Saksham Prajapati APS Public Engagement Intern

MATCHING WITH CODING

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Hello! I AM SAKSHAM PRAJAPATI

International Student from Nepal
University of Missouri – St. Louis
Astrophysics with CS minor





Matching Teachers with Physicists

- O Classroom Experience from Physicists reference
- Early exposure to Science
- Building interest for STEM career

How did we match in the past

- Sign up forms for teachers and physicists
- Final excel sheet
- Manual Matching
- Email to notify

Feedback from Last year

- o Time zone Issue
- Science Communication
- OSuggestion to improve process of matching

Creating Sign up for 2022

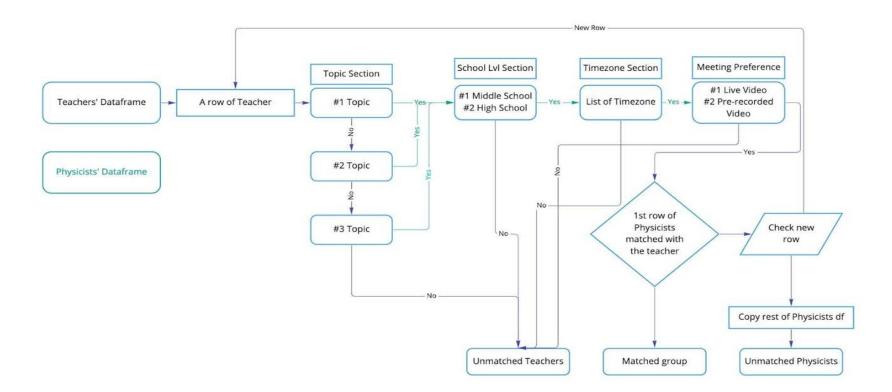
- Multiple Topics Option
 - Three choices on the basis of prioritization
- Time zone option
- Pre recorded or Live video
- School Level
 - Middle School
 - High School
- Teacher's Physics/Science class level

Physics Content	Application of Physics
Quantum	Science/ Engineering Practices
Astronomy	STEM based career
Earth Science	Physics in Everyday life
Electricity & Magnetism (etc.)	

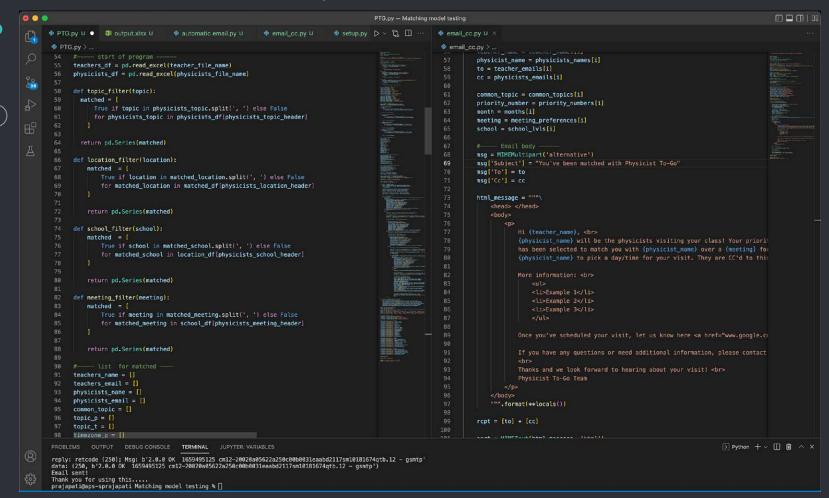
Fixing with Coding

- Creating a Python Program
- Matching Parameters:
 - Topics
 - Meeting Preference
 - Time zone
 - School Level
- Excel Sheet is created
- Email Program

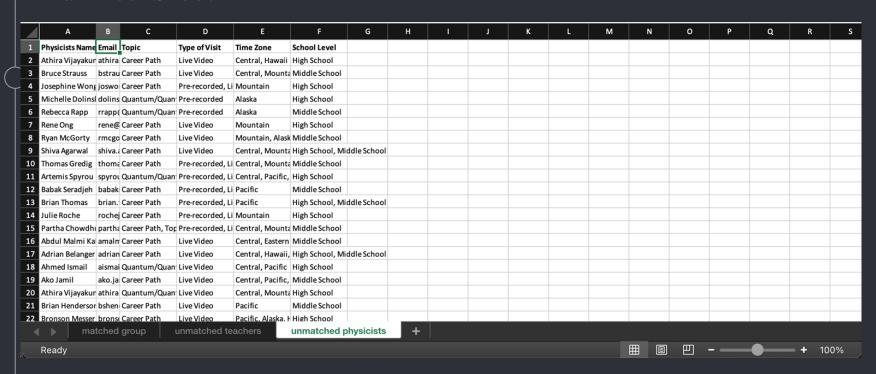
Flowchart of Program



Script Screenshot



Final Excel Sheet



Challenges

- Sometimes you don't have to go according to the plan
- New Programming Language
 - O Stack Overflow and YouTube





Future of Physicists To Go

Making a better platform

- Create profile for Physicists and Teachers
- Ability to browse through profiles
 - Filter option
- Chat embedded website

