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SOFTWARE LLC

Coding Assignment

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REQUIREMENTS

- Build a web application for viewing information about Projects
- A Project has a name and a start date
- Each Project has multiple Users and Files associated with it
- Each User may be related to multiple Projects
- Each File can only be related to a single Project
- A User has a name and an email address
- A File has a name and a file type
- The main page of the application will be a table of all available Projects. This table will have a column for name, a column for start date, and a column that contains a button to navigate to the Project's details page.
- The details page for a Project will have a tab for Users and a tab for Files. Each of these tabs will have a table that contains a table that shows all the Users or Files that are associated with the Project.
- The Users table will have a column for name and a column for email address
- The Files table will have a column for name and a column for file type
- The details page will have a back button to navigate back to the main page
- All tables will have server-side pagination, with sorting and filtering on each column
- The solution will use the technology stack specified below

TECHNOLOGY STACK

- Front End
 - React
 - Bootstrap (<https://getbootstrap.com/>)
 - react-router (<https://reacttraining.com/react-router/>)
 - react-bootstrap-table2 (<https://github.com/react-bootstrap-table/react-bootstrap-table2>)
- Services
 - Python
 - Flask (<http://flask.palletsprojects.com/en/1.1.x/>)
 - SQLAlchemy (<https://www.sqlalchemy.org/>)
- Database
 - Postgres

DELIVERABLES

- Source code for React front-end
- Source code for Python web services
- SQL scripts for database schema
- SQL scripts to populate the database and demonstrate that all requirements have been met
- A git repository containing all the above deliverables