Break 2018 and install the system on their servers.

