

EE / CprE / SE 492 - sdmay23-06

Production Run Reports

Week 6 Report

March 24th - April 7th

Client: JEDA Polymers

Faculty Advisor: Dr. Stoytchev

Team Members:

Colton Carlson	-	Team Lead, Backend, Email API
Hayden Havelka	-	Backend, Database Querying
Jay Arnold	-	Backend, User Authentication
Connor Linn	-	Frontend
Noah Meyer	-	Frontend

Past Week Accomplishments

- **Colton:**
 - Whenever anyone would send an HTTP request to the backend, even if it was not an authorized call, it would result in authentication exceptions being thrown.
 - Issue was the backend always checked if the front-ends cookie was valid, even on non-authorized methods.
 - Solution was to write custom middleware that will handle an exception by an invalid cookie, and remove it from the response (resulting in it being removed from the end user's browser as well).
 - This solves the issue as the backend now knows what to do in the event of an invalid cookie on an unauthorized endpoint.
 - When running the production build of the application on a standalone device, the pdf would not display.
 - Issue was with react-pdf library, the worker was not included in the bundling.
 - Solved by downloading a copy of the worker, saving it into the public folder of the client-app, and using that instead of the unbundled version.
 - Format error messages with front end
 - Standardized how messages were being passed between front-end and backend, so now when the user needs to be notified of something (like check their email, or incorrect login credentials) the browser will display the error or message.
 - Logging modifications
 - The previous implementation of logging would log in the format of “{work order number}: {message}”, which is an issue if two users submit

the same work order number, and one causes an error message but the other doesn't, there is not identification per call.

- Solved by adding GUID's to each controller, now ever individual call has its own GUID and can be confidently identified, new format is "{GUID} : {Message}"

- **Hayden:**

- Proof read README after it was written by Jay
- Started readings on different types of unit testing for future troubleshooting and discovery of additional edge cases

- **Jay:**

- Wrote a README for the clients to use for troubleshooting and product usability.
 - Basic project description
 - How the authentication works
 - How to use the project to its full potential
 - How to customize the appsettings.json for local configuration settings
- Started to work on an email confirmation function, but then some things changed which made the work not needed.

- **Connor:Frontend Development:**

- Finished implementing user authentication on the Frontend.
 - Wrote backend end point for frontend auth checks.
 - Then implemented the frontend authentication checks

- **Noah: Frontend Development:**

- Finished implementing user authentication on the Frontend.
- Improved UI/UX of users when signing up for an account, confirming email, and resetting their password.
- Improved front and back end communication
 - Streamlined POST and GET requests and correctly show accurate error messages to users when something has errored.

Pending Issues

- **Team Member(s):** None

Individual Contributions

Team Member	Contribution	This Report Hours	Total Hours (492)
Colton Carlson	Wrote middleware for jwt authentication bug. Helped fix bundling issue. Implemented more log	40	185

	statements. Worked with frontend with displaying error messages to users.		
Hayden Havelka	Approved and proofread README	5	97
Jay Arnold	Wrote the README for the project	10	64
Connor Linn	Authentication	12	71
Noah Meyer	Finished off FE user authentication, improved UI of FE, improved integration of user management.	19	92

Plans for Coming Two Weeks

- **All:** Start Unit-Testing, help client with beta if needed
- **Colton:**
 - Start unit-testing
 - Mocking http post requests to external services.
 - Mocking calls to smtp server.
 - Writing unit tests.
 - Bug testing/fixing
 - Help with documentation
- **Hayden:**
 - Implement what I found in my readings on different types of unit testing for future troubleshooting and discovery of additional edge cases
 - Help mitigate issues found during client testing
- **Jay:**
 - Add an installation portion to the README once we know how the installer is going to work
 - Continue to add/change things to the README
 - Assist Colton in any way that helps him on the backend.
- **Connor:**
 - Testing, Respond to client beta, work with Noah on questionnaire
- **Noah:**
 - Continue client beta test.
 - Create an official questionnaire in order to gather specific feedback from the client by Friday April 21st.
 - Investigate potential bug fixes that the client might encounter throughout the beta.
 - Finish documentation.