Reedy Creek Magnet Middle School

Girls Who Code Club Presents

Social Distance Activity Recommendation Chatbot: Quarantina

Kicking off the Virtual Club

Week 1

- Club Facilitator Intros
  - ☆ Jordan D'Addeo, Software Developer
  - ☆ Olivia Davis, Software Designer

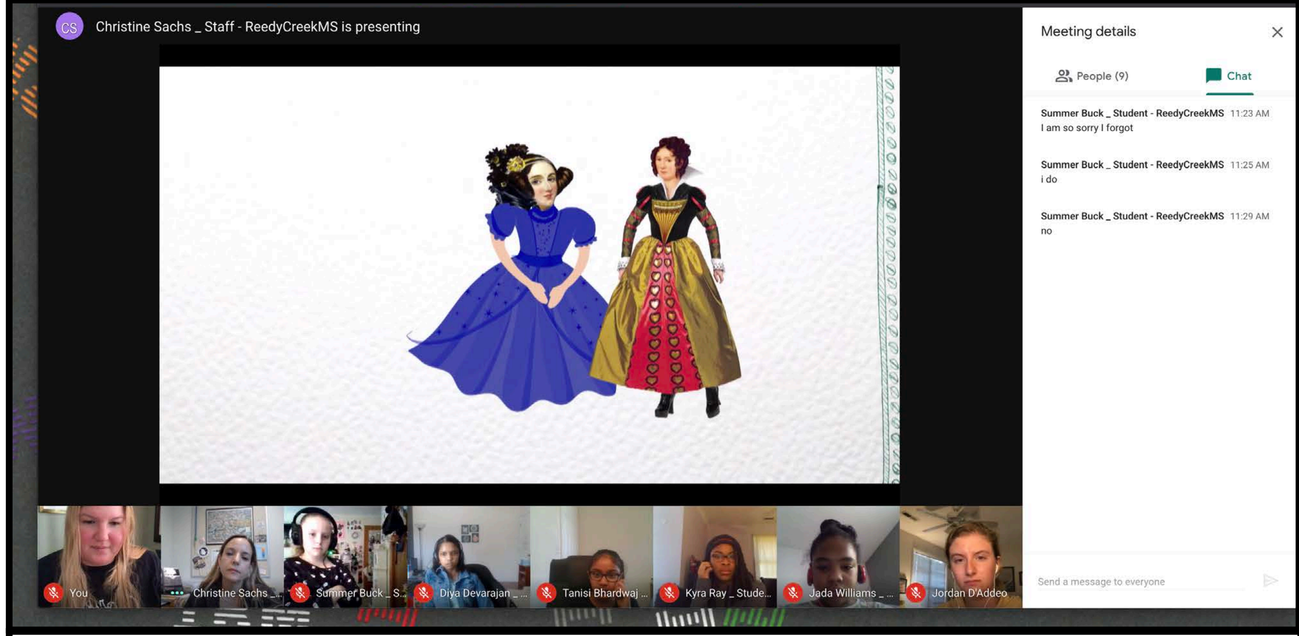
- Learned what Computer Science is:
  Computer science is the study of all of the different ways computers can be used to make things easier, faster, or more fun.

- Learned what a Girls Who Code Club is:
  GWC is a place for us to practice the skills of a computer scientist as we build a project we care about with our friends.

- Discussed the agenda for each session:
  Mix of learning and applying learning through activities

- Spotlight Video: Ada Lovelace - Ada is considered the first computer programmer.

- Design Thinking Exercise: Hopes and Fears



Design Thinking, Empathy Maps, and Chatbot Intro

Week 2

- Spotlight Video: Alyssia Jovellanos - Co-founded and directed DeltaHacks, Canada's first and largest student-run hackathon for change.

- Presentation: IBM Design Thinking

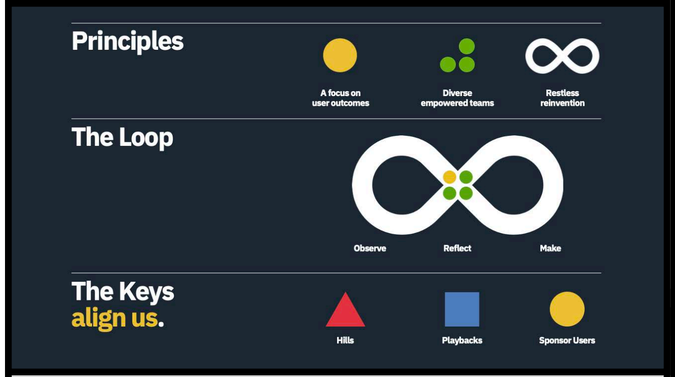
  We use Design Thinking as a way to solve some complex problems here at IBM and create innovative solutions for our users.

- Design Thinking Activity:

  ☆ Empathy Map

- Project Reveal: Create a chatbot that shares socially distance approved activities you can do with your friends.

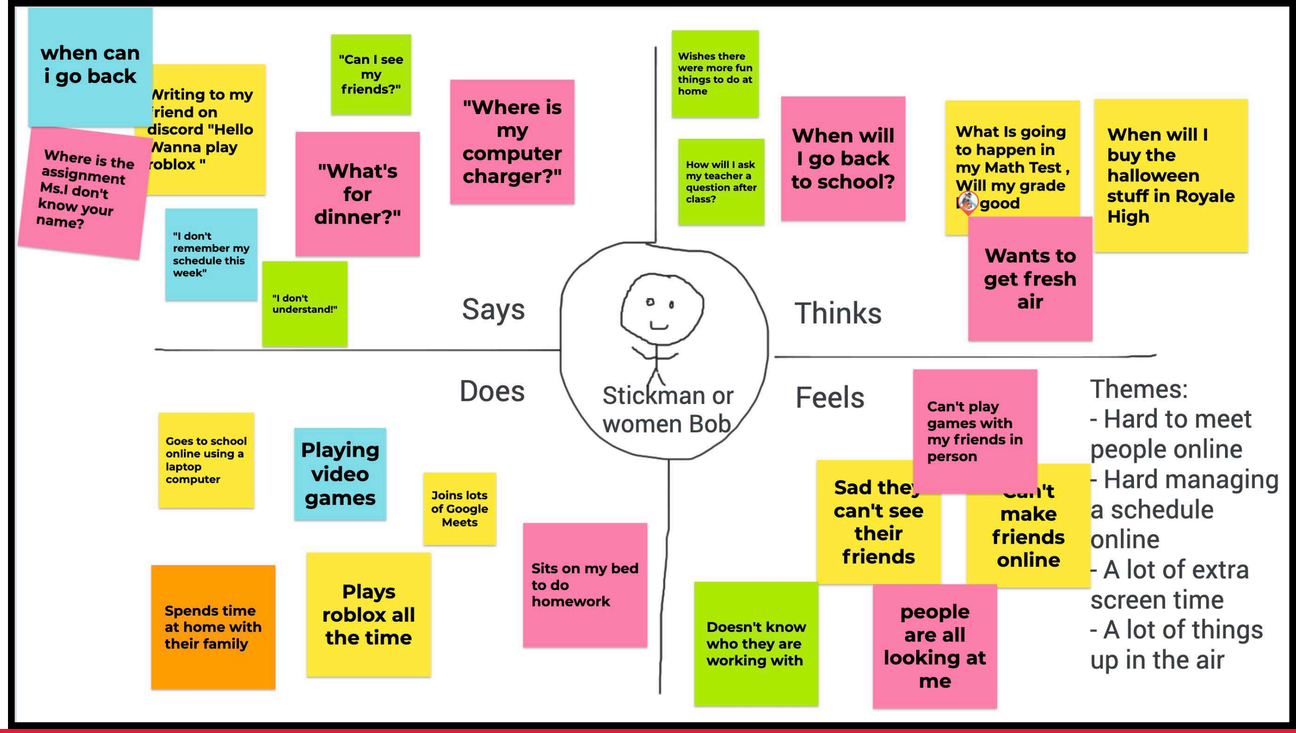
- Presentation: Examples of Chatbots



IBM Design Thinking is a framework helping us get things done in a way that enables speed, constantly delivers new value, and ensures minimal risk.

Design an alarm clock.

Design a better way for people to wake up in the morning.



Project Brainstorm and Learning about Chatbots

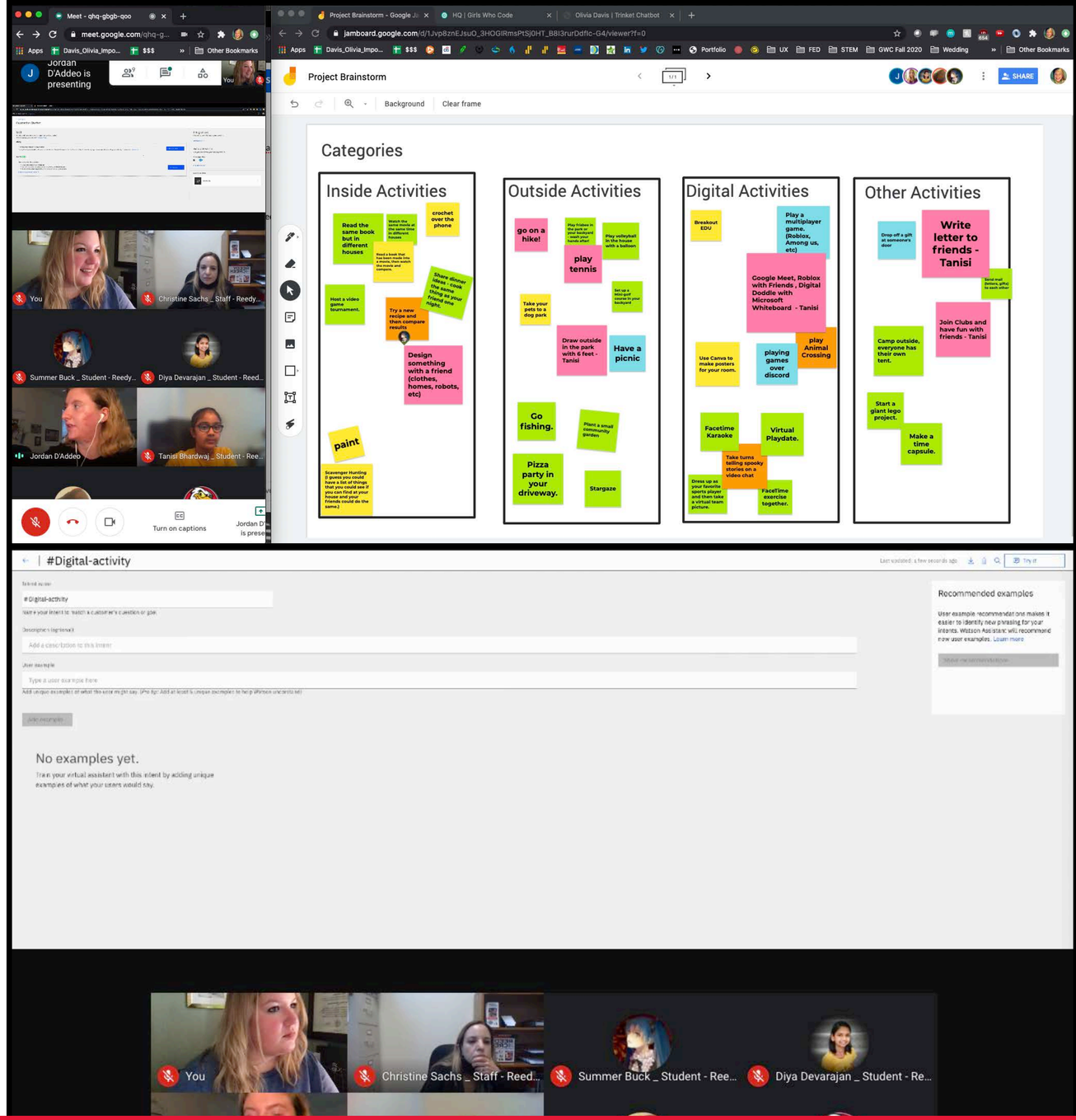
Week 3

- Spotlight Video: Amali de Alwis - CEO of Code First: Girls

- Activity:
  - Chatbot Project Brainstorming:
    - Inside Activities
    - Outside Activities
  - Digital Activities
  - Other Activities

- Learned about Watson Assistant and Chatbots
  - ☆ Intents
  - ☆ Entities

- Activity:
  - Create an intent and entity with one of the activities from the brainstorm



Writing Intents and Entities

Week 4

- Spotlight Video: Katherine Johnson - an American mathematician whose calculations of orbital mechanics as a NASA employee were critical to the success of the first U.S. crewed spaceflights.
- Activity:

Turned the activities we brainstormed into intents and entities to prepare the input for the chatbot.

- Inside Activities
- Outside Activities
- Digital Activities
- Other Activities

Inside Activities

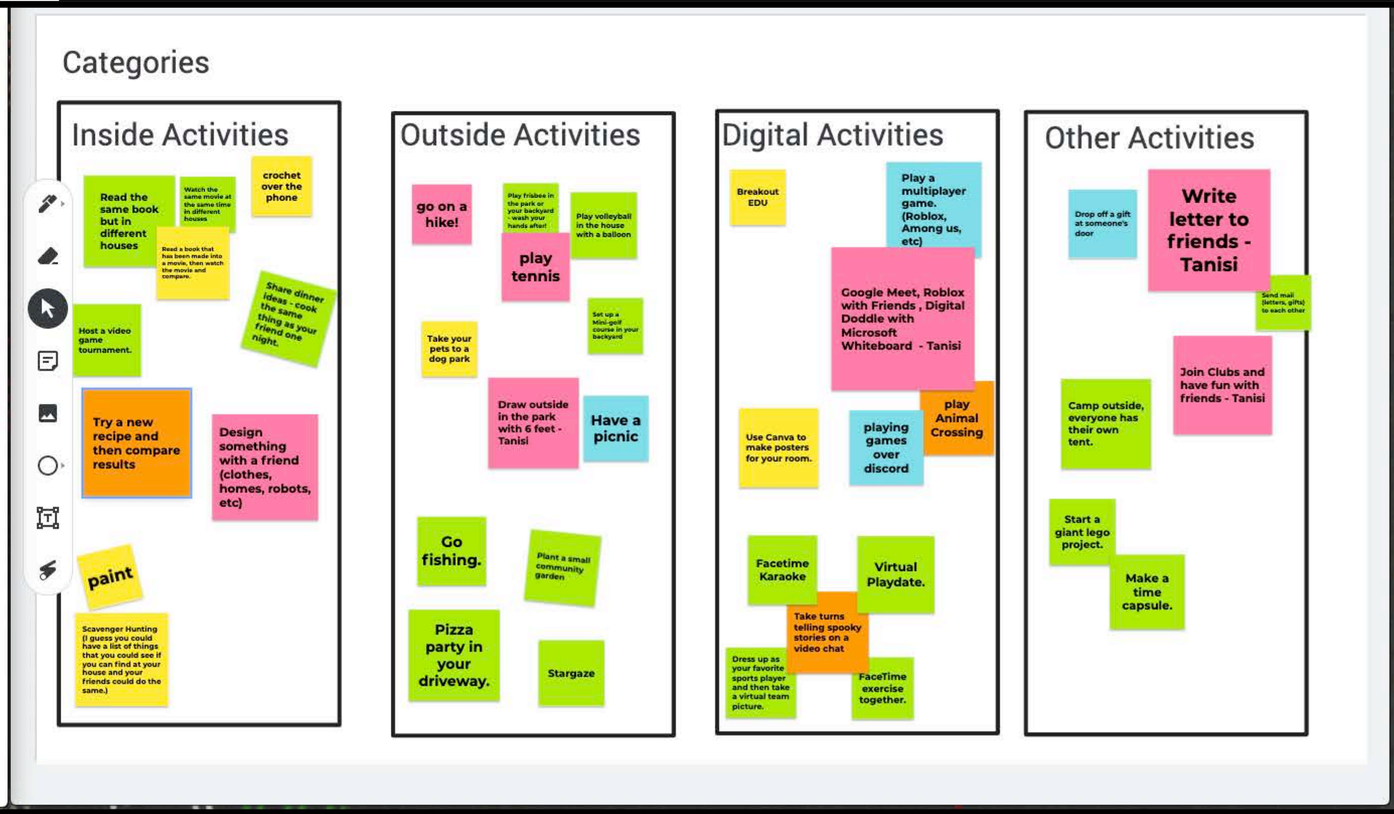
Intent	Entity
I'm hungry	Food: hungry

Outside Activities

Intent	Entity

Digital Activities

Intent	Entity

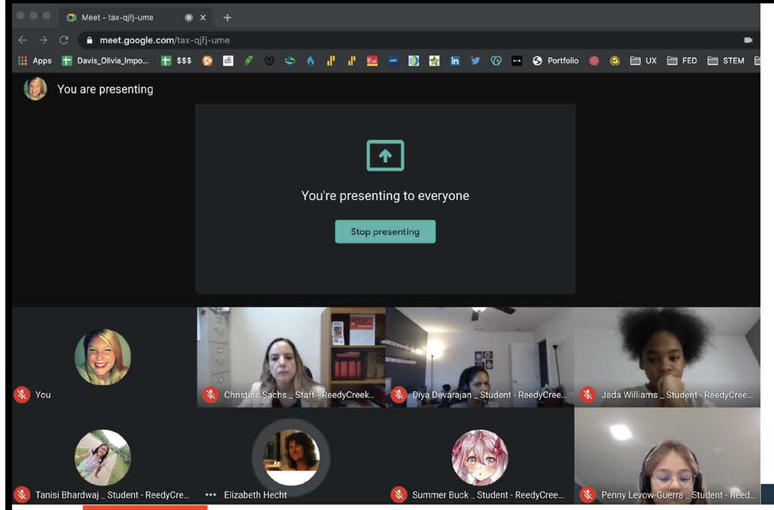


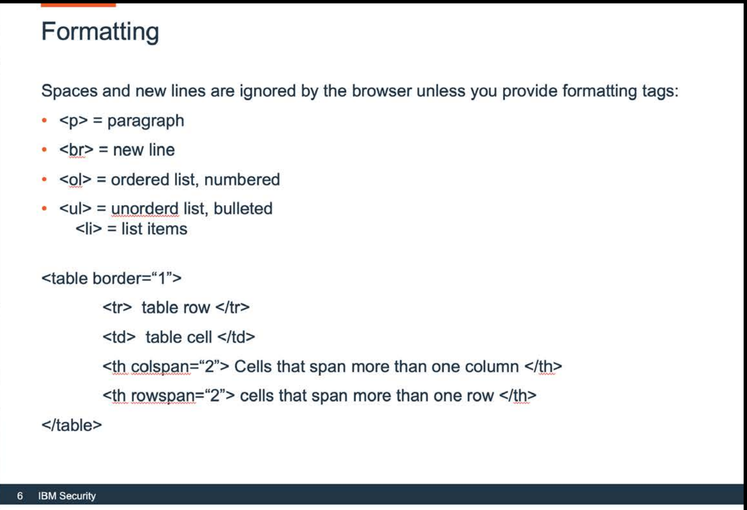
Intro to HTML and CSS

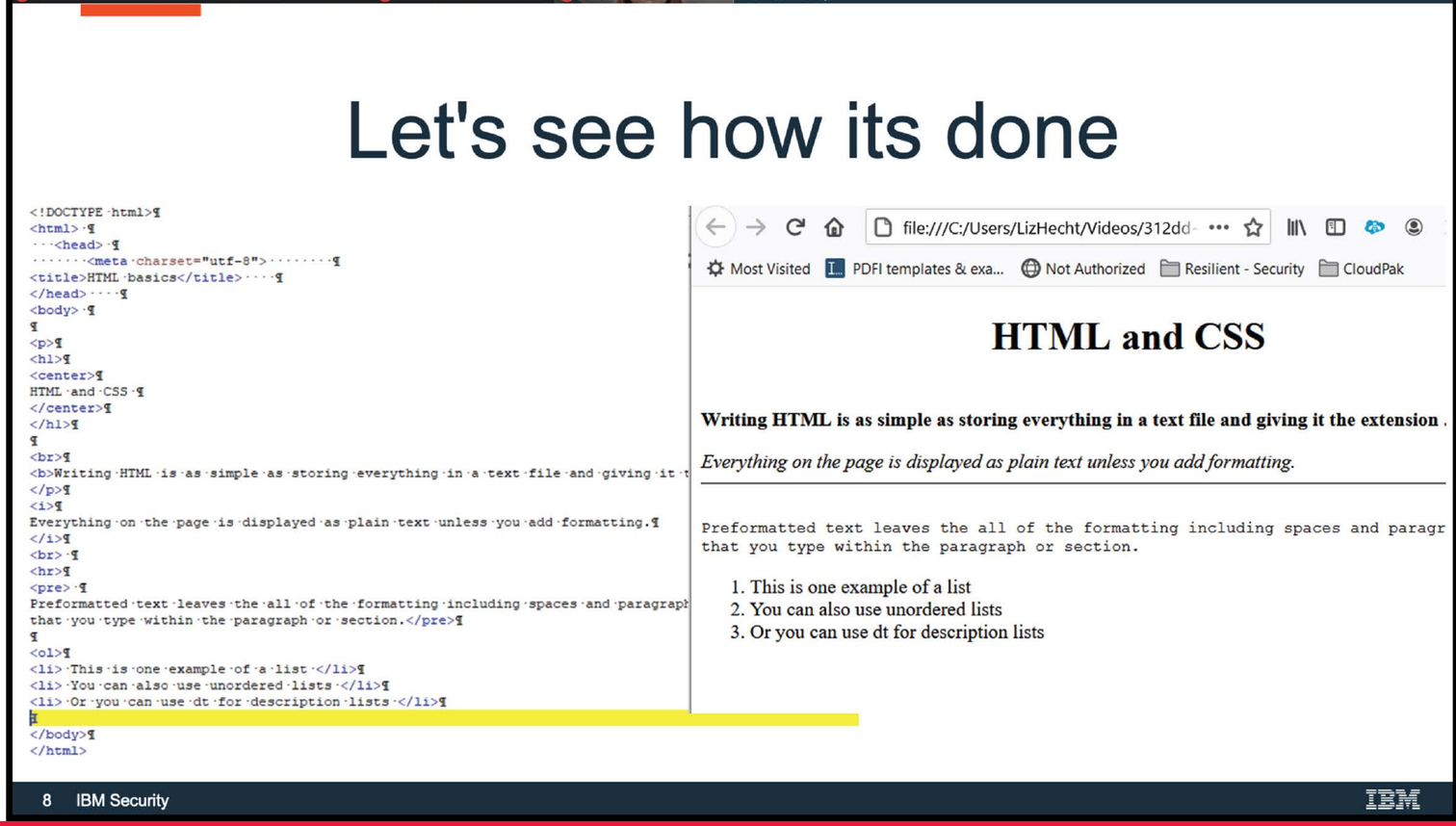
Week 5

- Presentation:
  HTML/CSS 101 with Liz Hecht, Software Support Engineer

- Activity:
  Get an HTML page running locally







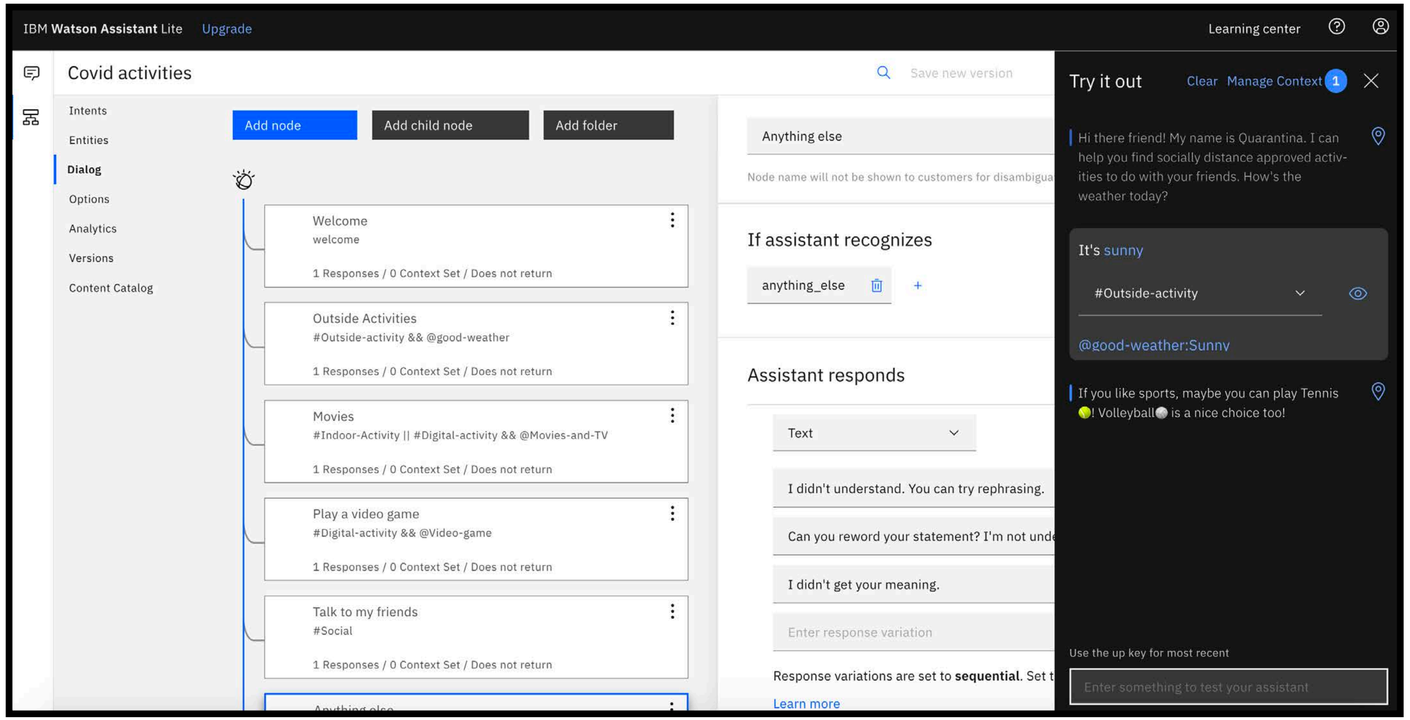
Writing Dialogues in the Chatbot

Week 6

- Spotlight Video: Fran Kalal - a Cloth and Simulation Technical Director at Pixar Animation Studios and has tailored outfits and simulated shots on “Up,” “Brave” and “Inside Out.”

- Presentation:
  How dialogues bring the intents and entities to life and make them conversational.

- Activity:
  Create dialogues



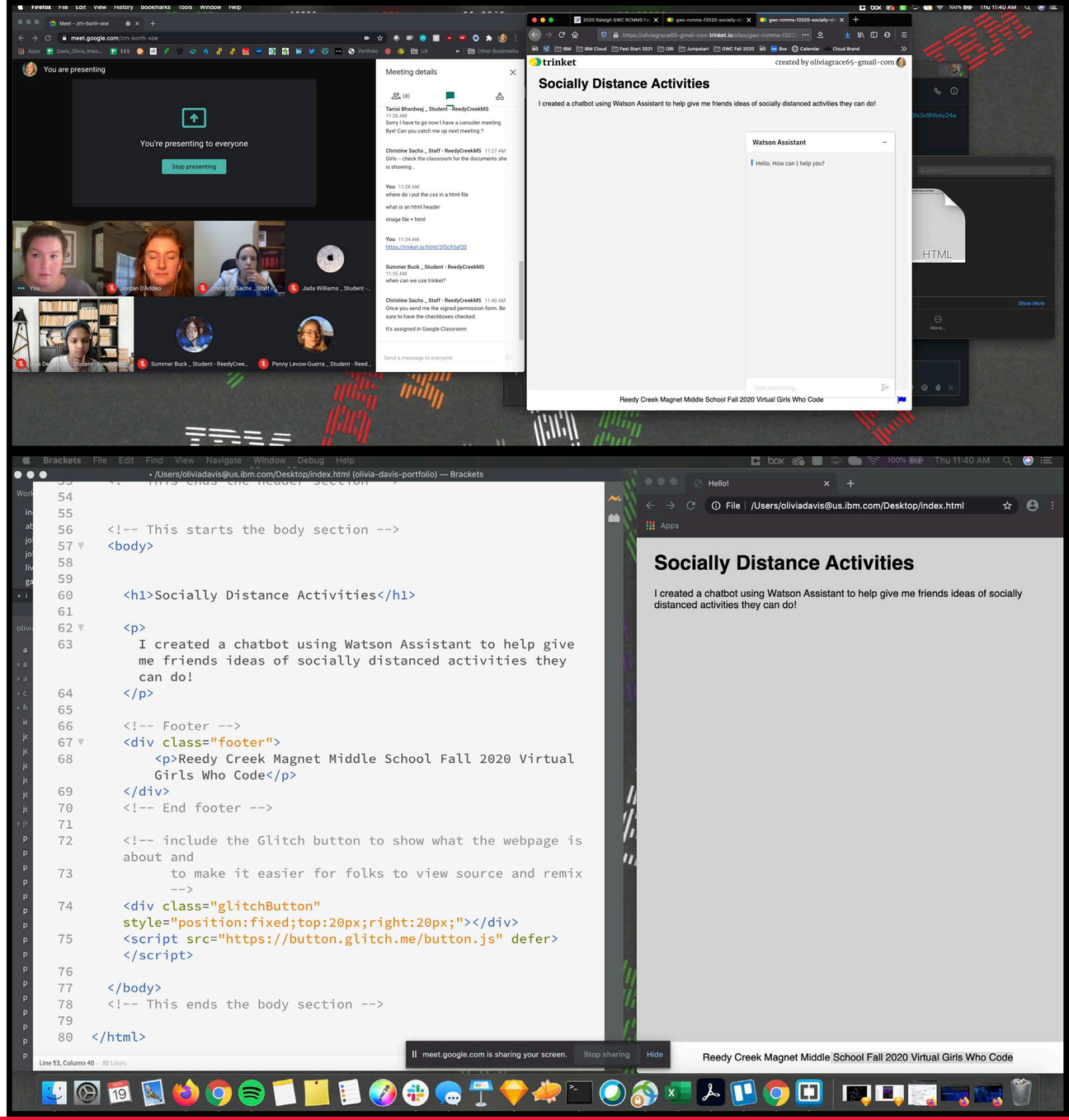
Writing Dialogues in the Chatbot

Week 7

- Spotlight Video: Danielle Feinburg - Director of Photography at Pixar.

- Set up Trinket accounts to work on HTML page that will hold the chatbot

- Activity:
  Practice HTML/CSS in Trinket



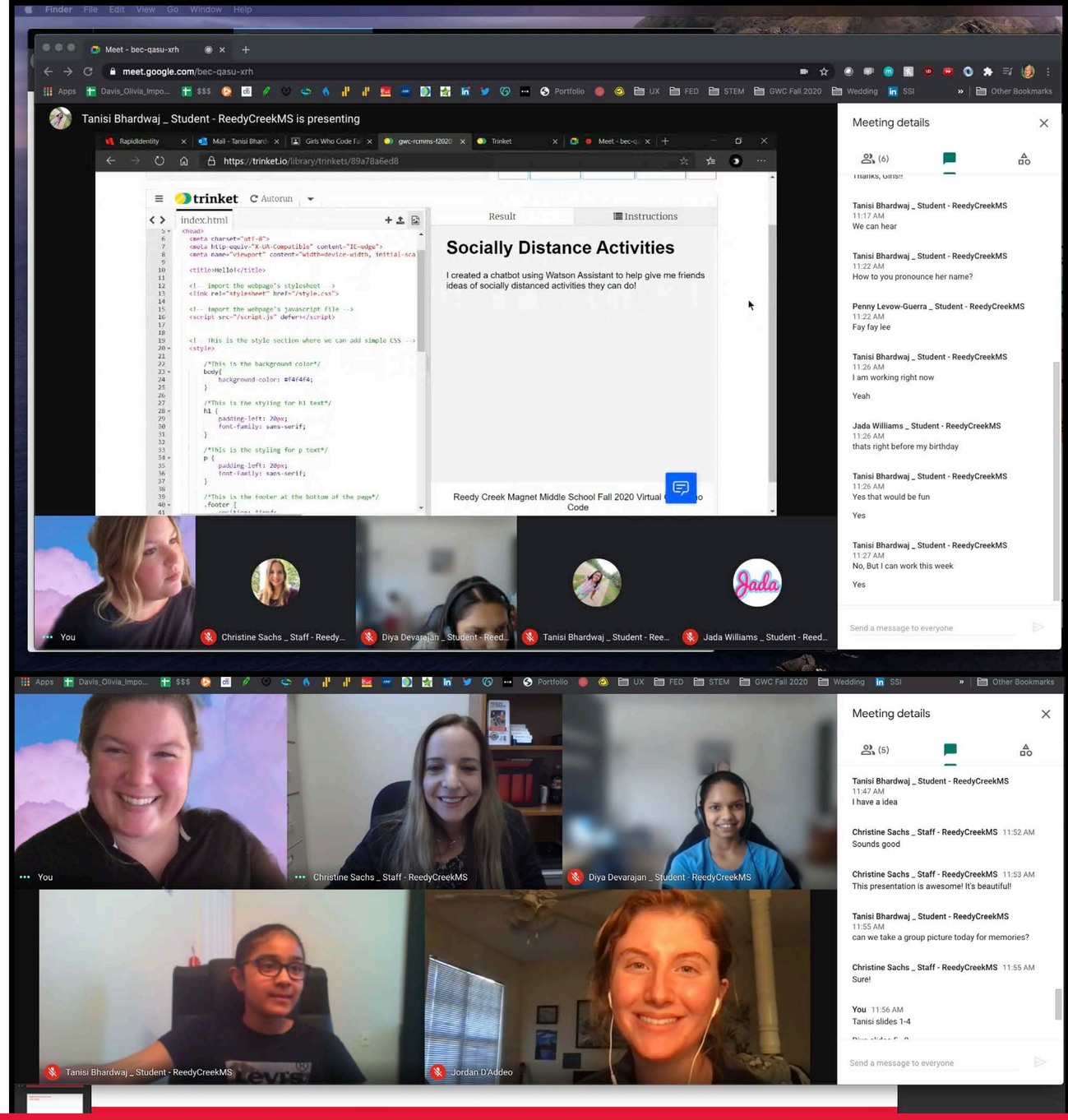
Working Sessions

Week 8

- Everyone created their own trinket to create their own web page to hold the chatbot
- Test the chatbot and add more intents, entities, and dialogues

Week 9

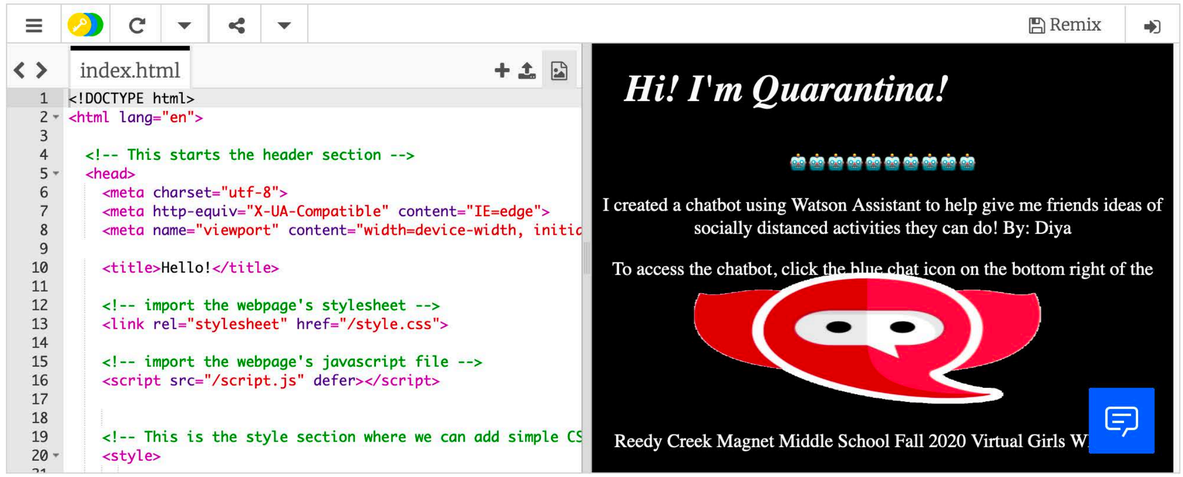
- Spotlight Video: Ayanna Howard - Dr. Howard has developed robots that are learning to inhabit Mars with NASA.
- Spotlight Video: Mathangi Sri - Head of Data Science at PhonePe, a financial technology company whose goal is to make digital payments so safe and universally accepted that people never feel the need to carry cash or cards again.
- Spotlight Video: Fernanda Viégas - Founded Flowing Media, a startup that specializes in using data visualization to express ideas and tell stories.
- Peer reviewed and tested HTML pages on trinket
- Final changes to the chatbot



Our Webpages

Sharing the Chatbot and Webpages

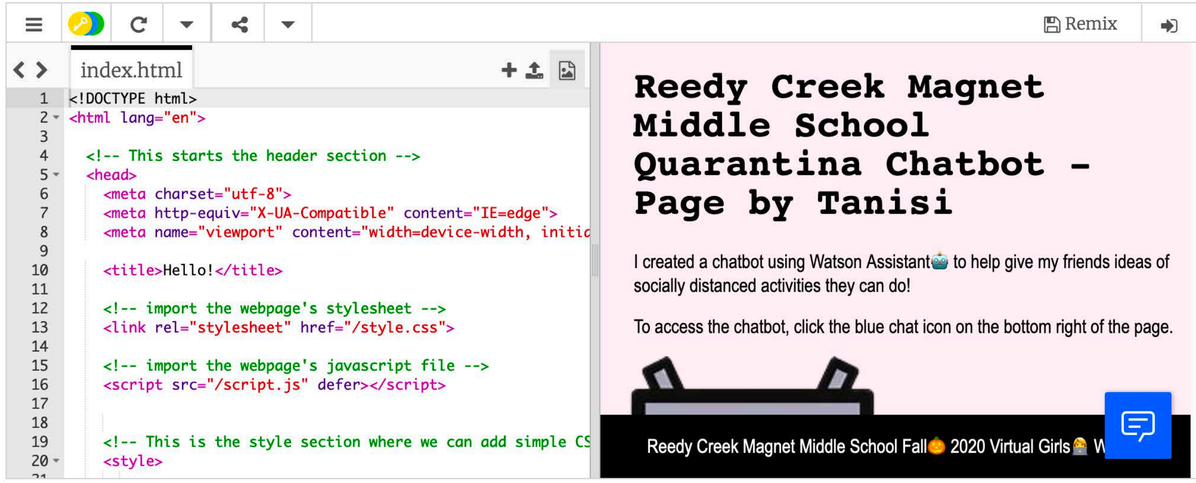
Diya's Webpage:



Fullpage URL: https://dsdevarajan-students-wcpss-net.trinket.io/sites/gwc-rcmms-f2020-socially-distance-activities-remix

Code view: https://trinket.io/html/ad3685467e

Tanisi's Webpage:



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Code view: https://trinket.io/html/89a78a6ed8

View the chatbot:

Use your phone camera to pull up the chatbot:

Chatbot URL: https://web-chat.global.assistant.watson.cloud.ibm.com/preview.html?region=us-south&integrationID=1702efc8-e047-444f-9961-08cb0629aff5&serviceInstanceID=256f0154-9752-4ca8-9a32-42688c93dd19

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