

First Tee Pittsburgh

Executive Summary

Community Partner

Paul Coultas

Student Consulting Team

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Background

First Tee is a youth development organization that provides programs to help young people from ages 7-18 develop life skills and values through the game of golf. The organization was founded in 1997 and has since established over 150 chapters across the United States and several other countries. First Tee aims to impact the lives of young people from diverse backgrounds and abilities by introducing them to the values of the game, such as honesty, integrity, and sportsmanship which they can use on and off the golf course.

First Tee Mission Statement -

We enable kids to build the strength of character that empowers them through a lifetime of new challenges. By seamlessly integrating the game of golf with life skills curriculum, we create learning experiences that build inner strength, self-confidence, and resilience that kids can carry to everything they do.

Project Description

Project Opportunity

First Tee Pittsburgh was facing communication issues between coaches and participants, particularly with cancellations of program sessions. The manual process of finding phone numbers and email addresses of all program participants and sending group text messages and emails proved to be inefficient and caused confusion and frustration for coaches. To address this problem, a web application was created that streamlines communication and helps coaches ensure all participants are informed of any session cancellations. This solution is easily accessible on coaches' phones and provides an easy-to-use tool to simplify the process.

Project Vision

Our team's vision is to develop a user-friendly web application for First Tee Pittsburgh that streamlines the communication and cancellation process between coaches and participants. By providing coaches with a tool accessible on their mobile devices, our application will simplify the process of sending mass texts and emails to all participants in their class, making it easier to inform everyone about any schedule changes.

Project Outcomes

- **Implementation of Coach Class Portal** - A summary of project specifications and features
- **Application Configuration and Deployment** - An overview of the technologies used
- **Populated Classes and Students** - A discussion of one of the main functionalities
- **Application Web Pages** - A flow for how the application should be used

- **Community Partner Training and Capacity** - An overview of information delivered to community partner
- **Top Level Outcomes** - Overview of positive outcomes that resulted from our solution

Project Deliverables

- **Github Repo** - Link to Github Repository containing source code for notification system.
- **Entity Relationship Diagram** - An ERD containing the key models and fields that our solution pulls for future developers to reference.
- **Design Guide** - Design choices made in the project, including the detailed color and font choices for future developers to reference.
- **Figma Wireframes** - The Figma wireframes of the original design for the notification system
- **User Guide** - An intuitive walkthrough of the solution for first time users and reference for old users.
- **Developer Guide** - Includes all the documentations for future developers to get started
- **Account Information** - A document containing the logins necessary to use and modify the application for future developers and maintainers
- **Solution Diagram** - An outline of the system employed in the final solution, including technology stack used and how the technology interacts with each other.
- **Meeting Notes** - Taken during community partner meetings for developer reference.
- **Project Proposal** - Details the initial ideas and research conducted by the team
- **Capacity Planning** - Explores how the project can be scaled and sustained in the future

Recommendations

- **Deploy on AWS** - Reasons to deploy with AWS instead of Heroku supported with graphs and charts. Also includes a brief guide and a resource on how this can be done.
- **Consider More Scalable Plans for SendGrid** - Reasoning on why they should upgrade the email API plan.
- **Outstanding Issues** - A link to the remaining issues left for our project that were not required for MVP but could be addressed to improve the application.
- **More Use Cases** - 5 Additional Use Cases that could be used to extend the functionality of our web application in the future

Student Consulting Team

Edward Chen: Edward is a senior studying Information Systems and Business Administration at Carnegie Mellon University looking to pursue a career in Software Engineering. Edward worked as the QA and Backend engineer, as well as the Risk Manager for the project.

Alexander Ma: Alex is a junior studying Information Systems and Human Computer Interactions at Carnegie Mellon University looking to pursue a career in UI/UX. Alex worked as the Frontend engineer and Project Manager.

Nathan Maher: Nathan is a junior studying Information Systems and Software Engineering at Carnegie Mellon University looking to pursue a career in Software Engineering. Nathan worked facilitating integration and deployment and was the Client Relationship Manager.