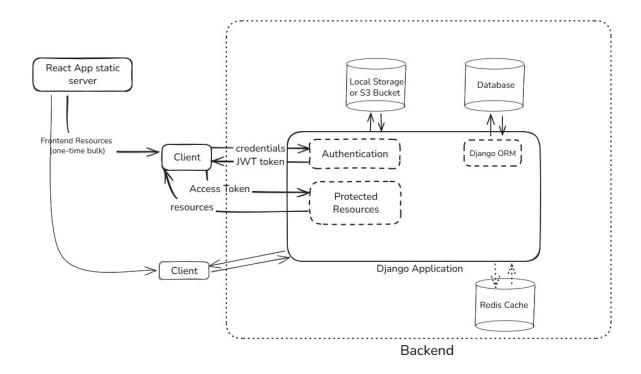
Tech Stack and Architecture Choice:



ARCHITECTURAL DIAGRAM

- Frameworks used Django Rest Framework for backend and React.JS for frontend.
 - React is a go-to choice for SPA.
 - Django has good in-built support for authentication, caching and ORM to handle SQL data
 - SQLite DB is used for a light weight DB server
- Data Flow
 - Register a new account and get your username.
 - Login with username and password
 - Choose your role Patient or Clinician
 - Patient uploads a pdf file and additional information related to the file. The file is saved to local storage on the server side. The metadata is stored into file-metadata table along with unique id and file path.
 - When a patient or clinician chooses to download a file, a call is made to the file-metadata table with file id parameter and the file is sent in the response.
 - Patient can delete the uploaded documents

API endpoints

- o POST /login
- POST /register
- POST /register-patient
- o POST /register-clinician
- o GET /users/:username
- o GET /patients
- GET /patients/:id
- o GET /clinicians
- GET /clinicians/:id
- POST /patients/:id/documents/upload
- o GET /patients/:id/documents/:id
- DELETE /patients/:id/documents/:id
- GET /patients/:id/documents
- o GET /patients/:id/documents/:id/download

Key Considerations

- Scalable Open to scale
- o Files are stored locally. Can be extended to use S3 bucket.
- Security Authorization and Permissions are validated before sending the API reponse.