

EE / CprE / SE 492 - sdmay23-06

Production Run Reports

Week 1-5 Report

February 18th - March 3rd

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, Login / Sign Up Pages
Noah Meyer	-	Frontend, Request Report / Display Report Pages

Past Week Accomplishments

- **Colton:** Backend Development
 - Investigated why canarywebservice.dll would not load correctly into our project.
 - Issue has to do with framework versioning, (Project uses: ASP.Net Core, dll compiled in .Net Framework 4.7.1)
 - System.IdentityModel is not supported in ASP.Net Core
 - Failed attempts to fix canarywebservice.dll
 - Added all .net framework dependencies as references to the project.
 - Dependencies would not load.
 - Found newer versions of the microsoft dlls that can be loaded as an older version but were missing methods.
 - Build the project as both .net 6.0 and .net framework 4.7.1.
 - Same issues as building the project by itself.
 - Make middleman .net standard library.
 - Had the same issues as if just trying to load the dll by itself.
 - Fix canarywebservice.dll so it can be loaded into the project.
 - Used dnSpy to remove the dependency.
 - Used dnSpy to export dll as a visual studio project.
 - Loaded this into a test .net 6.0 project, and that worked.
 - Compared results between GET requests and modified canarywebservice.dll
 - Based off trial runs, GET requests would take about 400-500 ms for unparsed data to return. While the dll would return parsed data in roughly 100 ms.
 - Modified canarywebservice.dll also only creates about $\frac{1}{3}$ of the compared to GET requests.

- Refactored old PDF generation code to work with how data queries will work.
 - Moved text styling to be static methods.
 - Implemented actual WorkOrder object that is used when parsing data.
- **Hayden:** Backend Development
 - Kept up communication with our contact at JEDA Polymers
 - Asked for additional information and clarifications on backend development
 - Scheduled and kept track of meeting time for client demonstration of project components
 - Gave client general updates about project to client and asked for feedback on various components
 - Finished user authentication
 - Added SQL database to the backend
 - Added secure way to authenticate users using data stored in SQL database (using microsoft ASP.NET Core auth library)
 - Researched and implemented SendGrid API for two factor authentication and account recovery/conformation
 - Finished recovery/conformation system (user authentication now has the ability to connect to email using free SendGrid API)
 - Started research on how to connect backend to frontend (React to ASP.NET Core)
- **Jay:** Backend Development
 - Played around with user authentication
 - Created project that used a local database to keep track of email and password of users
- **Connor:** Frontend Development
 - Solved all issues with interface due to project consolidation
 - Numerous pages had issues with styling and other errors when the pages were consolidated into a single project
 - Also worked on making sure there were no issues with working across multiple browsers
- **Noah:** Frontend Development
 - Put all of the individual react web pages into a single, cohesive application.
 - Using the React Router Dom library I was able to link all the pages together, allowing the user to navigate between all web pages.
 - Investigated how to implement the frontend with the backend
 - How to add user authentication to the frontend to limit unauthorized user access.
 - How to use Rest API to make the API calls to/from the backend.
 - Fixed some minor styling issues:
 - Uploaded an up-to-date PDF example to the frontend & fixed a few typos.

Pending Issues

- **Team Member(s):** ?

Individual Contributions

Team Member	Contribution	This Report Hours	Total Hours (492)
Colton Carlson	Refactored Pdf Generation Fixed canarywebservice.dll	50	95
Hayden Havelka	User authentication/Account Confirmation & Reset	22	52
Jay Arnold	User authentication	8	36
Connor Linn	Fixed issues with consolidation of pages into a single project	35	29
Noah Meyer	Compiled all React web pages into a single app that allows the user to navigate to each individual page.	17	47

Plans for Coming Two Weeks

- **All:** Finish integration in order to have a working beta version of our app.
- **Colton:**
 - Help integrate front and backend.
 - Set up reg-keys for runtime variables.
 - Things like database IP, smtp server ip. ETC
 - Finish total pounds parsed for pdf generation.
- **Hayden:** Connect webpage input from frontend (React) to authentication service and database on backend (ASP.NET Core)
- **Jay:** Integrate user authentication with Hayden. Integrate backend with frontend
- **Connor:** Integrate Frontend to backend
 - Help replace backends current temporary pages with our React pages
 - Make our react code work with the existing .NET code
 - Create any needed pages for backend functionality
- **Noah:** Frontend integration with the backend:
 - Add user authentication to the frontend.
 - Add the API calls to the frontend to allow connectivity with the backend.