Ticketr(North Park Innovations - Take home Assignment)



Code link: https://github.com/vazbloke/ticketr

Video demo link: https://youtu.be/HT4ltiowiSc

Details:

I used Vue.js for the client. Flask (Python based microframework) is used as the backend, which connects to the database (MongoDB). The client communicates with the backend server via API calls to endpoints exposed on the server.

Additional libraries such as vue-chartjs, bootstrap-vue, axios were used.

Instructions to run are mentioned with the code on Github.

Overview of features:

Login screen
Data display (Paginated)
Sort by category (Including date)
Search/Filter by attribute (Intelligently picks between dropdown/text field)
View ticket as a card (All attributes)
Delete ticket
Intuitive charting and basic data analysis.

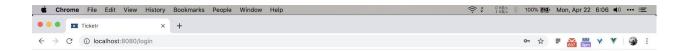
Distribution of time spent:

Task	Time	Details
Reading about Vue	2 hours	Npm documentation, Vue documentation,

principles and structure		Vue directives (v-model, v-bind etc)
Building a basic CRUD app with Vue and Flask	2 hours	Following a tutorial online to populate static data in a Vue app, hands on experience.
Adding database and pagination, APIs	3 hours	Processing JSON files into database, Writing API endpoints to deliver data to the client based on multiple parameters.
Sort and search	2 hours	Adding additional functionality to API endpoints, handling edge cases.
Updating to use Bootstrap-vue elements, Modals	1 hour	Using b-table, implementing pop-up to view data, adding delete functionality.
Login screen and state storing	1 hour 30 minutes	Learning and implementing state management, writing a login screen
Learning and implementing vue-chart.js	3 hours 30 minutes	Chartjs, vue-chartjs documentation, rendering charts or different types
Content and text for charts	2 hours	Additional endpoints to get data formatted to requirements, choosing visual representation
Icons, styling and alignment	3 hours 30 minutes	Styling elements of all pages, finding a suitable favicon, picking a color scheme, modifying existing bootstrap styles with hex colors, overall aesthetic coherence
Refactoring and code cleanup	1 hour 30 minutes	Removing duplicate code, optimizing functions
Misc bug fixes	2 hours	Bug fixes throughout the project, optimising API endpoint.
Total	24 hours	

The above tasks were not worked on continuously, hence the time taken listed are approximate.

Screenshots:

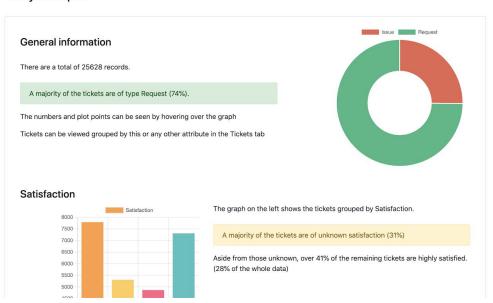


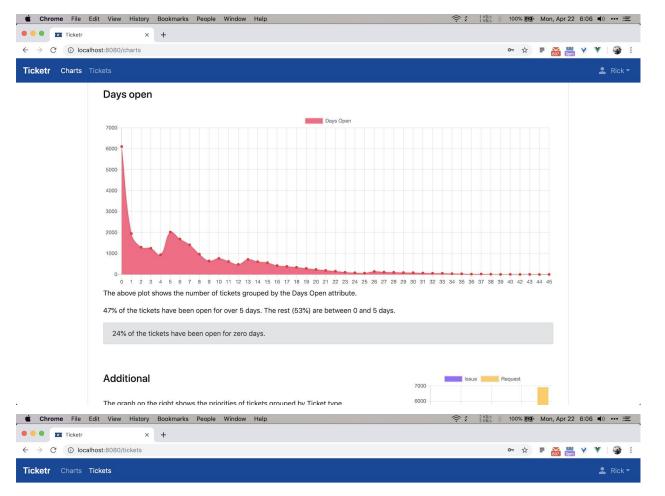
Ticketr



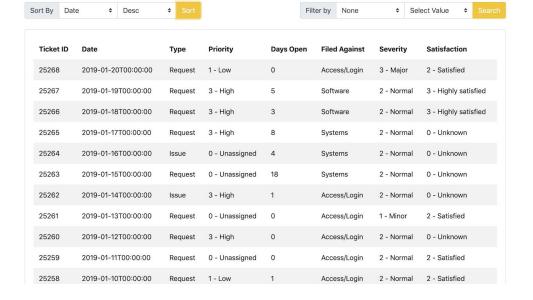


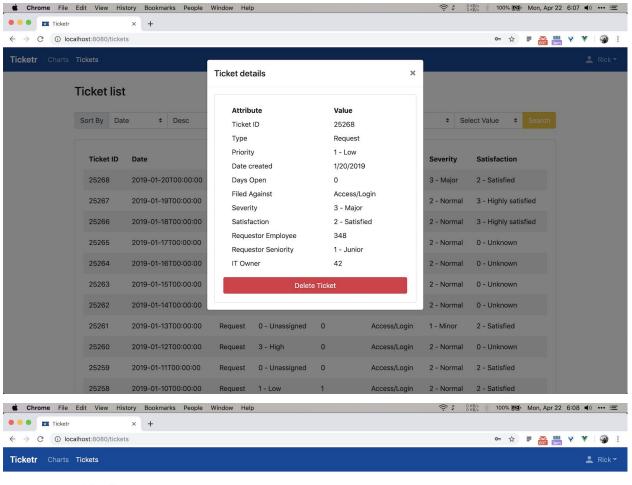
Analytics report





Ticket list





Ticket list

