

JusticeAI Iteration Summary

Iteration 7

Team Members

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Project Summary

[JusticeAI](#) ([ProceZeus](#)) is a web chat bot that aims to facilitate access to judicial proceedings involving specific domains of law. Users will have the ability to converse with the chatbot, describing in detail the situation for which they wish to pursue litigation. The system, which will leverage the power of machine learning and natural language processing, will guide the user through a process wherein they'll be prompted with a series of questions relating to their potential case allowing the system to ultimately determine, based on provincial jurisprudence, whether the user has a valid case worth pursuing in the judicial system. Alternatively, the system may also suggest remedies in lieu of legal action if it is deemed unlikely to be in the user's best interest.

Velocity

The primary focus of Iteration 7 was to complete the beta version of the application. This milestone allows a user to sign up to the website from whom we can gather data about common landlord/tenant concerns from various social media outlets. The information is then gathered using a chat centric landing page, as proposed by the product owner. This new feature will allow us to focus on adding functionality that will offer the most value to the average user based on obtained feedback.

During this iteration, we were able to complete **27** story points. This is slightly lower than our average velocity over previous iterations, but significantly higher than our previous iteration.

This is likely due to the fact that this iteration was completed after the holiday season, meaning most of the team was able to contribute more man hours to tasks on our backlog.

The following is a list of user stories that were completed in [Iteration 7](#):

- #229 - [Beta Web Client Vertical Responsive](#) (bug)
- #230 - [Google Analytics](#) (3 pts)
- #232 - [French Sign Up page](#) (5 pts)
- #234 - [Polish UI of sign up page](#) (8 pts)
- #237 - [DEV STORY: Research and implement production monitoring service](#) (3 pts)
- #235 - [Adding FAQ Questions from RDL](#) (8 pts)

Plan for Next Iteration

In the next iteration, we will be focusing on getting user data by deploying a basic website which will allow the user to ask question regarding rental. This data will allow us to focus our development efforts on the most frequently asked questions. We will also be training our ML to predict the total compensation that a user can get for their claim.

Shown below are the stories that we will be working on for [Iteration 8](#) for a total of **39** points:

- #236 - [DEV STORY: Establish platform on various social medias to acquire FAQ from their users](#) (3 pts)
- #264 - [Redesign beta page 2.0](#) (3 pts)
- #262 - [Migrate to Azure VPS](#) (bug)
- #261 - [Show precedents that are similar to the current claim](#) (8 pts)
- #260 - [Revamp Chatbot UI for primary application](#) (8 pts)
- #259 - [Add a question to determine if the beta user is a legal professional.](#) (3 pts)
- #258 - [Change Color Palette](#) (bug)
- #255 - ["Hamburger menu" the About Us tab on the sign up page](#) (bug)
- #254 - [Have chat windows scroll to bottom on the sign up page](#) (bug)
- #253 - [Have multiple chat bubbles in a row. One per sentence](#) (bug)
- #162 - [Remove previously understood fact](#) (3 pts)
- #210 - [Ask only fact questions that are relevant to lease resiliation](#) (3 pts)
- #251 - [Claim: Predict \\$ that may be obtained](#) (8 pts)

Noteworthy Achievements

- Finished chat centric sign-up/beta page
- Added French version of sign-up/beta page to reach French audiences and attempt to consider their landlord/tenant problems as well.
- Wrote recruitment posts to gather users on various social media and classifieds channels (Facebook, Kijiji, Craigslist)
- Added functionality to primary bot application allowing it to respond with quick answers found in the FAQ section of Regie du Logement.
- JusticeAI Sign-up page is now live @ <https://procezeus.ca>

Technology, Architecture and Library Changes

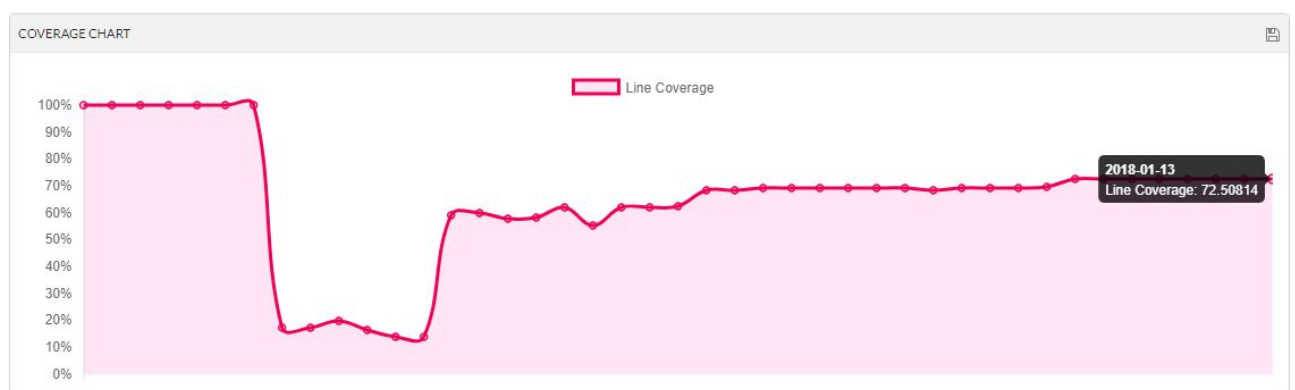
There have been no technology or architecture changes in Iteration 7.

Continuous Integration Processes and Naming/Coding Changes

There have been no changes to the CI processes or coding conventions in Iteration 7.

Unit Tests and Code Coverage

Line coverage after iteration 7 is currently at 72.5%. Added support for testing code that utilizes database functionalities. Therefore, from the next iteration onwards, the line coverage will increase as the database can now be mocked.



Iteration 7 Retrospective

What went well

- The amount of work done was better than what was expected to be done for the holidays
- The vacations helped relax from the usual rhythm

What went less well

1. Those that did not have the issues we haven't helped properly those with issues
2. Too much procrastination
3. We need some form of Wiki for the error troubleshooting we constantly have to go through due to Docker
4. We didn't work on anything important except for the FAQ.
5. Marketing should have been done a while ago. If we can get marketing done before Wednesday
6. FAQ wasn't done as well as we could have. It was done too rushed and as such the results aren't optimum.
7. We are delaying too much with the UI. We need to launch ASAP.
8. CD stopped working 3 weeks ago.
9. Our main README is super out of date.

What we can do to fix it

1. We need to set up help on-the-fly for those events. Possibly screen share with Discord together as soon as we are free to attempt to help teammates. Log the fix inside of the Wiki.
2. This was mainly due to the winter holidays, which will not happen again until the end of the semester.
3. Start writing Troubleshooting in the github wiki.
4. Concentrate future sprints on bringing more “programming value” as this was iterated upon as a “research” project in the first place
5. Not much can be done about this issue other than launching it as quick as possible.
6. Tweak the FAQ as we go through iterations and add more FAQs.
7. Launch ASAP.
8. Improve communications so the rest of the team knows CD is out of date.
9. Update the main README but concentrate on smaller READMEs in individual containers.