Source: Aman Kumar

**Requirements** (Physics)

1. How does your piece of the project fit into UPOD?

Relatively self explanatory question. The website is composed completely of physics research and information. **The research will be broken down into the following categories:**

a. Topics covered (according to elementary extent)

i. Explanations (with analogies?)

ii. Interactive diagrams (concepts)

iii. Links to videos

iv. Formula sheet?

b. Equations (relative to topics) – to be used in relation with MathJax and team

i. Units and explanations for each variable

ii. Rearranging

iii. Sample problems (link to External websites)

2. Who will use your piece of the project?

**The information we provide will be used by the following teams**:

a. MathJax Team

i. All equations/formulas researched will be given to the MathJax team, if they have any questions or need any clarifications, they are welcomed to reach out to us

b. Animations Team

i. We will work together with the animations team to come up with unique ways to demonstrate the relative physics information

c. Front-end Team

i. All explanations will be given to the front-end team in a manner that results simply in copying and pasting the information to the appropriate page. Again, if the team has questions or needs clarification, they are welcomed to contact us

3. What needs to be in place for your piece of the project:

a. MathJax primarily (for equations)

b. Folder to store researched files and documentation

i. Topics > Sub-topics

c. Appropriate software for animations (see animations team)

4. List all main features:

a. Explanation of each topic covered (to the elementary extent)

b. Insightful explanation of the subtopics

i. Includes animations

ii. Links to sample problems

iii. Equations related to subtopic