

# EPICS - Butler University

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## Healthy Horizons, College of Pharmacy and Health Sciences, Butler University

## **Team Introduction**

David Purdum - Team Leader

Dalton Morzos - Back End

Nick Ruddell - Statistics & Design

Catherine Bain - Front End & Design

Alex Kuhn - Front End

Earl Gill IV - Back End & Database



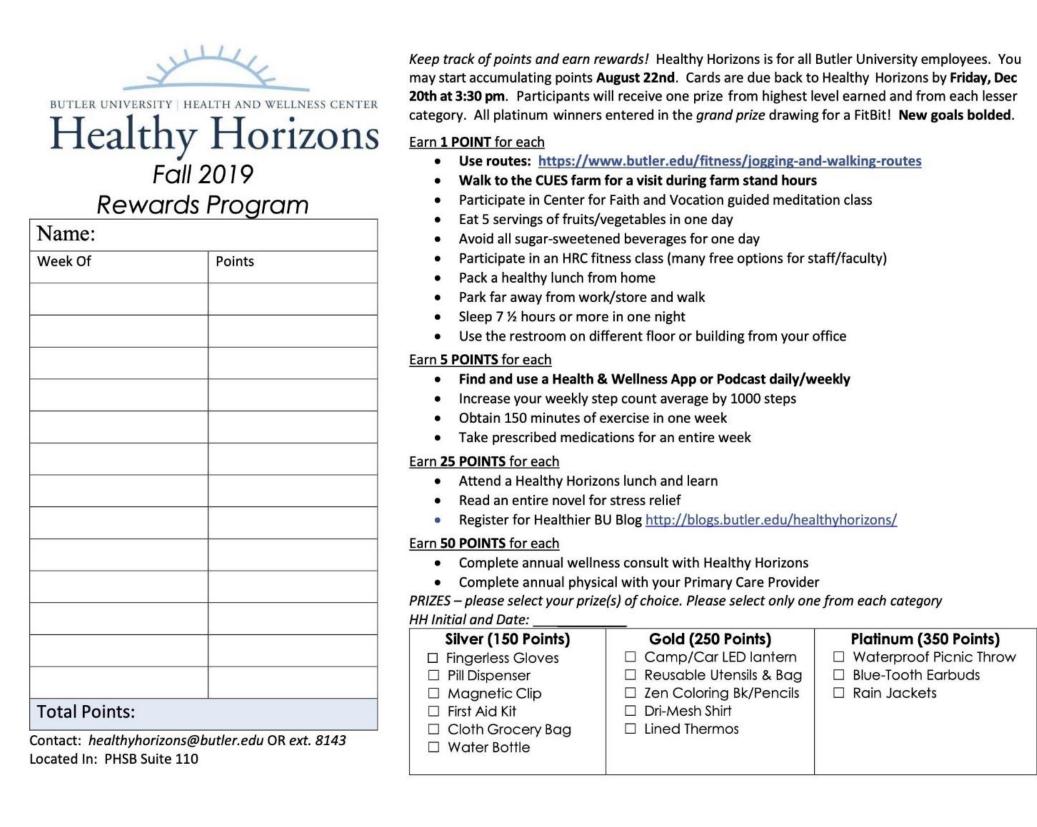
## **Client Background and Information**

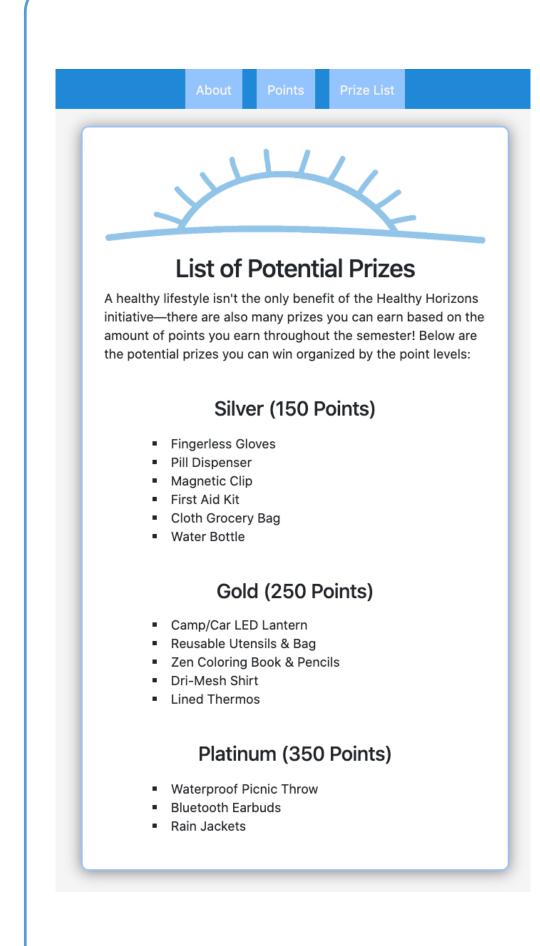


# Healthy Horizons

The Health Horizons program started in 2004 with the purpose of promoting healthy living by providing a comprehensive and confidential wellness package to Butler University faculty and staff. The program assists employees with improving their health, provides ongoing information and health education programs, and helps identify health risks and ways to reduce those risks.

In the past, Healthy Horizons has used a paper form to track participant's points.





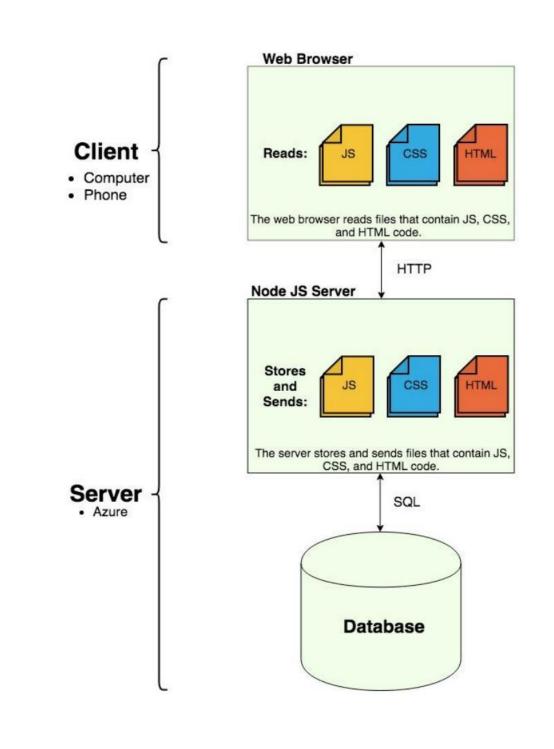
# Point Submission for Fall 2019 In the boxes below, please enter the number of times you have completed each task this semester. You can come back to this page and update your point totals. The submit button will calculate your points and let you pick out the prizes you are eligible for. Then you will do a final submission that will send your points and prize selections to Healthy Horizons. Earn 1 Point Each Enter the number of the times each task was completed. Participate in Center for Faith and Vocation guided meditation

The front end team developed a wireframe for the online point tracking form. The user can enter the tasks they completed (left panel) and see their progress towards rewards (right panel) as well as see how many points they have until the next level of points rewards (right panel). They learned HTML, CSS, and EJS. EJS, a template language, was used for the navigation page while CSS and HTML were used for the other elements of the page.

In addition, the front end group added a prize page where users can see the prizes they are working towards earning in an attempt to incentivize participation.

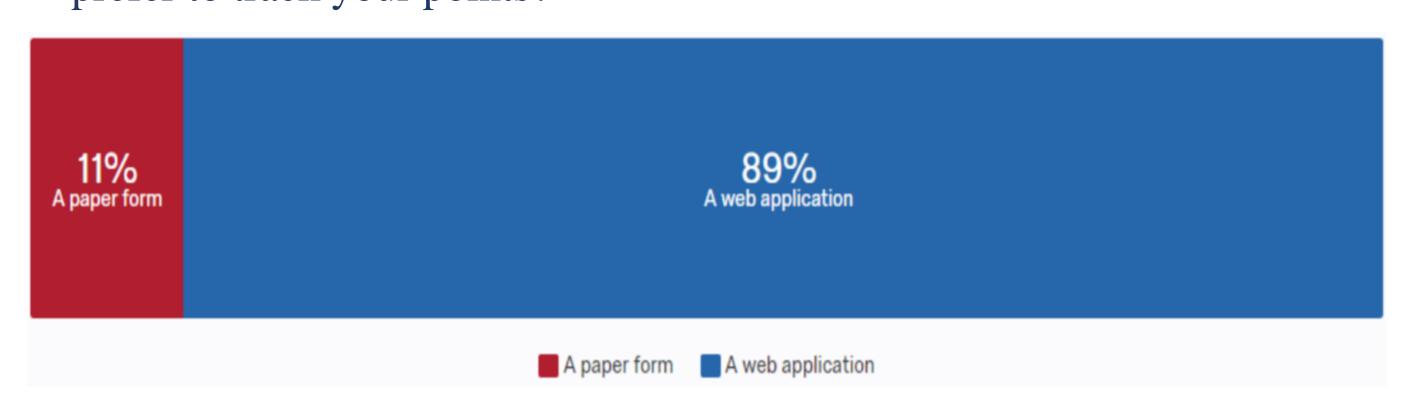
**Healthy Horizons Web Application** 

The back end of the team created a web server that reacts to HTTP requests from the client. They initialized an SQL database to store statistics about users and the tasks they have completed. They learned how to use Node.js to serve information from a cloud-based database to a website.



The previous semester's data team learned how to use Qualtrics to design a survey for Butler faculty and staff. It asked for their thoughts on how to improve the program in the future and gauged their interest in a web based application.

The graph below depicts responses to the question "How would you prefer to track your points?



## **Objectives**

- Gather and analyze data regarding Healthy Horizons and its participants
- Design a wireframe template for a web-based tracking form
- Create a back-end database to store information
- Host the website

## Challenges

- Front End Team:
  - Learning and implementing CSS, HTML, and EJS
  - Managing the dynamics of multi-page website
- Back End Team
  - Learning and implementing Node.js
- Hosting the website
- Connecting the SQL database with the Node.js server

## Conclusion/Reflection

This team was really excited to continue working on this project from last semester; we were passionate about the mission of Healthy Horizons and ready for the challenges of learning. We were able to create multiple products, each of which played to the team member's strengths while still learning something new. Overall, the semester was a major success and we hope that the Healthy Horizons project continues to evolve with future EPICS groups.

### Acknowledgements







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- Anna Gerlach; Healthy Horizons Program Coordinator
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  - David Emmerling
  - Abby Craig
  - Sam Badovinac

