School of Computing

Year 4 Project User Manual

Project Title: **Q&A Extraction from Factual Text**
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Stream: **CASE4**

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Completion Date: 28/04/2019

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1. Installation

As this is running on an AWS instance, it can be accessed at anytime from *extractor.thesvinti.com.*

Building and running the project is **not necessary,** nonetheless, is made very simple. Once it the project is cloned from git, enter the root of the project in your terminal of choice. I have made it very simple to build and run the project through scripts to automate the process. Simply run the scripts, *autobuild-extractor* and afterwards, *autorun-extractor* as shown below in a single command:

Note, this project can only be build on a linux operating system such as Ubuntu.

```
sudo ./autobuild-containers && sudo ./autorun-containers
```

After building and running, one can now access the project locally, open a browser and input **localhost:8000** in the url bar, which will bring you to the project.

2. User Guide and 3. Screenshots
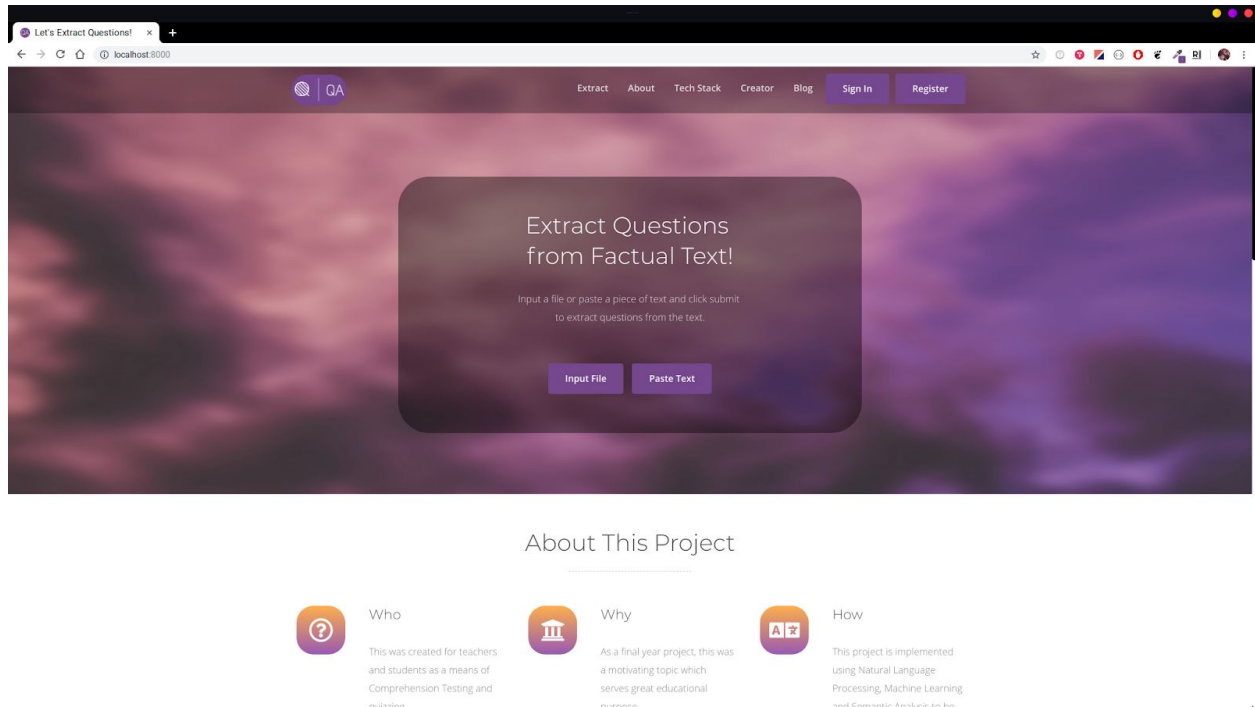
User not logged in

Figure 1 - Main page, user not logged in

Once the main page is accessed, the user can immediately begin to extract questions from text, either by inputting a txt file with the text by clicking 'File Input' or directly pasting text into the box that appears when clicking 'Paste Text'. These buttons are available to all users, whether logged in or not.
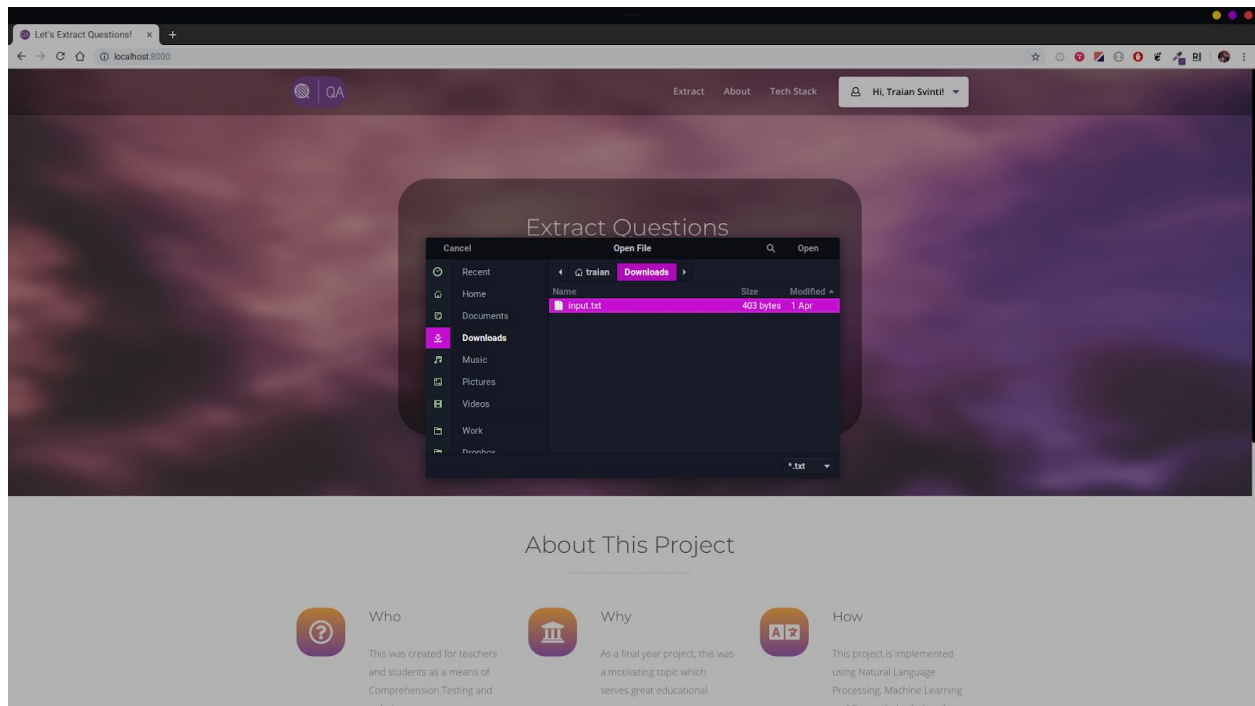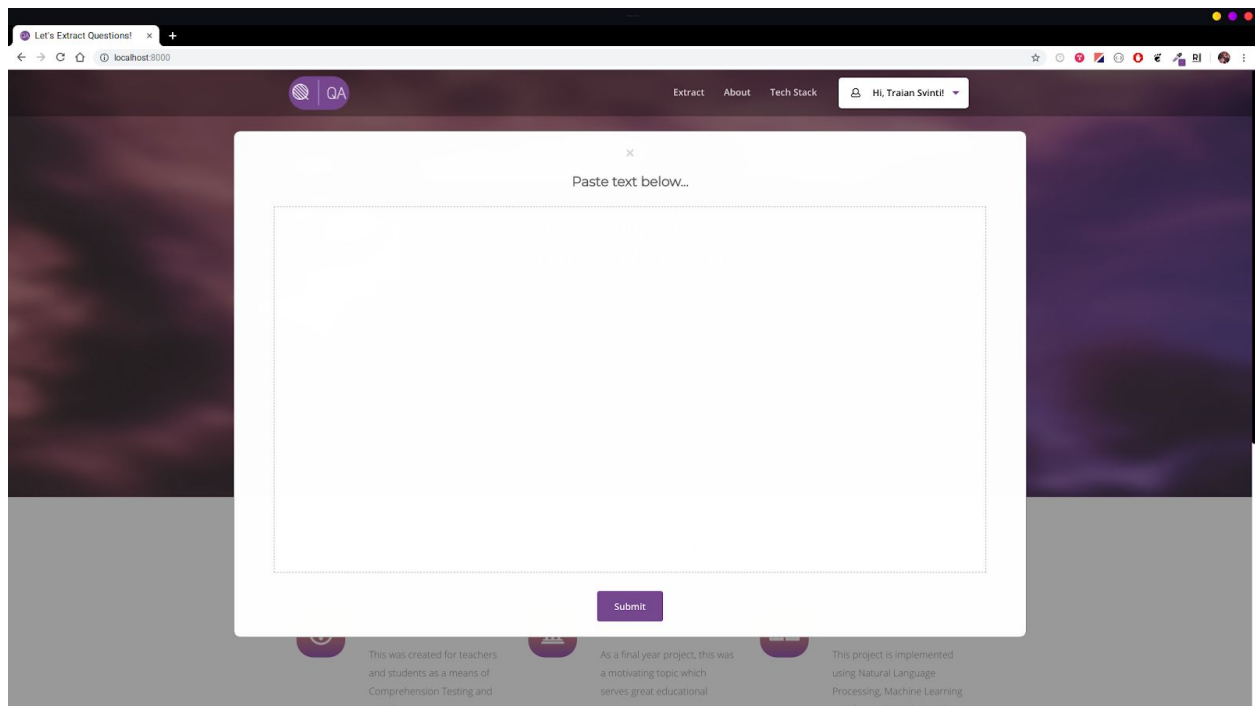
Figure 2 - File Input

Figure 3 - Text Input through Paste

The output will be displayed in less than a second and appears under the top content. If the user is not logged in, they will only have the possibility of downloading externally in a txt file.

Figure 4 - Question output not logged in

The user can register by clicking 'Register' in the top right corner of the page to create an account and will be greeted with the below page. All fields need to be filled out in the correct format to successfully create an account.
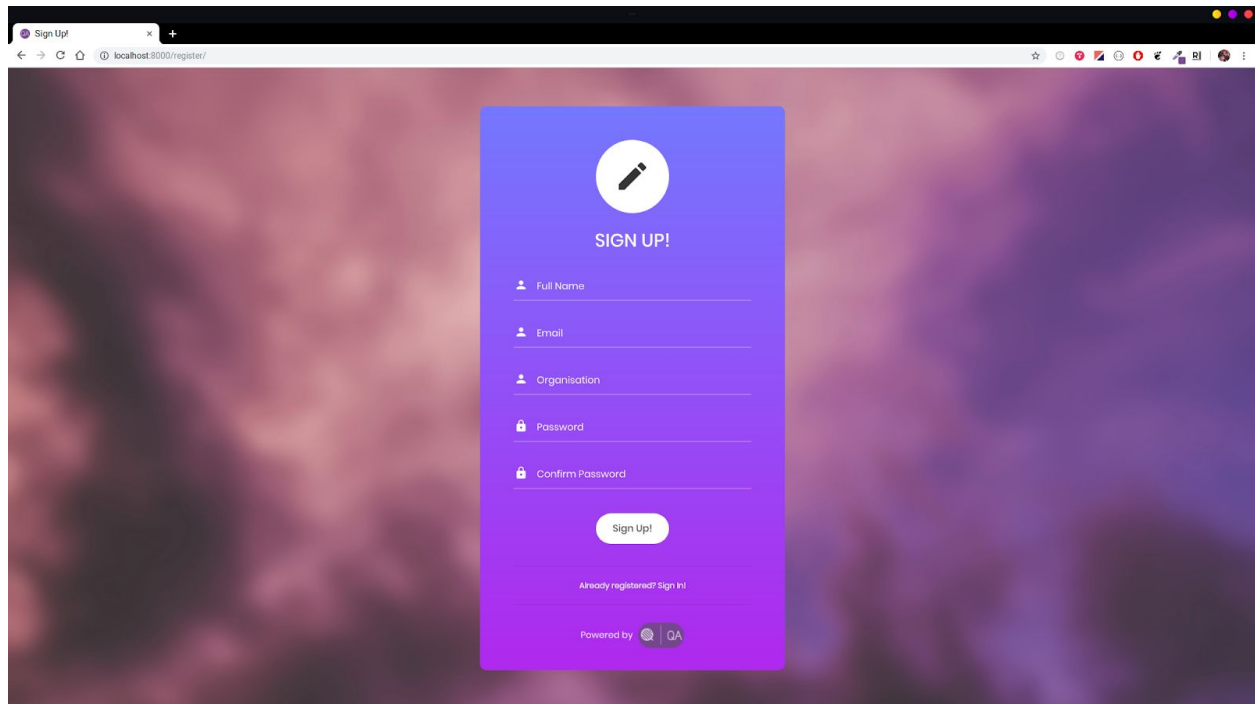

Figure 5 - Register

Once an account is created, the user will automatically be logged in, the user can also login using the 'Login' button beside register. They will be greeted with this page where the email and password is needed:
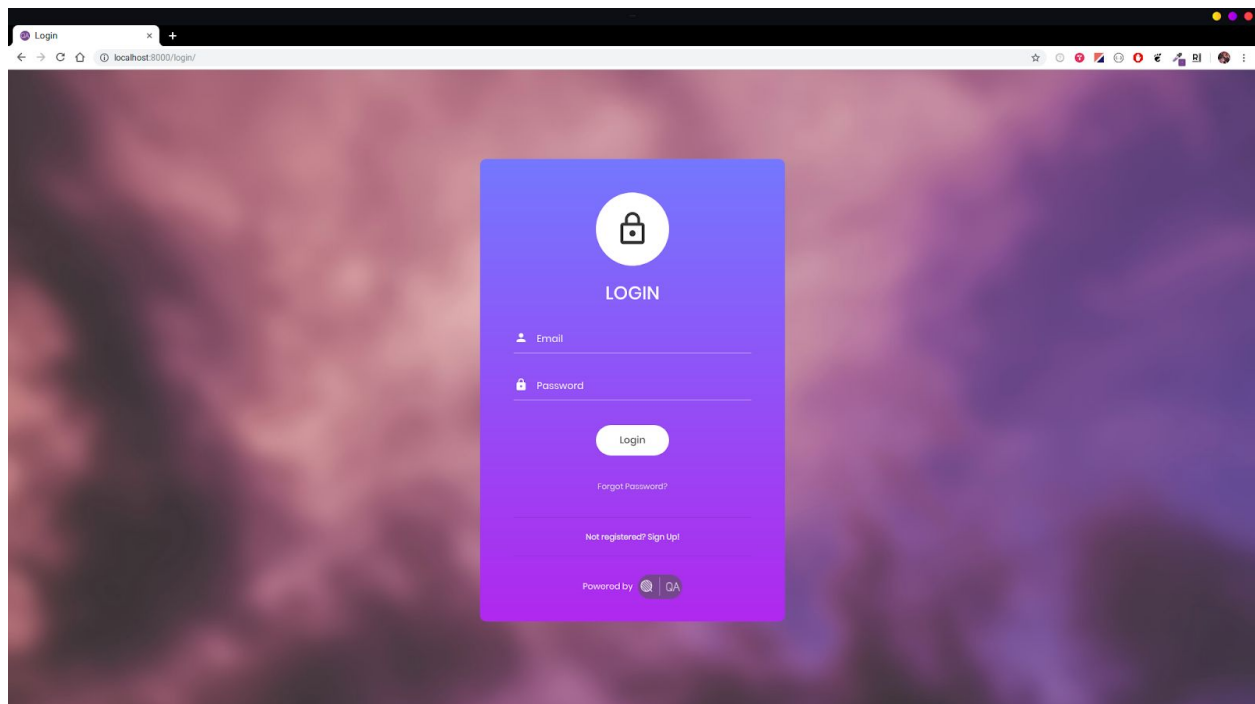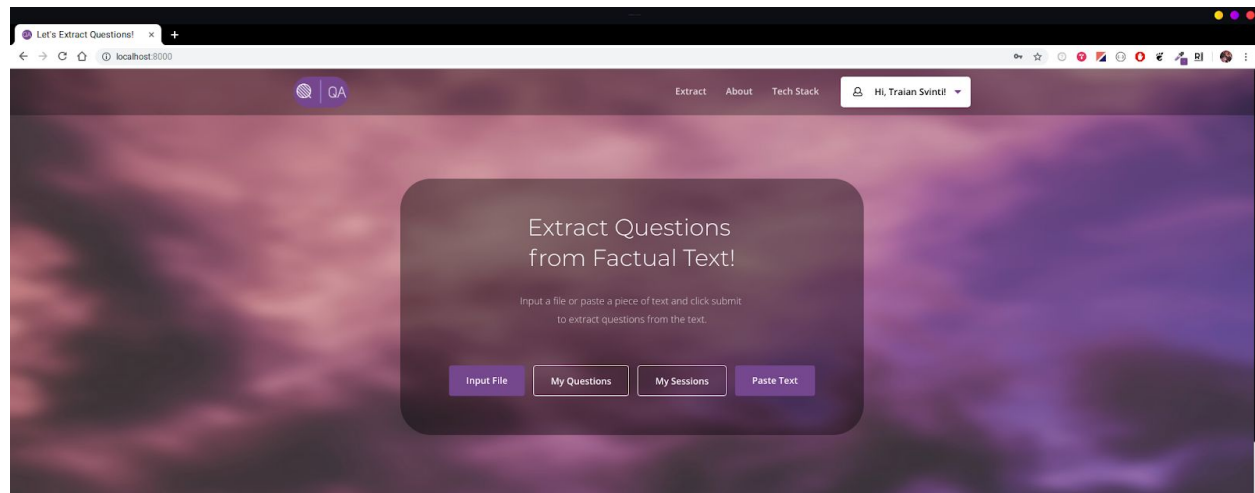

Figure 6 - Login

Logged in user

Figure 7 - User is logged in

Once the user is logged in, they are presented with more options. Let's start with extracting text again. If the user is logged in, they can **select** which questions they want to keep and download the questions externally or also save the questions to the profile under a title.
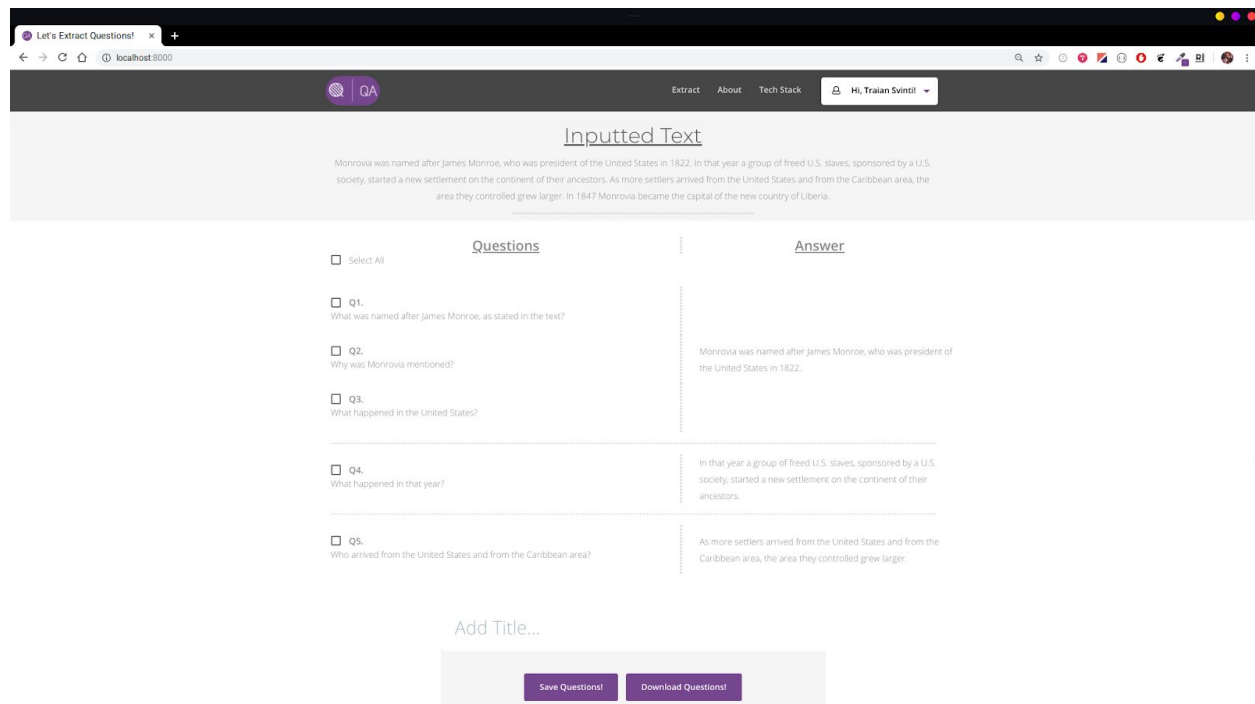

Figure 8 - Extractor output of logged in user

If the user is logged in, two other buttons are available. One button, "My Questions", would present all saved questions showing title and creation date. Saved questions and answers are accessible from here. From this section, users would have the option to download the questions and answers externally or create a session.
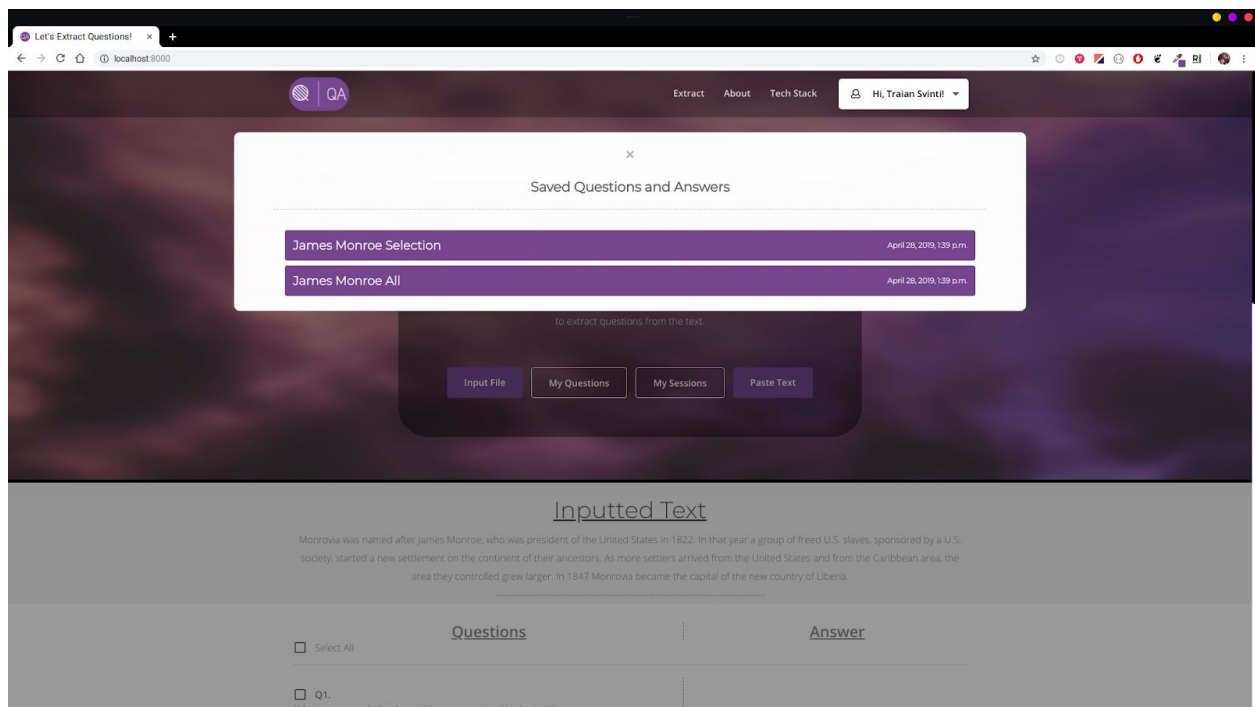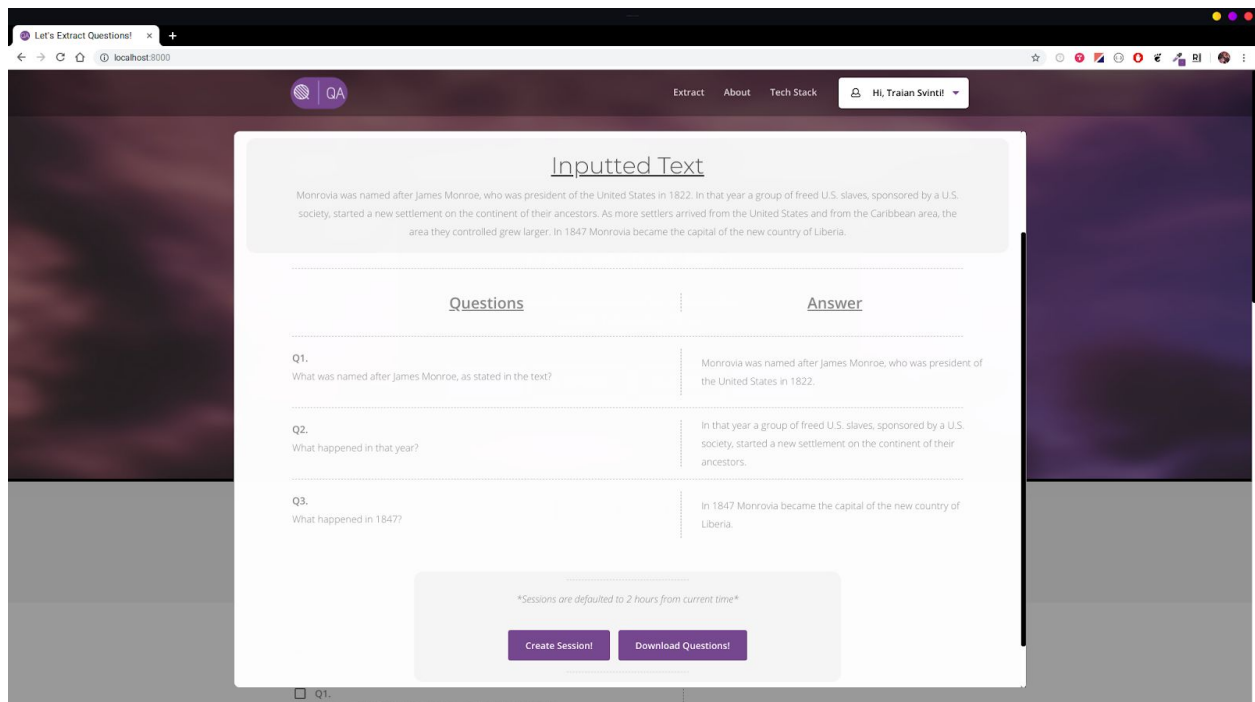

Figure 9 - My Questions

Figure 10 - Selected "James Monroe Selection" from "My Questions"

Once a session is created, a unique link is generated. These sessions are defaulted to 2 hours, once completed, is no longer accessible to be answered.
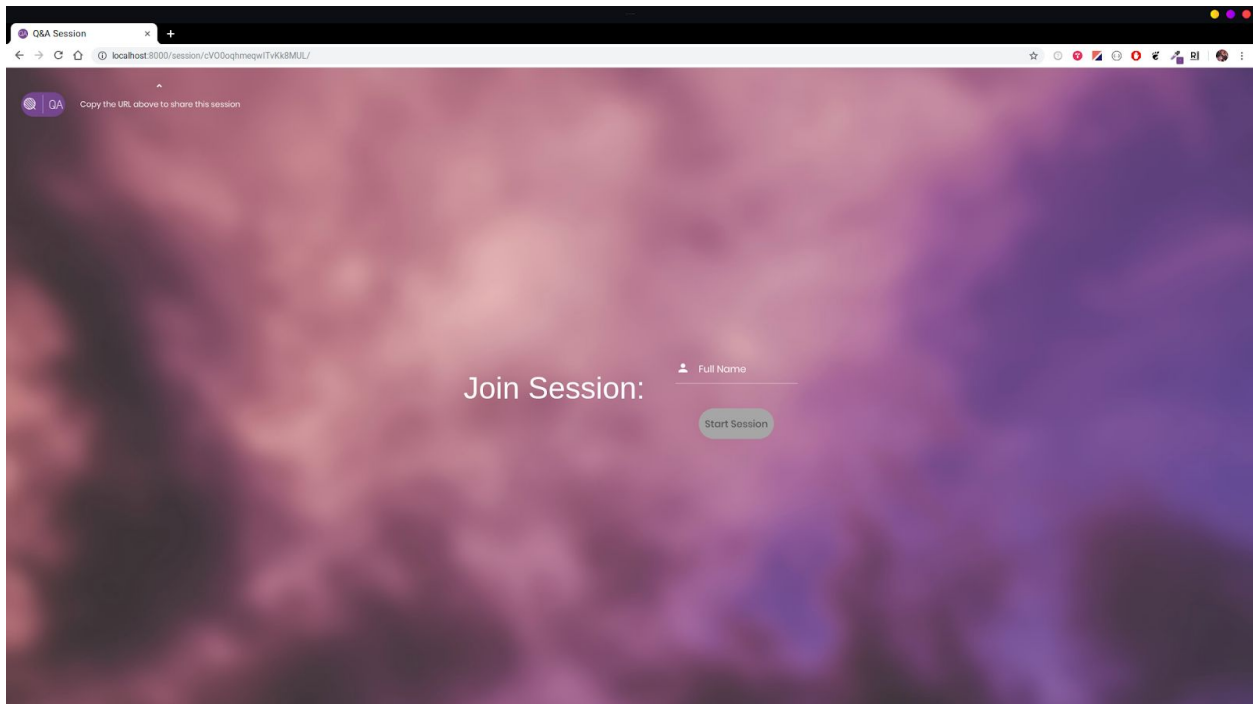

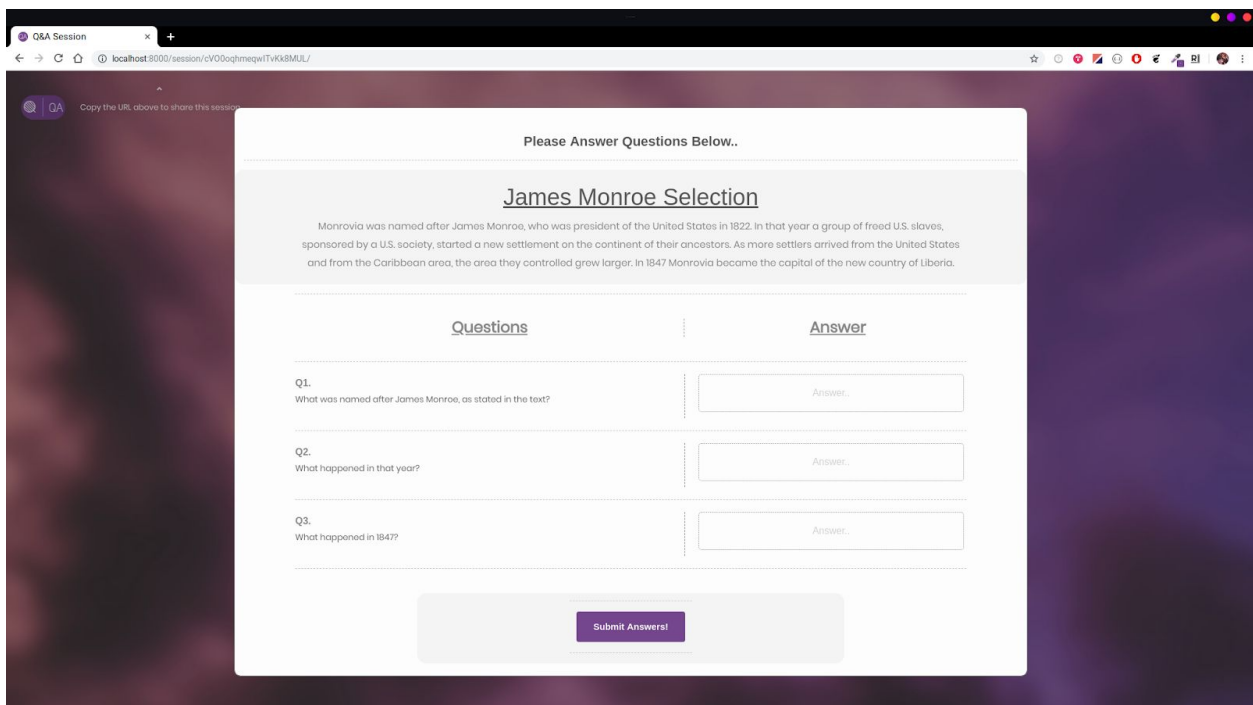*Figure 11 - "Create Session" selected from "My Questions"*

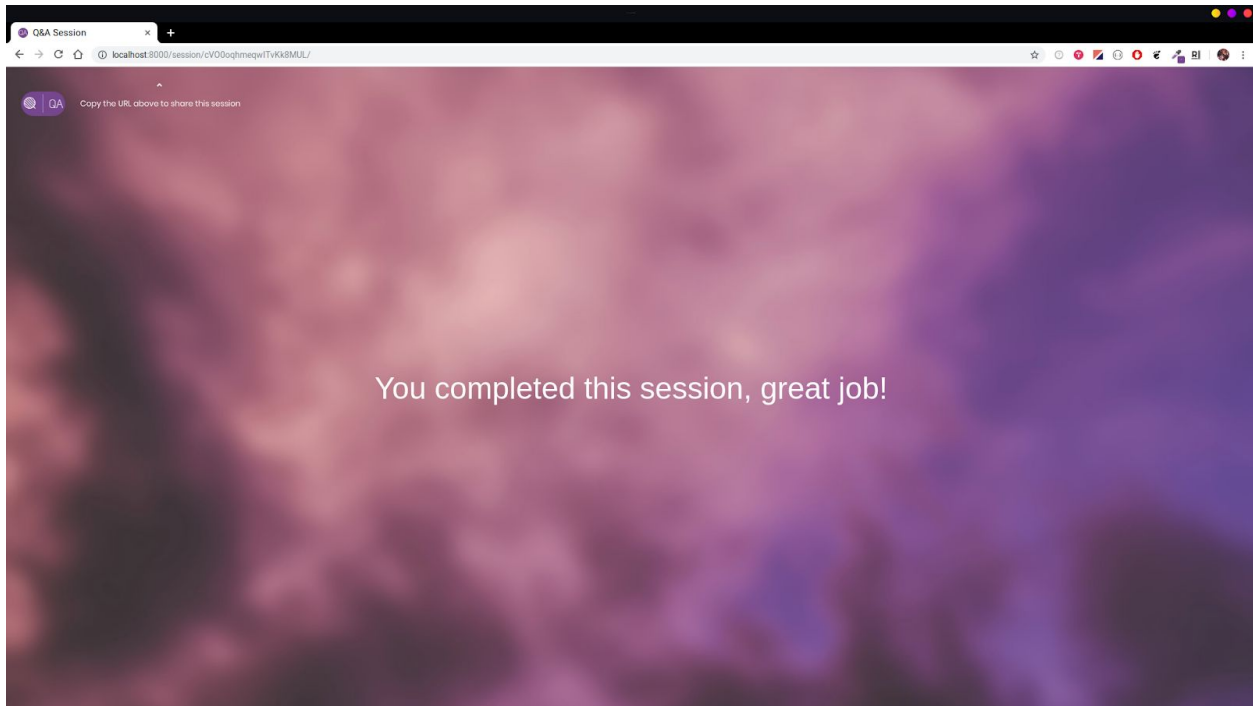*Figure 12 - Session answering from user side*

Figure 13 - Session Completion

The other button available for a logged in user is the "My Sessions" button. Here the user can view their created sessions. This will show the session title, which is also the title of the extracted questions and answers of the session, it will also show if the session is active and when the session was created. Clicking the session, whether active or completed, will display all the users that answered the questions, with their answers and also an estimated accuracy score of the overall session using cosine similarity of the vectorized words in the answer provided.
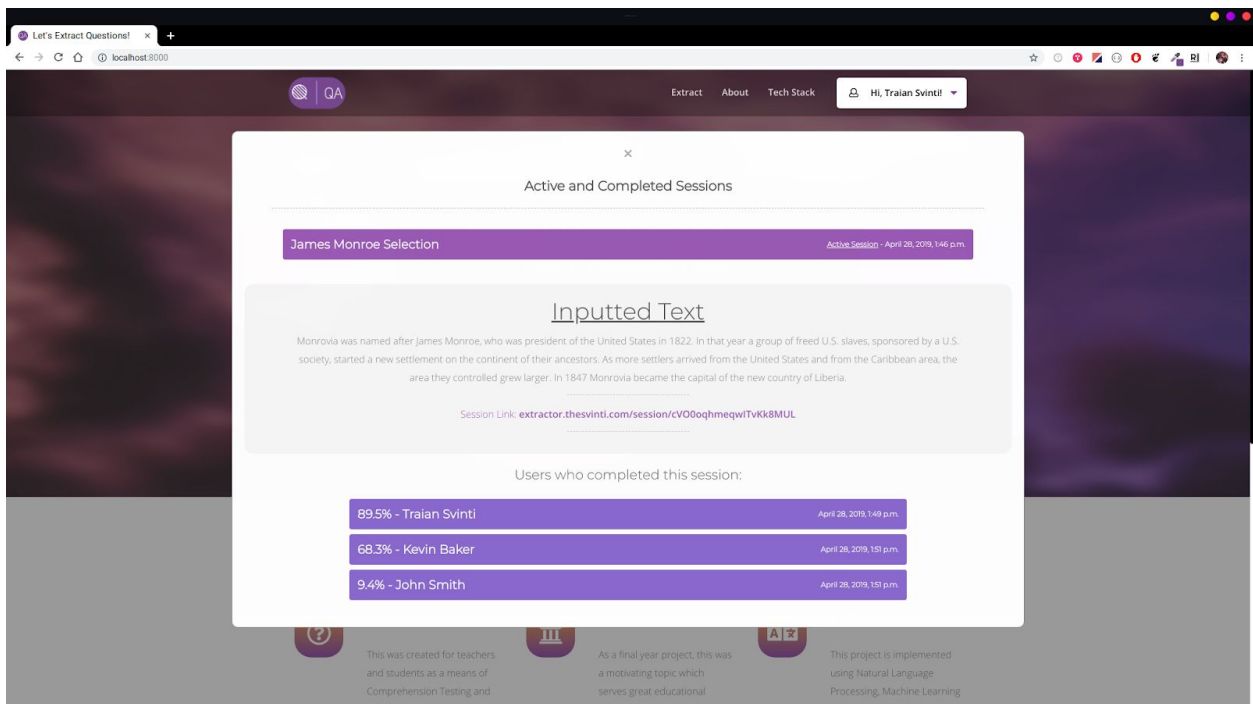

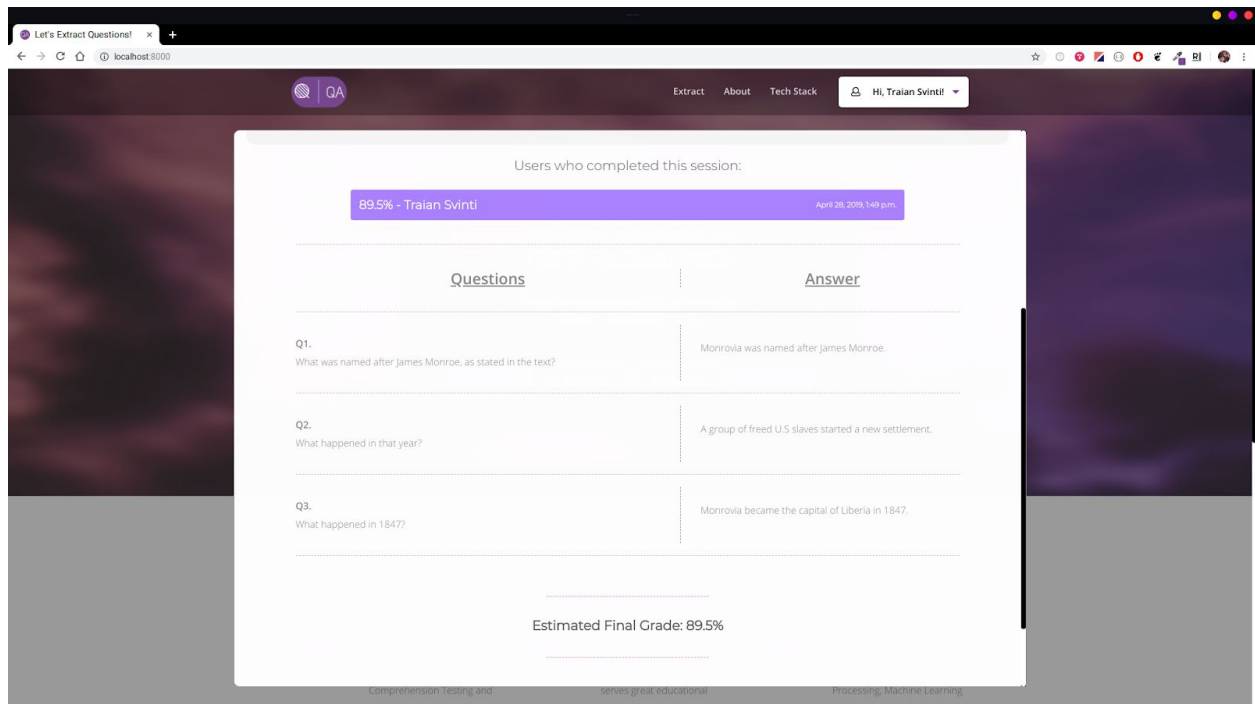*Figure 14 - Logged in user viewing completed sessions*

Figure 15 - Viewing of completed session answers
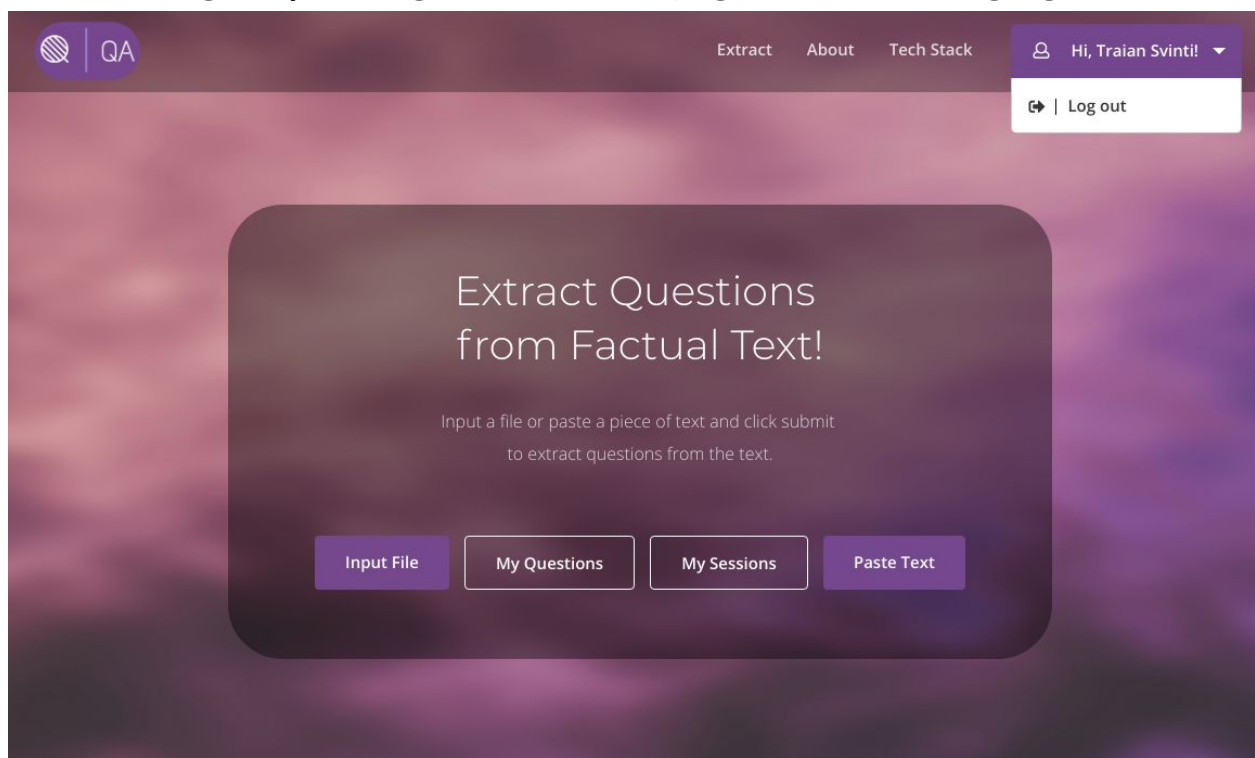
The user can log out by selecting the name in the top right corner and clicking 'logout'.

Figure 16 - Logout dropdown