

Introduction

We want to build an efficient alternative to using learnpoint/zoom/basecamp/discord to distribute assignments and work together in groups. Our project idea would facilitate parts of all services listed above and make it easier than ever before for a teacher to publish assignments, group together students, administer projects and more. It would also be easier for students to share work within their group and present it to the teacher, as well as keeping track of different classes and assignments.

While not necessarily a replacement for learnpoint, it expands the functionality of learnpoint out into the sphere of instant messaging, where students today have to use unofficial tools for communication.

MVP

- Multiple user roles; teacher, admin, student.
- Multiple channels administered by teachers.
- Ability to add student to channel by teacher action or link.
- Teacher can add channels to program.
- Teacher can assign students to groups.
- Integrated basic whiteboard functionality; independent of channel.
- Project / assignment accessible easily within channel
- Channels should be lockable to specific students.
- Ability to tag teacher for help within a channel.
- Channels are program-specific.

Extra features

- List of groups looking for students.
- Advanced whiteboard functionality.
- Screen sharing

Technical requirements

- The app is completely browser based. In order to use the app, a user should only need a browser. There should be nothing extra to install.
- Code libraries that are used must be MIT or something similar. No proprietary libraries are allowed.
- Only free services are allowed. Frontend hosting, database services must be free. You can use Netlify, Heroku, GitHub Pages, Firebase, etc, but you are not allowed to use any paid subscriptions for any services.
- All developed code must be hosted on a public GitHub repository.