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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)

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:

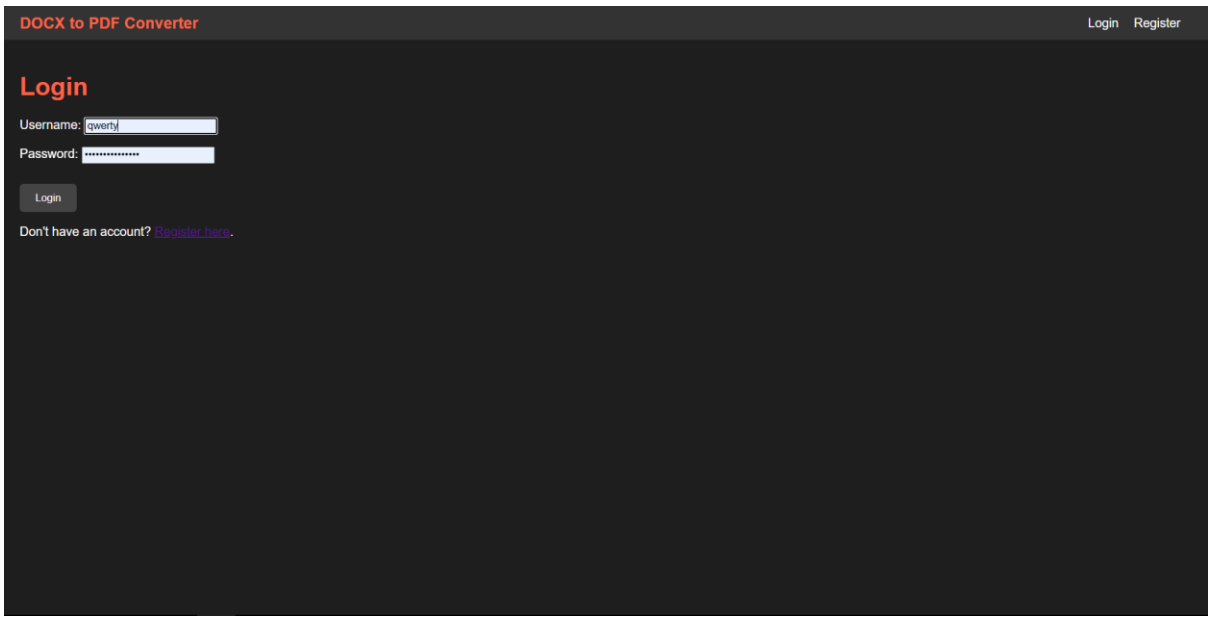

Figure 1 Login Page

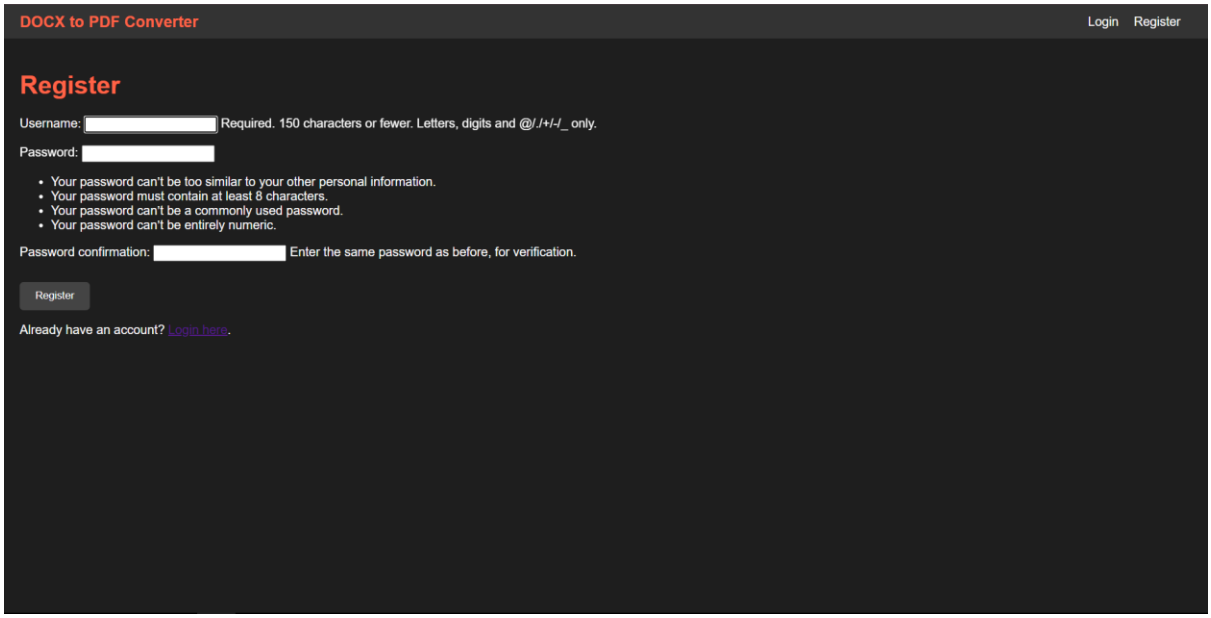

Figure 2 Register Page

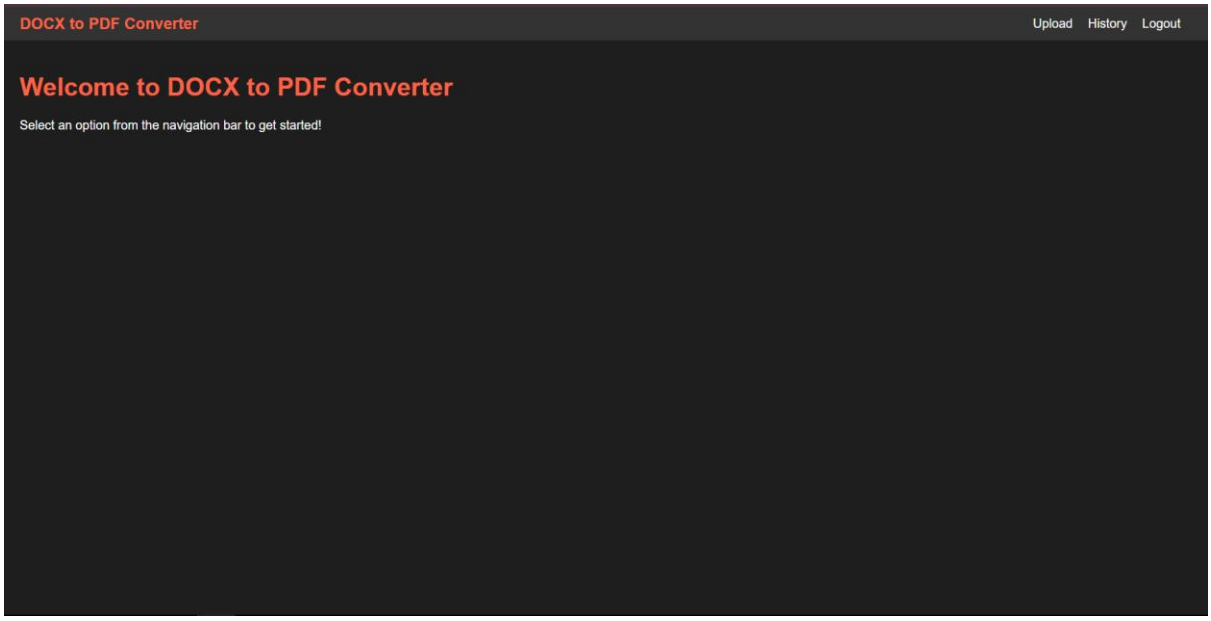

Figure 3 Homepage

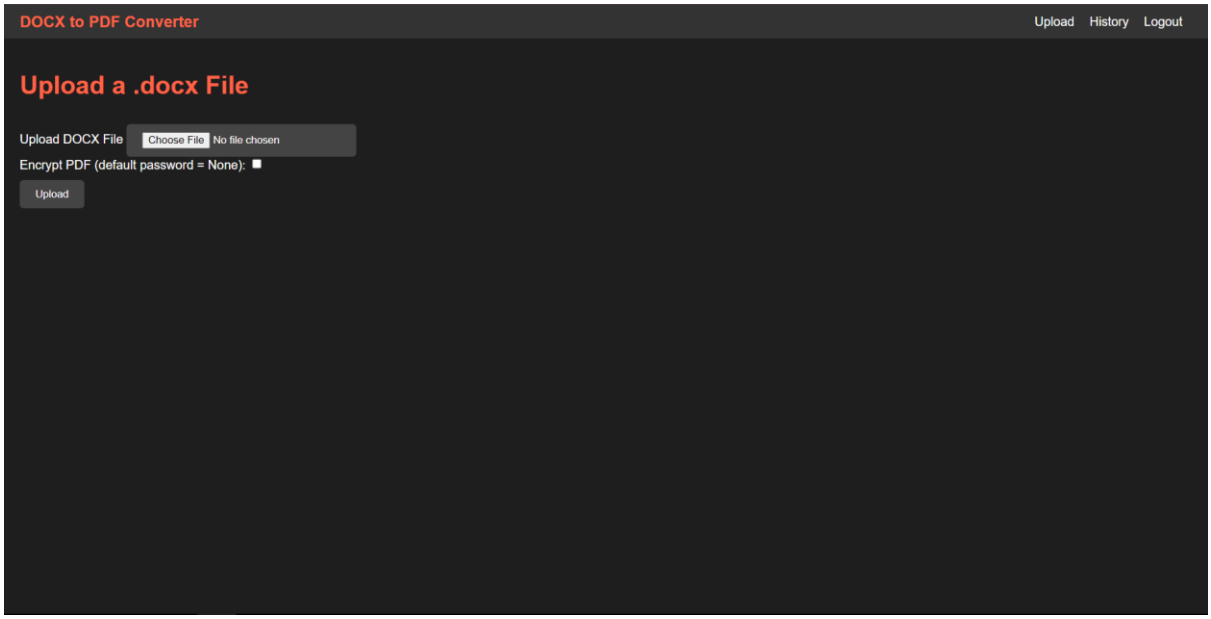

Figure 4 Upload Page

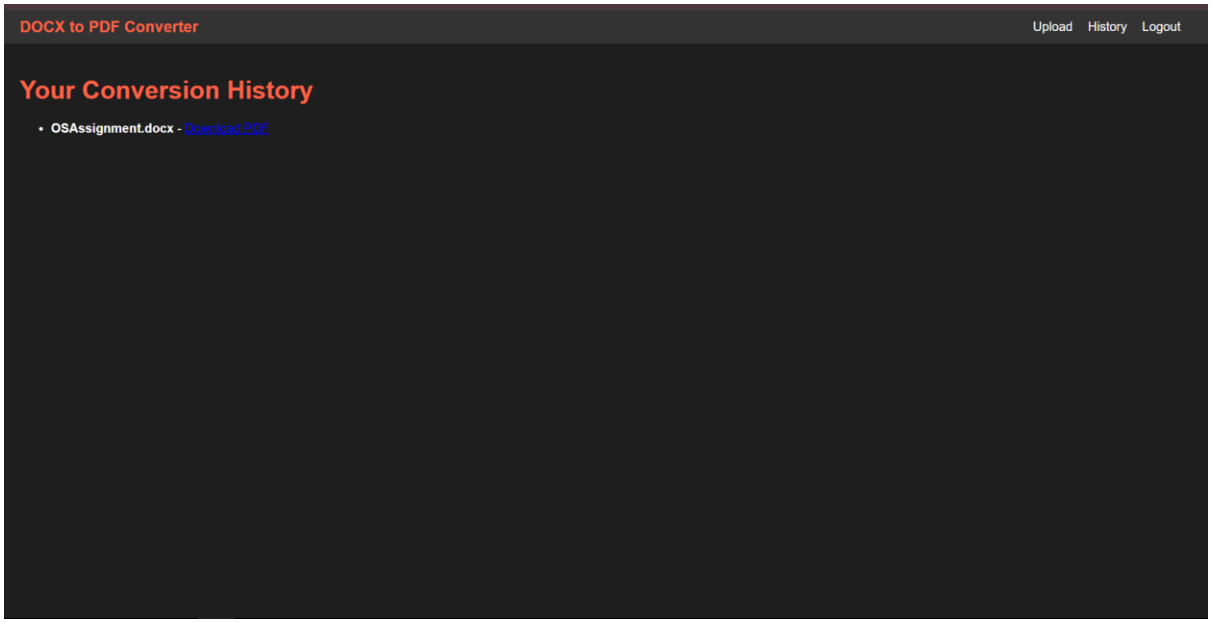

Figure 5 History Page