



CS307 -System Practicum

Code  ing



OUR TEAM



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ABOUT CODEWING



CodeWing is a collaborative editor that allows several people to edit, view, compile a programming code simultaneously over a computer network. Users can edit the same code, run the code, can chat through the text box in real time.

Features



Collaborative Coding



Video + Audio Calling



RealTime WhiteBoard

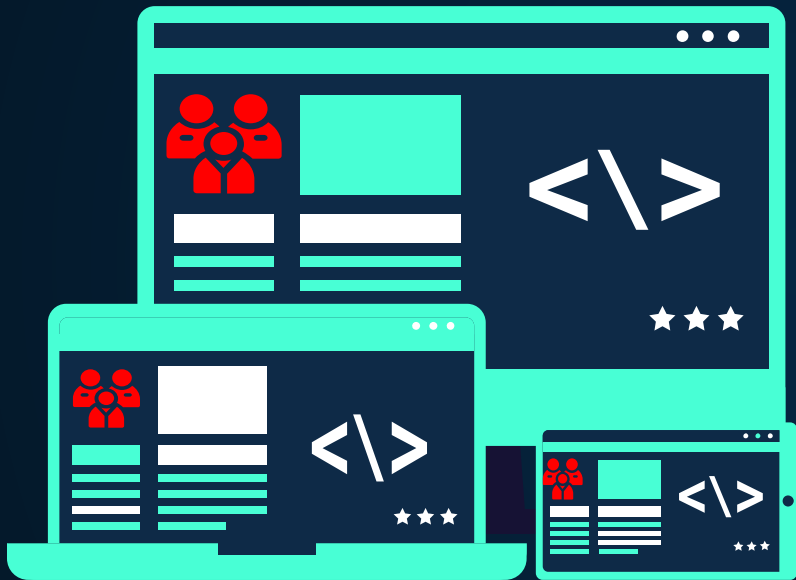


RealTime Chatting



Code Download

COLLABORATIVE CODING



Everyone on the meeting can
edit and run the code



Implemented using Realtime
Firestore



Video + Audio Calling



People can see each other
and talk to each other



Implemented using Node.js
and Peer.js



Server hosted on Heroku



Real-Time WhiteBoard



Everyone on the meeting can scribble
on the whiteboard using mouse



Implemented using Socket.io



Server hosted on Heroku



Real-Time Chatting



People in the meeting can text with each other



Implemented using Socket.io



Server hosted on Heroku



Application

This image shows our working application



Hosted on Github



Made using Svelte.js



Code

```
1 for i in range(10):  
2   print(i)
```

0
1
2
3
4
5
6
7
8
9

Shubham Saurav

Write a message

hi shubham

pk

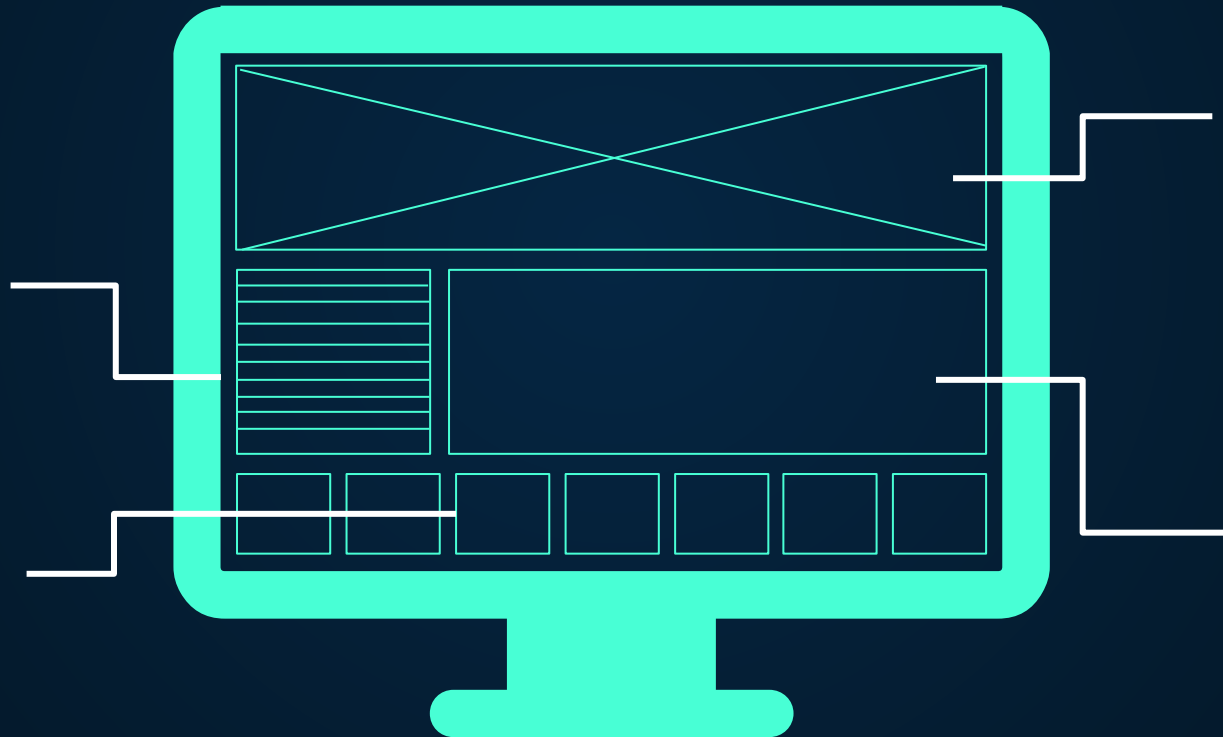
Shubham Saurav
Hi Prashant

Try it

WhiteBoard



DEMO



Benefits



Challenges Faced



- While implementing whiteboard, the board components were not getting updated parameters.
- While fetching the server, data was not getting send to the server in svelte.js .
- While implementing video-feature, socket was not able to directly connect to video-server.
- Python shell and Require module was not importing in svelte.js while compiler API.

Conclusion

- User friendly
- Can be used by anyone and everyone for projects and coding purposes.
- Use of several frameworks to make it more efficient and effective.
- We can commercialize it by adding more features.



References



- <https://stackoverflow.com/questions/23450534/how-to-call-a-python-function-from-node-js>
- <https://firebase.google.com/docs/database>
- <https://www.youtube.com/watch?v=DvlyzDZDEq4>
- <https://github.com/chithakumar13/Share-Code>
- <https://socket.io/>





THANKS!