

IDEA-IMPROVED SIMULATION SOFTWARES

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B TECH, 6 SEMESTER, ECE

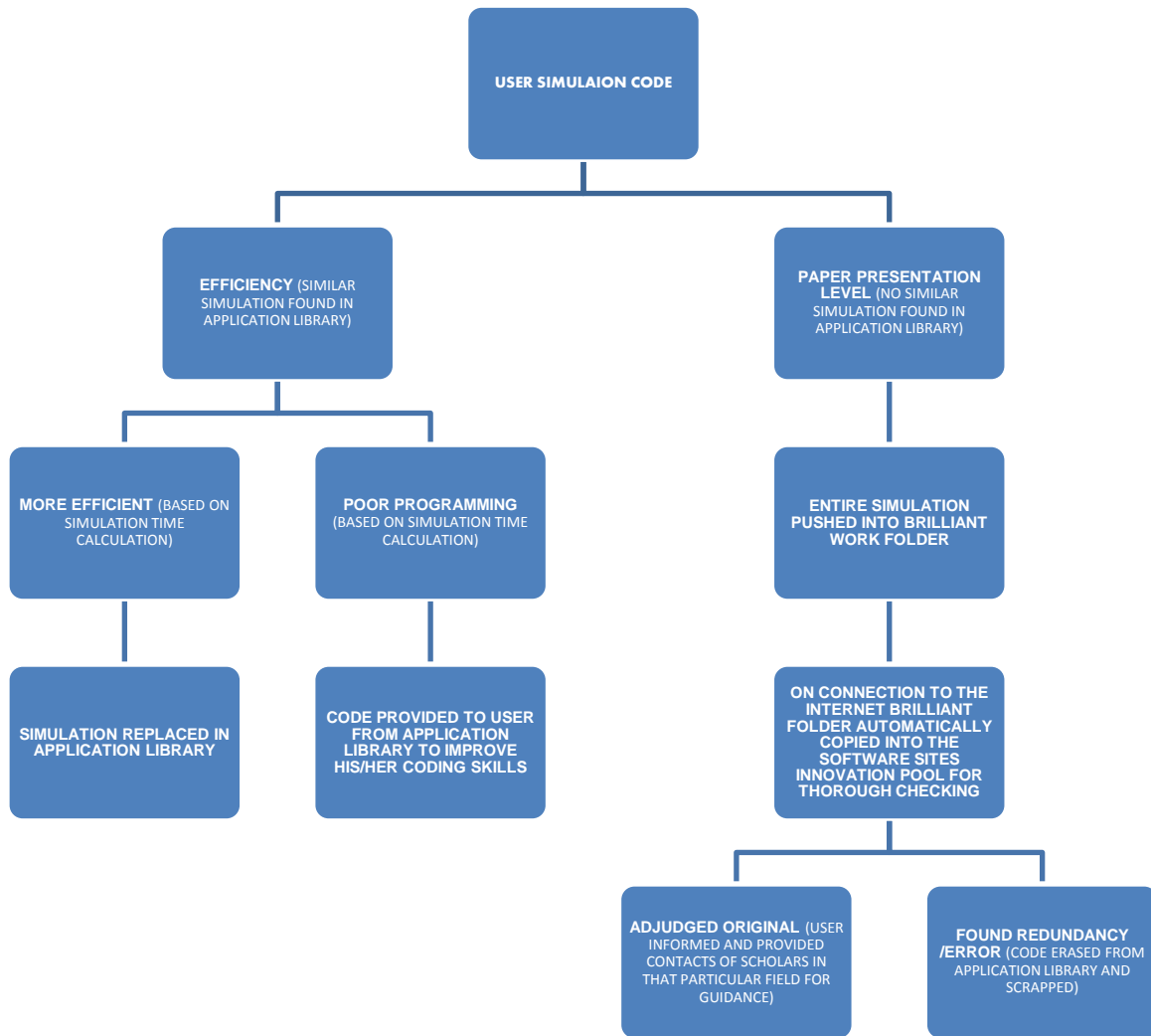
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An abstract has been presented in the following document to ensure originality and authenticity of the idea when prototyped. However a detailed version may be furnished if the idea is adjudged highly feasible.

The idea is to equip simulation software with a library other than the inbuilt library which for now will be called "APPLICATION LIBRARY", a folder called "BRILLIANT WORK", a simulation time calculator and additional windows, checks and coding to synchronize use of these added features with the software. The Application Library is aimed at containing codes of various simulations in different fields. The Brilliant folder is aimed at containing work of the user that has high potential of original paper presentation.

WORKING

Consider a user who has simulated a problem statement. The user is asked to store the simulation in a particular manner mentioning field, specific area, his/her name and name of the code. For eg. Microwave_coplanarwaveguides_Sudha_lpf. Now a search is run in the application library for a similar simulation and an instant comparison of simulation time is done to determine efficiency. If the user's code is more efficient it replaces the already existing code else the user is furnished with the existing code for improving his/her coding skills. If no similar simulations are found in the application library the code is automatically saved in the brilliant work folder. Now as and when the user connects his/her work station to the internet, the contents of the brilliant work folder will get copied into the software's innovation pool for checking. The checking can be done in a 2 level process. Inviting scholars working in that field to join their forum. Putting up the code to be viewed for comments. Thus if the code is found authentic and correct it will be uploaded in the application library. Also the user will be provided with an opportunity to present a paper in that field under the guidance of suggested scholars.



ADVANTAGES ON THE USER SIDE

1. *Better Coder*- After the user has finished simulating his problem statement if a similar simulation is found in the application library and the user code is found to be less efficient, the code from the application library is furnished to the user for improvement.
2. *Acknowledgement of potential*- If a coder's simulation is found to be more efficient, his/her code replaces the previous one thus motivating the user.
3. *Opportunity*-The users work copied into the sites innovation pool if adjudged original, the user will be informed and provided with an opportunity to work under the guidance of scholars.
4. *Better experience*

ADVANTAGES ON THE SOFTWARE SIDE

1. *Versatility*- By keeping an account of the users work the software designers will be able to see the various fields of implementation and also the diversity of problem statements that are worked out using their software.
2. *Easy Development*- Given that the software designers will have a better look of the use of their software, it will be easier to develop the software and increase its usage.
3. *Increased Users*- With the users being provided better opportunities to improve their coding skills and also publish their work the software will develop popularity amongst technical groups and associations.
4. *Automatic upgrade*- Whenever a user's simulation is found to be more efficient the application library will get updated thus allowing the software to upgrade and grow with every piece of simulation carried out through it.
5. *Bigger opportunities of commercialization*