

## **High level Documentation of the RapidFort Internship Project Submission**

**NOTE:** To run the project locally, change the database to SQLite3 in settings.py and make migrations. Just uncomment the SQLite3 and comment out the online service (PostgreSQL).

### **Technical Stack:**

- Python (Django and other system level libraries)
- HTML/CSS/JavaScript (For webpages and checkboxes)
- PostgreSQL (AIVEN Online PostgreSQL Hosting Database)
- Docker (Containerization)
- AWS (Deployment) Link: <http://52.66.46.92:8080/>

### **Description:**

- Users can convert files like, but not limited to, DOCX to a more portable and a lightweight format, PDF.
- Users can also retrieve their previous conversions in-case they lose a copy of their PDF.
- Users must login and then they can convert their files and have a password encryption.
- This encryption allows users to keep their pdfs safe.

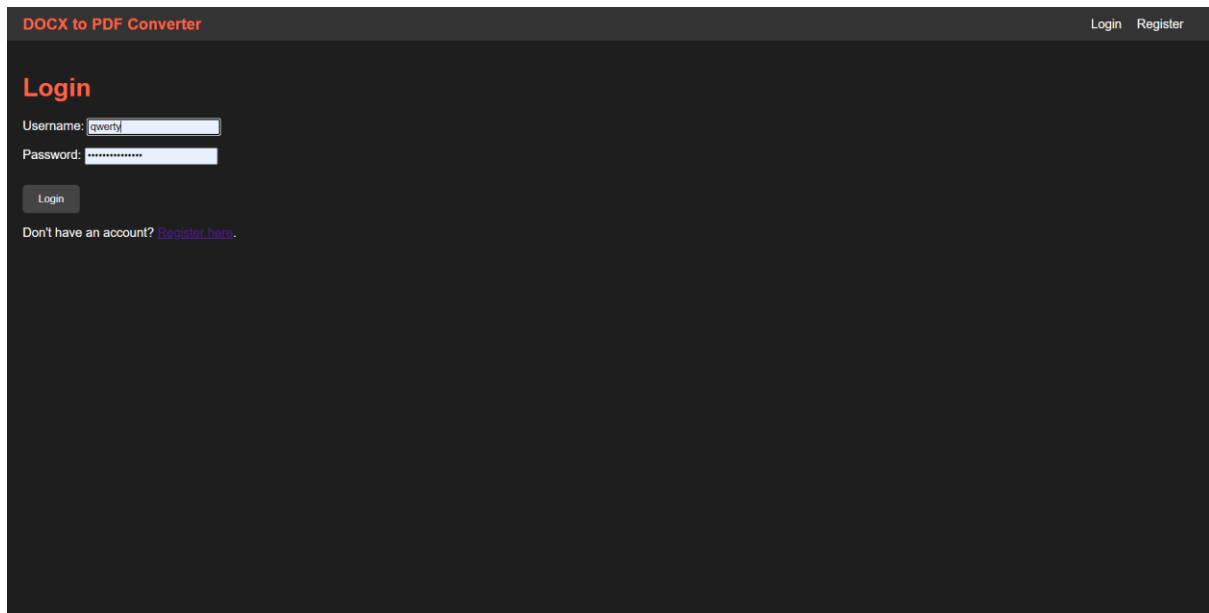
### **Technical Description:**

- API Endpoints:
  - login/ - for logging in.
  - register/ - for a new user signup.
  - upload/ - for uploading the files.
  - history/ - for previous downloads of the user.
  - logout/ - for logging out of the service.
- Services used:
  - Online PostgreSQL database by AIVEN for free hosting of PostgreSQL database
  - Docker – used for containerization
  - It is a microservices architecture.
- Programming:
  - Python (Django) is used for managing authentication, file uploading, conversion and database manipulation.

HTML/CSS/JavaScript were used for the frontend which involved components-based design using Django templates.

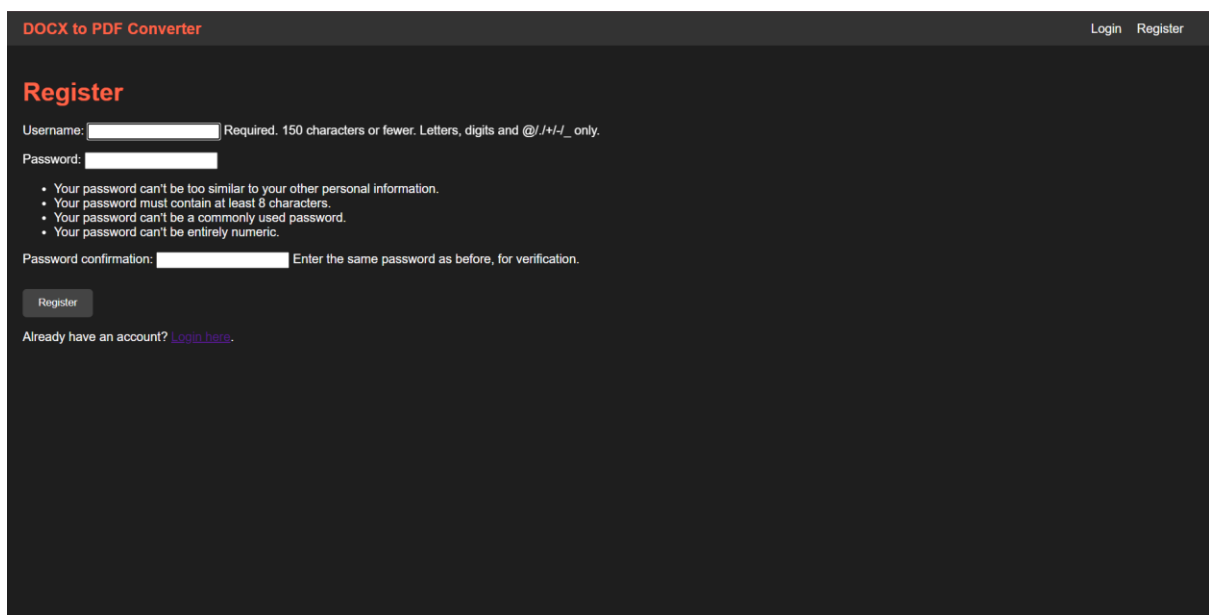
- Docker – used for containerization.

### **Images of the project:**



The screenshot shows the 'Login' page of a web application titled 'DOCX to PDF Converter'. The page has a dark background. At the top right, there are links for 'Login' and 'Register'. The main heading is 'Login' in orange. Below it, there are input fields for 'Username' (containing 'qwerty') and 'Password' (masked with dots). A 'Login' button is positioned below the password field. At the bottom, there is a link that says 'Don't have an account? [Register here.](#)'.

Figure 1 Login Page



The screenshot shows the 'Register' page of the same web application. The heading is 'Register' in orange. It includes input fields for 'Username' and 'Password'. The 'Username' field has a note: 'Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.' Below the 'Password' field, there is a list of password requirements: 'Your password can't be too similar to your other personal information.', 'Your password must contain at least 8 characters.', 'Your password can't be a commonly used password.', and 'Your password can't be entirely numeric.' There is also a 'Password confirmation' field with a note: 'Enter the same password as before, for verification.' A 'Register' button is located below the confirmation field. At the bottom, there is a link that says 'Already have an account? [Login here.](#)'.

Figure 2 Register Page

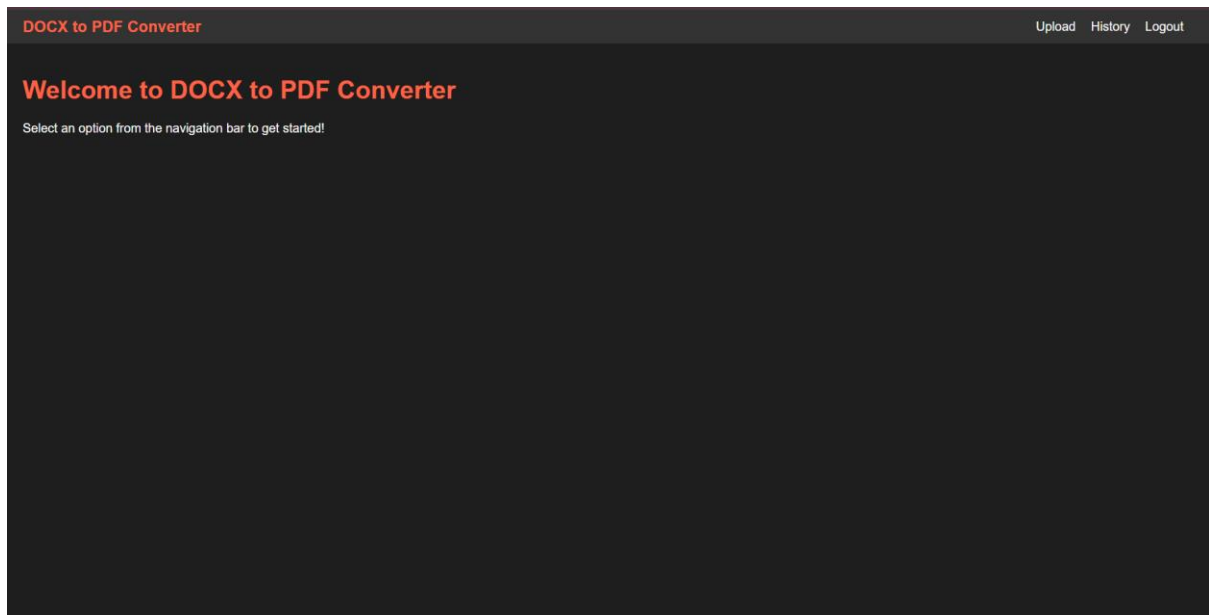


Figure 3 Homepage

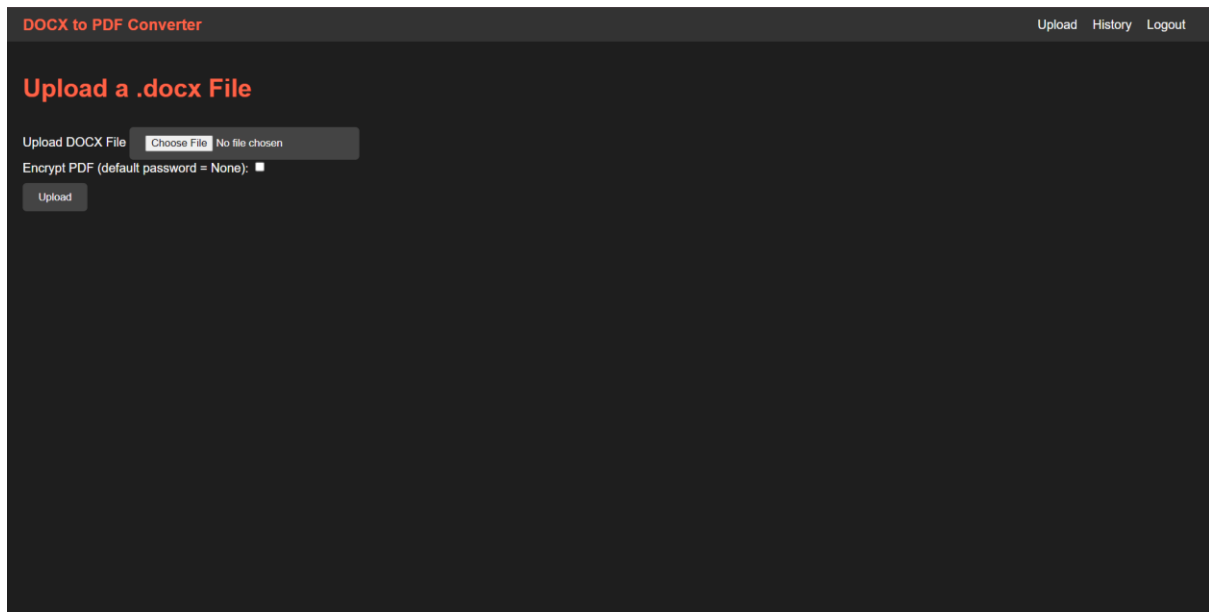


Figure 4 Upload Page

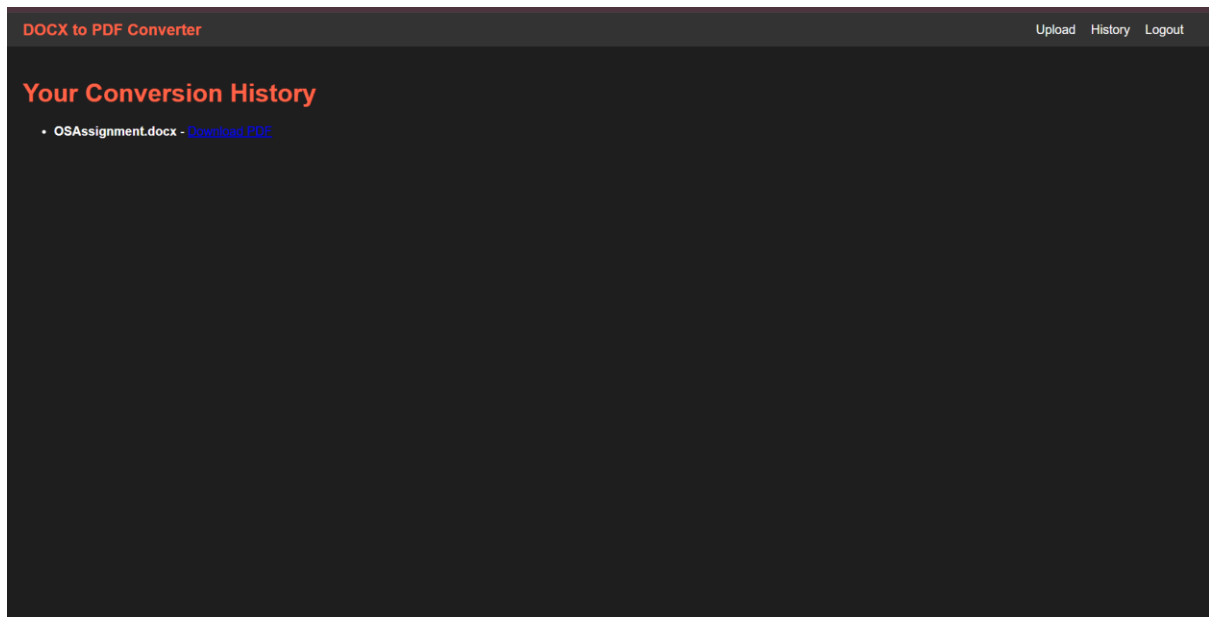


Figure 5 History Page

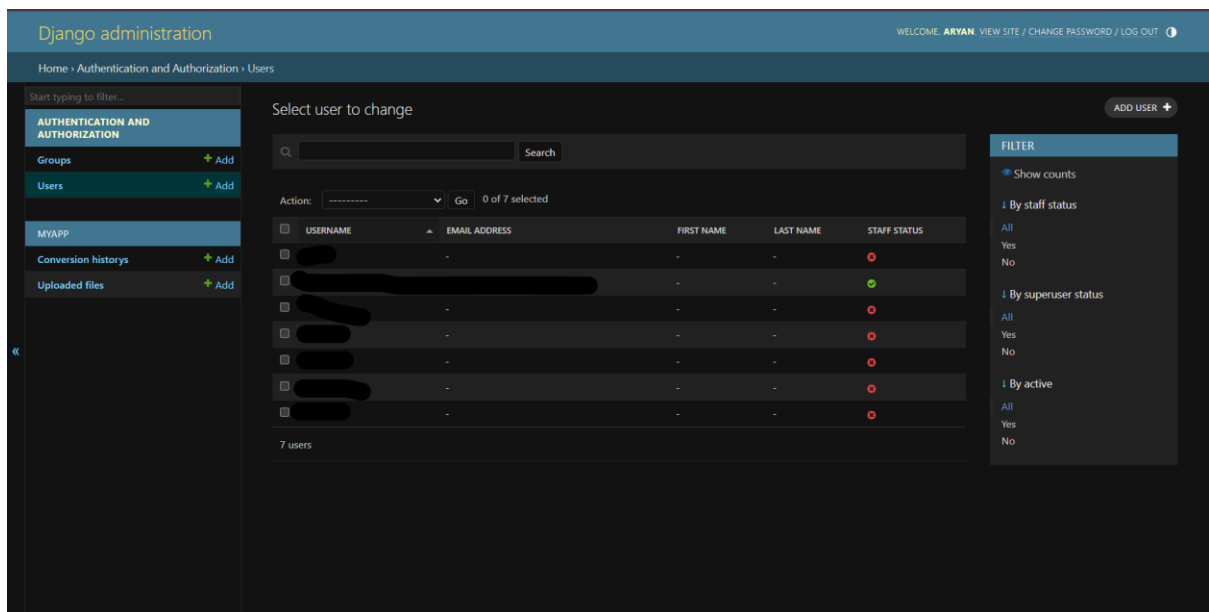


Figure 6 Admin Panel