



# **IOT HTR: CHALLENGES, EXCELLENCES AND FUTURE CHANGES**

*Team 8: TheLittleEngineersThatCould*

~

## **Tables of Contents**

<b>Challenges</b>	<b>3</b>
<b>Excellences</b>	<b>3</b>
<b>What We Would Change</b>	<b>3</b>

## Challenges

This project, while spanning roughly four months, faced many challenges. The following is a list of said challenges that our group experienced along the way:

- At the beginning of the project, our group was unsure of what the topic of the project was. Some of us thought that the project involved actually modelling a train, and some of us thought it was more of a code-heavy project. Of course, both of these assumptions were incorrect, but we eventually ironed out the errors in our thinking through asking questions in class and clarifying what our project actually was.
- In addition to this problem, we also ran into the challenge of deciding how to code our final demo. At the beginning of our planning phase, we planned our code out in Java. However, as we tried to get the main display worked out, we realized that Java would not be the best for our project. This made us waste a fair amount of time throughout our process, as we had to recode our entire plan into HTML/CSS/Javascript. However, after this challenge, it made our project much more readable, so we were happy with our overcoming.

## Excellences

While we had some challenges, we also had many excellences throughout the project that made it very worth it.

- Our number one excellence we have from this project is the overall document and code. Our team is very proud of the work we put in over the past four months. It was well worth the hard work we put in throughout the semester.
- More specifically, the best part of our project was seeing the code run in the long run. It took a while for us to figure out our diagrams and code so that they all aligned, but in the end, it created a great, functional, HTR software display.
- Another excellence we are happy about with our project is that now that the four of us have worked on a software development project as a group, as individuals, we will all be able to manage another software development project in the future.

## What We Would Change

We were very happy with how we created our project, but there were definitely some things we would have done differently had we known the future outcome.

- We would think about our code choice harder. We initially picked Java because it was the only object oriented programming language that came to mind, but had we thought about it longer, HTML/CSS/JS were the obvious choices to go with.
- We would have asked questions about clarifying our exact project requirements earlier. While we ended up understanding our project, it took longer than really necessary, so next time, we will clarify with the people we are working with to know what the customer really needs.