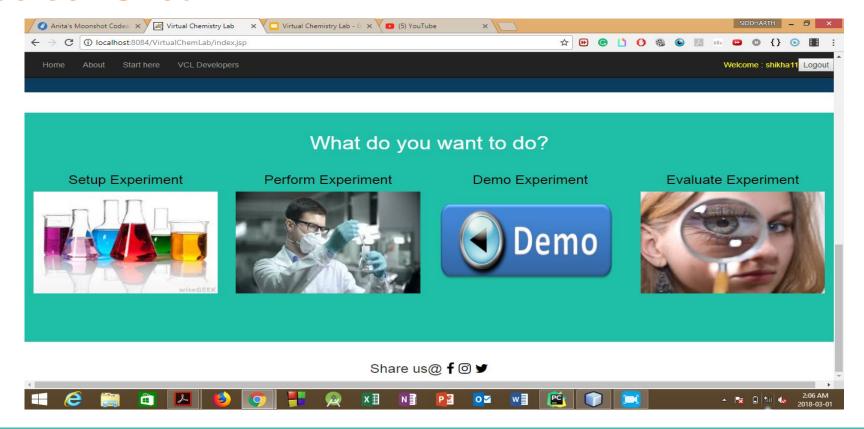
Virtual Chemistry Lab

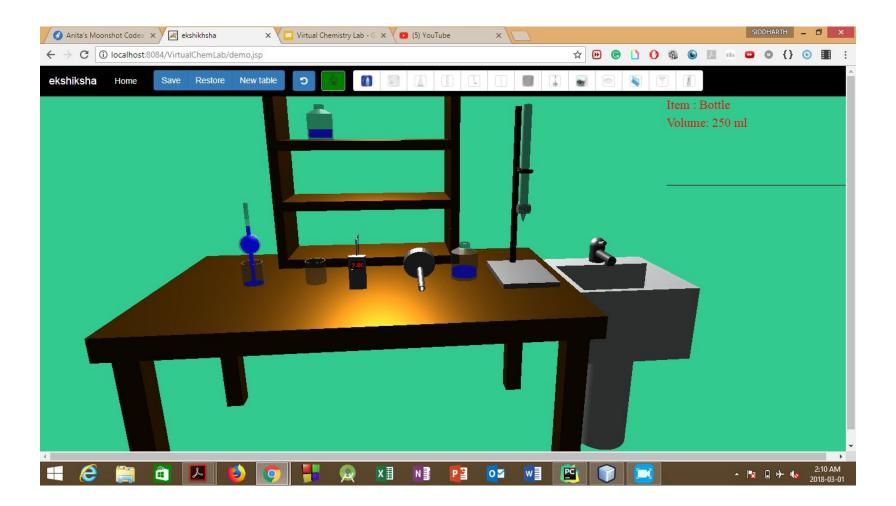
By:- Shikha Singh

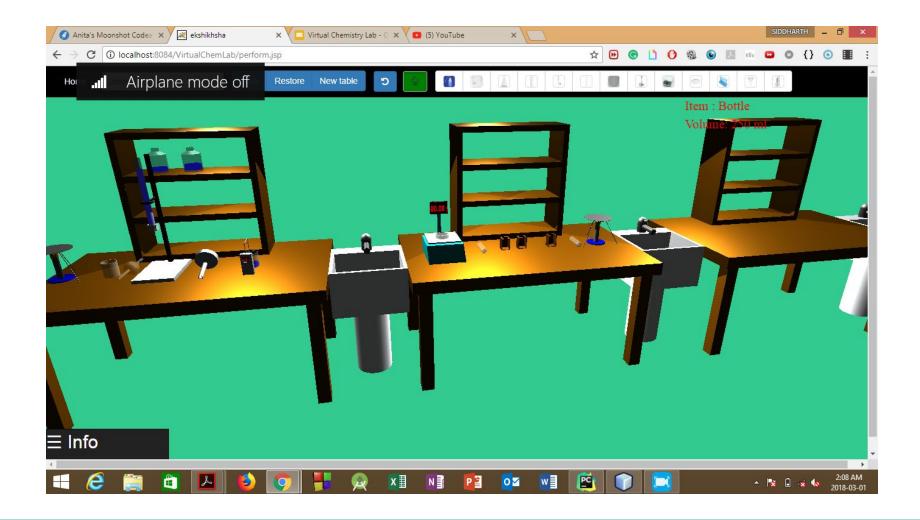
Objective

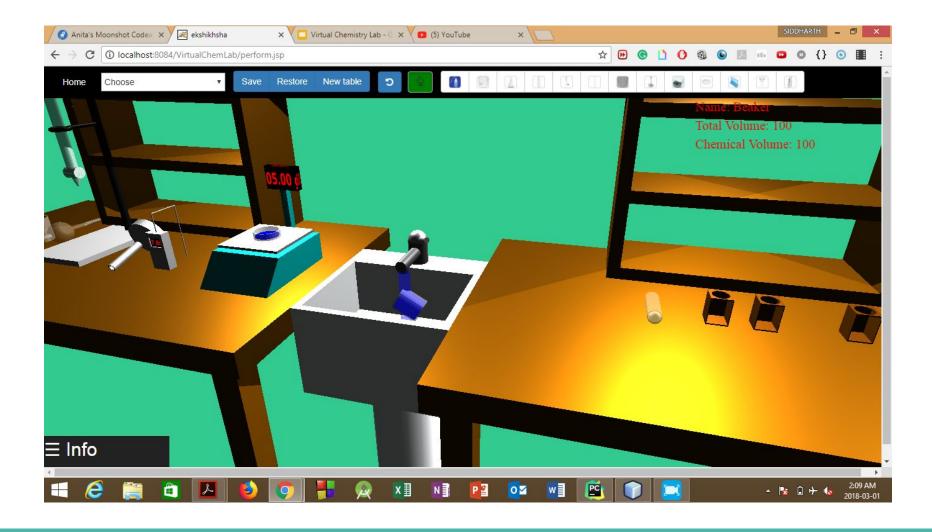
- Chemistry Lab Experiments Concepts in a more efficient manner.
- To bring Chemistry lab to PC.
- To Allow Setting, Performing, Evaluating and Viewing Demo of an Experiment.

Screen Shot









CHALLENGES FACED

- Creating 3D Objects Using three.js
- Implementation of Sucking and Pouring Action of Pippet
- Adding Dynamic tables
- Listing out all chemicals properties
- Save Functionality(Creating and Saving Journal)
- Undo Functionality

Results and Conclusion

- Provided implementation of Lab Equipments, Providing feature to perform an experiment, view demo of an experiment, evaluate an experiment(by viewing demo of what student did) and create new experiments.
- Provided more interactive way for performing and learning Experiments.

Future Scope

- More Equipments, Chemicals and reactions can be added to expand the Virtual Chemistry Lab.
- It may be possible to implement real time Virtual Chemistry Lab where students can perform experiments on different table of same setup and teacher can evaluate in real time.

Thank You