

Prep Lab

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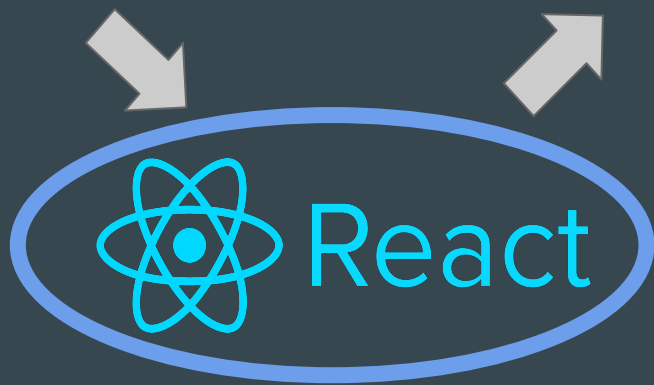
Multimedia/Hypertext - CS_4624 - Fox
Virginia Tech, Blacksburg, VA 24061
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Outline

- Project Design
- Current Progress
- User Testing
- Demo
- Problems & Issues
- Future Work
- Lessons Learned
- Acknowledgements
- References



What is PrepLab



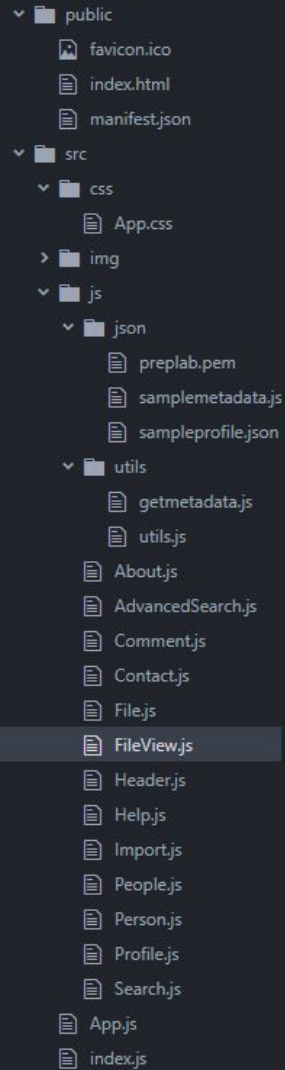
Project Design

- Online repository to help instructors reuse and remix course material
- Majority of use cases will be graduate students
- Using React, CSS, and JSON
- Development was done using GitHub repository, Atom IDE, and NodeJS



Current Progress

- Pseudo Login
 - User persist just for session (no back-end) for testing
 - Hide Profile page, People page, as well as Upload Resource form behind login
- Mobile friendly
- Basic search functionality
 - Is only be connected to our sample data
- Add more fields to resources
 - Class, class size, number of downloads, comments, tags, etc
- Additional UI Improvements
- Testing
- Documented code for future PrepLab teams



User Testing

- Task 1: Finding “CHEP Presentation” file
- Task 2: Logging in using a given login
- Task 3: Viewing Own Profile
- Task 4: Viewing a specific user’s profile
- Task 5: Submitting a file with specific options
- Task 6: Comment on “CHEP Presentation” file
- Task 7: Delete “How PNG Compression Works”
- Task 8: Edit “Example PNG File” file
- Task 9: Logout
- Task 10: Register an account to PrepLab

Overall, all tests passed our usability goals

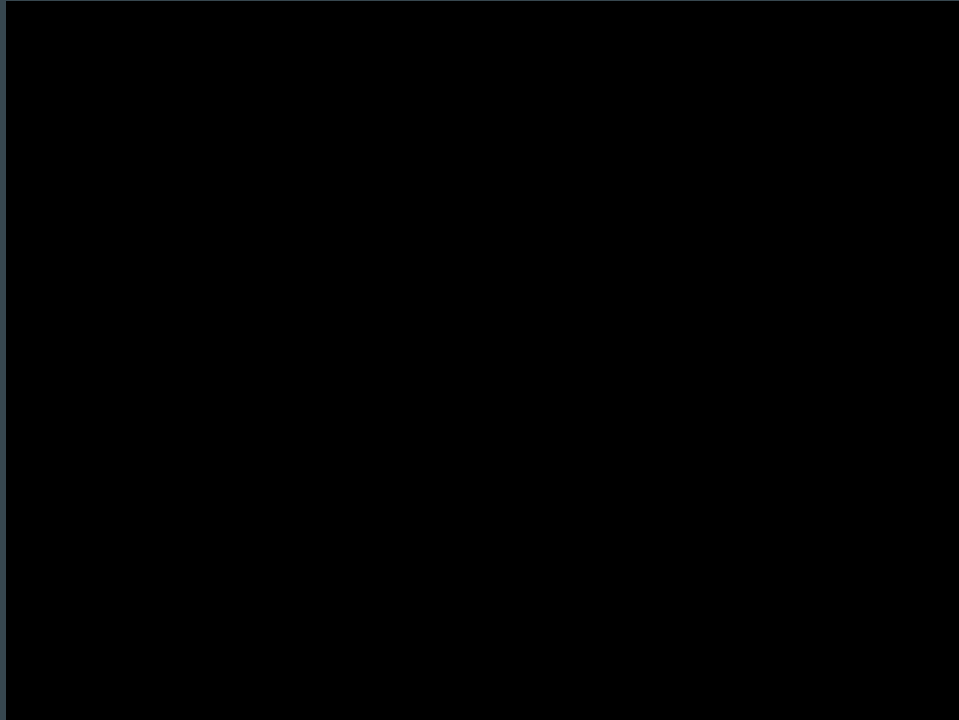
User Testing Survey

- Task 1: Finding “CHEP Presentation” file
 - Time:
 - Ease of Use:
1-5 (5 being hard, 1 being no difficulty)
 - Number of Mistakes:
- Task 2: Logging in (use “crowned1@vt.edu: preplab”)
 - Time:
 - Ease of Use:
1-5 (5 being hard, 1 being no difficulty)
 - Number of Mistakes:

Live Demo

Link: <http://3.18.234.84:3000/home>

Mobile Demo



Link: <http://img.chartio.com/fl219dd4f269>

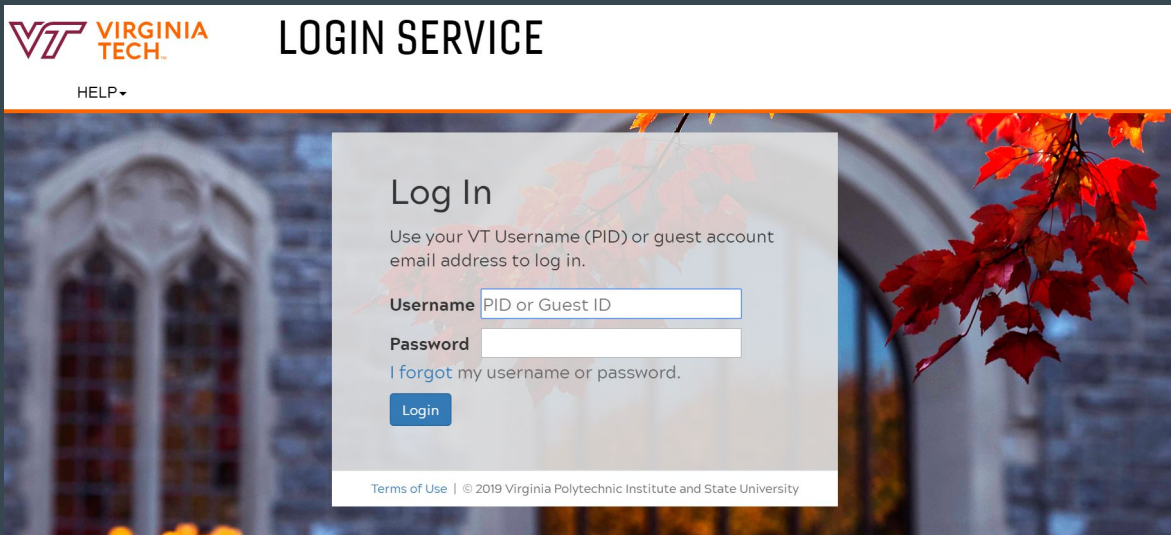
Problems & Issues

- Testing site without full functionality
- Being able to test hooks properly
- CSS can be fickle



Future Plans

- PrepLab 2 is complete
 - Nothing left for our team to work on in code base
- Setup Database
 - NoSQL
- Fully functional API
- User Support
 - Login
 - Advanced Search
- Expansion and Adoption
 - Looking for GTAs to join



The screenshot shows the Virginia Tech Login Service interface. At the top left is the Virginia Tech logo (VT VIRGINIA TECH.) and a "HELP" link with a dropdown arrow. The main heading is "LOGIN SERVICE". Below this is a "Log In" section with the instruction: "Use your VT Username (PID) or guest account email address to log in." There are two input fields: "Username" with the placeholder text "PID or Guest ID" and "Password". Below the fields is a link that says "I forgot my username or password." and a blue "Login" button. At the bottom of the form, there is a footer: "Terms of Use | © 2019 Virginia Polytechnic Institute and State University". The background of the login form is a blurred image of a building with Gothic-style windows and red autumn leaves in the foreground.

Lessons Learned

- Creating a fully-formed idea of app with all functionality from the beginning
 - More thoughtful design during early iterations
 - Break down into more reusable components sooner
- Have more solid deadlines
 - Would have allowed more iterations
- User test more frequently
 - Catch bugs, design flaws, and not UX friendly designs sooner



Acknowledgements

- Darren Maczka: Client - dmaczka@vt.edu
- Rest of PrepLab Team: Leanna Ireland, Britton Hipple, Sara Donnelly
- Dr. Fox: Professor of Computer Science - fox@vt.edu



References

How to host: <https://www.sitepoint.com/getting-started-react-jsx/> 2016 - Shandeep

PandaReact: <https://reactjs.org/docs/add-react-to-a-website.html> 2019

ReactRouting: <https://tylermcginnis.com/react-router-url-parameters/> 2018 - Tyler McGinnis

Sticky Footer: <https://philipwalton.github.io/solved-by-flexbox/demos/sticky-footer/>

Website Used for UI Reference: National Science Digital Library - <https://nsdl.oercommons.org>

Current PrepLab Blog - <https://blogs.lt.vt.edu/preplab/>

Questions or Comments?